

Wast 1500est ph misson 12. Mr. 1300

BFI DARROW

The site has been closed and is being maintained with additional cover installed as needed. BFI plans to install monitoring wells as requested by the Department.

BFI Darrow

This site is a strip of land running from the river road east. It consists of 52 acres, 20 acres of which are unused. This site was operated by 3FI from 1972 - 1979 at which time it was closed under a closure plan with the Department of Health and Human Resources. The site was operated prior to 3FI obtaining it by U. T. Alexander from 1966 - 1972. Styrene tar was disposed of here by both Mr. Alexander and 3FI from 1968 - 1973. There were five ponds used for this material. The styrene was removed and sold to JocOil of Alvin, Texas in 1978 and 1979 for reprocessing and the ponds were filled with dry trash and soil.

Attazine sludge was disposed of in another area of the site in 1977. This area also had dry trash incorporated to help stabalize this sludge. This sludge and trash was covered with six feet of dirt.

The rest of the site was used for disposal of general industrial waste both hazardous and nonhazardous.

There is one area of the site that was used by Mr. Alexander. There is a ditch on the south side of this area that has a deposit on the surface of the water with an odor resembling styrene. Also the fence along this side is down. BFI intends to cover this ditch and build a new fence inside their present line.

Generally the site is well vegitated and maintained. There are some areas where vegitation is slow corming and a few low areas where water temporarily stands. Fill is routinely brought on site to fill these low areas as they develop.

Monitoring wells are to be installed.

MEMORANDUM

TO: PETER M. ARNOW, CHIEF, ENVIRONMENTAL ENFORCEMENT

FROM: WILLIAM A. FONTENOT, ENVIRONMENTAL SPECIALIST

DATE: SEPTEMBER 3, 1982

RE: BFI-DARROW

According to the Department of Natural Resources, this site was operated by Mr. U. T. Alexander from 1968 to 1972 and by Browning Ferris Industries (BFI) from 1972 to 1979. This was a hazardous waste and solid waste disposal operation on a 52 acre strip of land approximately 1/2 mile south of the Inger Oil Site on the river road in Ascension Parish.

In 1979, BFI closed the site under a plan which was approved by the Department of Health and Human Resources. Since that time the Department of Natural Resources has reported that the site has been properly cleaned up and closed but that BFI had not yet installed monitoring wells as stated in the closure plan. (See attached report of April 1, 1981 prepared by DNR)

On February 17, 1982 I walked over most of the site.

Numerous cattle were grazing on the site and in a few places the earthen cap of the various burial cells had been worn down as much as a foot where cattle paths were present. There was also some erosion on the edge of the caps where vegitation was not present.

Standing water covered much of the site as it was difficult to walk on the cap without getting my boots wet.

A chemical odor (somewhat like styrene) was present on much of the site and a dark liquid was flowing out of the cap near the northern fence line.

There were some areas where a plastic or tar like material had penetrated the cap and seemed to have hardened on the surface. Vegitation was not growing in the areas around this material.

No monitoring wells were observed on the site.

Mr. Peter M. Arnow Page 2 September 3, 1982

On August 19, 1982 I returned to the site.

There were no cattle on the site and in some places the vegitation was more than six (6) feet tall. Erosion of the cap was worse than on my previous trip and in some areas waste material had become uncovered.

Standing water was present on some areas and algae was present in many areas where water had recently been standing. A patch of cattails were growing on the cap which indicates that water is staying on the cap for considerable periods of time.

In numerous places on the cap vegitation was limited to a very short grass or bare ground which seems to indicate that the taller vegitation is unable to establish in these areas.

The chemical odors were stronger than on my previous visit and a small spring was flowing out the northeast side of the cap.

No monitoring wells were observed on the site.

On both trips spent shotgun shells were found in several places on the site indicating that someone is either using the site for target practice or hunting.

There are no signs on the site to warn people that this is a hazardous waste site and there is a small barbed wire fence on the north side of the site. Entrance to the site is fairly easy since the gate on the north side is only secured by a rope. Two young boys who live just south of the site have been opening the front gate and fishing in ponds on the site.

Analysis of two soil/sludge samples taken at the BFI-Darrow site on February 17, 1982 indicate the following hazardous wastes were present:

Mr. Peter M. Arnow Page 3 September 3, 1982

	North Side ng/g (PPB)	East Side Ag/g (PPB)
Phenanthrene	106	44
Dichlorobenzene	45	92
Hexachlorobutadiene	19	184
Hexachlorobenzene	1,883	5,217
Atrazine	682	2,119
Tolylene diamine isomer	8,455	
Diethylterephtalate		11,003

The sample on the North Side was taken from a leachate near the fence line and the sample on the East Side was taken from the ditch which handles most of the surface drainage from the site.

According to DNR Atrazine sludge was disposed of at the site in 1977.

In 1973 some 15,000 cattle, suspected of hexachlorobenzene contamination were quarantined after hexachlorobenzene infected cattle were found in a herd near the BFI dump site. (see attached report by the Surgeon General to the U.S. Senate Committee on Environment and Public Works).

WAF/cl

enclosure

Kennington Richard Healy

March 6, 1973

Mr. Charles Brewer Foster Grant Chemical Co., Inc. P. O. Box 73875 Eaton Rouge, Louisiana

Dear Mr. Brewer,

I am at this time compelled to cancel our contract, BR13790, between Foster Grant Chemical Co., Inc and Industrial Waste Disposal.

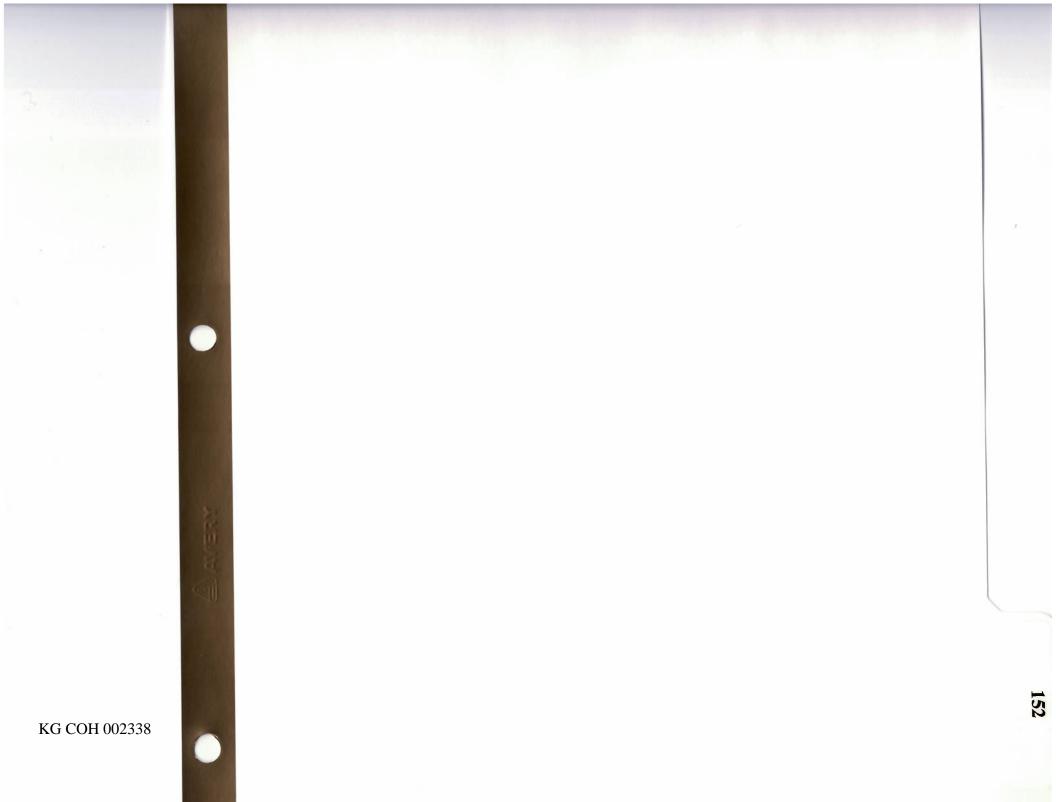
As we both know, pitting of liquid waste is not the answer. Therefore, effective March 22, 1973 we will no longer be able to haul the styrene tar liquid waste from your plant. This is, of course, giving you the fifteen (15) days notice as required by the contract.

Sincerely,

Harley Brown Line Manager

HB/1W

cc: John Trygg, Director, La. State Dept. of Health, Robert LaFluer, Stream Control Commission Henry LeDet, Air Control Commission Don Coldiron, V. Pres., Liquid Processing, BFI Bill Gore, Regional Mgr., BFI Sheldon Beychok, Attorney at Law



GALLONS OF STYRENE TAR FROM BFI PIT AT GEISMAR DELIVERED BY COMMERCIAL FUEL OIL TO JOC OIL AROMATICS, INC.

	Gallons <u>Per Month</u>	Truck Loads Per Month
August '75	232,227	42
September	210,076	38
October	245,258 .	42
November	444,333	76
December '75	379,739	- 68
January '76	359,890	62
February	431,449	73
March	434,139	75
April	290,490	51
May '76	396,247	69
June '76	374,186	68
July 1-27	376,736	69

BRIO-99-003078

220624

WHP 0540981

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Phase 2-A Report RCRA Facility Investigation and Extent of Contamination Investigation

Houston Wood Preserving Works Houston, Texas

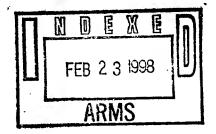
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Southern Pacific Transportation Company

February 1998

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VOL 20

Prepared By:



ERM-Southwest, Inc.

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SOUTHERN PACIFIC TRANSPO. CO.



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INDUSTRIAL DEFINATION WASTE CORRECTIVE ACTION SECTION

FEB 1 / 1998

Phase 2-A Report RCRA Facility Investigation and Extent of Contamination Investigation

Houston Wood Preserving Works Houston, Texas

February 13, 1998 W.O. #422-09

> ERM-SOUTHWEST, INC. 16300 Katy Freeway, Suite 300 Houston, Texas 77094-1611 (281) 579-8999



Phase 2-A Report RCRA Facility Investigation and Extent of Contamination Investigation

Houston Wood Preserving Works Houston, Texas

February 13, 1998

W.O. #422-09

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Principal

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EXECUTIVE SUMMARY

This report documents Phase 2-A of a permit-required RCRA facility investigation (RFI) to investigate solid waste management units and areas of concern, and an Extent of Contamination (EOC) investigation completed as part of post-closure care for a former surface impoundment at the Houston Wood Preserving Works site in Houston, Texas. The site was utilized for wood treating operations until 1985, and is currently utilized for railroad storage.

As part of the investigations, the site has been segregated into four areas:
1) Off-Site Drainage Area; 2) Tie Storage Area; 3) Former Process Areas; and 4)
Closed Surface Impoundment. The Phase 2-A activities were completed in
accordance with the scope and methods described in Section 5.0 of the Phase 1
report. The scope of Phase 2-A included the following:

- completion of seven deep soil borings, eleven monitor wells, eight CPT soundings, and five Hydropunch points;
- collection of 45 surface soil samples, 68 subsurface soil samples, and 20 ground water samples;
- leachability and geotechnical analyses of soil samples; and
- aquifer slug tests to measure hydraulic conductivity.

The site is underlain mostly by clay, with two continuous and one discontinuous sandy transmissive zones present within the upper 100 feet. Ground water in the upper two transmissive zones appears to flow away (radially) from a relative ground water high in the southwest corner of the site with Darcian velocities on the order of 1 ft/yr. Ground water in the third transmissive zone flows east-southeast with a Darcian velocity on the order of 1 ft/yr.

Site conditions were assessed relative to benchmark quantitation limits in order to develop an understanding of potential impacts to soil and ground water. Soil impacts were observed throughout portions of the soil column in the Off-site Drainage Area, the Tie Storage Area and the Former Process Areas. Ground water impacts were observed within the two upper transmissive zones near the Off-site Drainage Area, the Tie Storage Area, the Former Process Areas, and the Closed Surface Impoundment Area. Minor ground water impacts were observed within the third transmissive zone near the Former Process Areas. Ultimately, the extent of affected media will be determined relative to site-specific concentration limits.

Future activities include development of a Risk Reduction Implementation Plan (RRIP). The RRIP will include a work plan for completing Phase 2 and will describe the conceptual approach to implementing the Risk Reduction Standards to help determine appropriate corrective measures.

1.0 INTRODUCTION

ERM-Southwest, Inc. has prepared this report to document the results of Phase 2-A of a RCRA Facility Investigation (RFI) and an Extent of Contamination (EOC) investigation. The RFI is being completed at the former Houston Wood Preserving Works (HWPW) site pursuant to Texas Natural Resource Conservation Commission (TNRCC) Permit No. HW-50343-000 issued to Southern Pacific Transportation Company (SPTCo) on June 20, 1994. Concurrent with the RFI, the EOC investigation is being completed in the area of a closed permitted surface impoundment pursuant to TNRCC Compliance Plan CP-50343-000 issued to SPTCo on June 20, 1994.

The site consists of a 33-acre tract of land located at 4910 Liberty Road, Houston, Harris County, Texas. The site is approximately 1.5 miles northeast of the intersection of U.S. Highway 59 and Interstate Highway 10 (Figure 1-1).

The site was utilized for wood treating operations until 1985, and is currently utilized for railroad storage and other railroad operations. Based on the conclusions of a RCRA Facility Assessment completed on behalf of the U.S. EPA (PRC EMI, 1993) and as described in Provision VIII of the permit, ten solid waste management units (SWMUs) and six areas of concern (AOCs) are subject to the RFI. The EOC investigation is part of the post-closure care requirements described in Section VIII of the Compliance Plan.

1.1 SITE HISTORY

An RFI Work Plan was submitted to the TNRCC (IC, 1994d) and subsequently approved with modifications on October 16, 1995. Based on the technical approach described in the work plan, the ten SWMUs and two AOCs listed below are subject to investigation. The locations of the SWMUs and AOCs are shown on Figure 1-2.

Description
Northern and Southern Drainage Ditches
Recent Process Area
Original Process Area
Water Treatment and Boiler System
Tank Car Storage Area
Aboveground Storage Tank Area
Location of the Former UST No. 44-023-05
Location of the Former Sap Water Treatment Tank
Oil/Water Separators
Railroad Tie Storage Area
Diesel Storage Tank
Inactive Wastewater Lagoon

An EOC Work Plan was also submitted to the TNRCC (IC, 1994c) and subsequently approved with modifications on September 29, 1995. For the RFI/EOC, the site was grouped into the four investigation areas listed below. The locations of the four areas are shown on Figure 1-3.

Area No.	Area Name	SWMU/AOC Included
Area 1	Off-Site Drainage Area	SWMU 2, AOC 6
Area 2	Tie Storage Area	SWMU 12
Area 3	Former Process Area	SWMU 4, SWMU 5, SWMU 6,
		SWMU 7, SWMU 8, SWMU 9,
		SWMU 10, SWMU 11, AOC 1
Area 4	Former Surface Impoundment	closed permitted unit

The following list is a summary of significant documents relating to the RFI/EOC Investigations, and dates of submittals and approvals (if appropriate). Also, an upcoming schedule of activities and tentative submittals to be performed at the site is included.

Date	Description
October 1993	RCRA Facility Assessment completed on behalf of U.S. EPA
June 20, 1994	Permit No. HW-50343-000 and Compliance Plan CP-50343-000 issued by TNRCC
August 19, 1994	Operation and Maintenance Plan and Compliance Schedule submitted on behalf of SPTCo
September 7, 1994	Revised Compliance Schedule submitted on behalf of SPTCo
September 16, 1994	EOC Work Plan submitted on behalf of SPTCo
October 14, 1994	RFI Work Plan submitted on behalf of SPTCo
November 3, 1994	Revised Compliance Schedule approved by TNRCC
January 10, 1995	Operation and Maintenance Plan approved by TNRCC
September 29, 1995	EOC Work Plan approved by TNRCC
October 16, 1995	RFI Work Plan approved by TNRCC
May 23, 1996	Phase 1 RFI/EOC Report submitted on behalf of SPTCo

Date	Description
November 26, 1996	EOC portion of the Phase 1 RFI/EOC Investigation Report approved by TNRCC
January 13, 1997	RFI portion of the Phase 1 RFI/EOC Investigation Report approved by TNRCC
February 13, 1998	Phase 2-A RFI/EOC Investigation Report submitted to TNRCC on behalf of SPTCo
March 31, 1998	Tentative date for submittal of the Risk Reduction Implementation Work Plan to TNRCC on behalf of SPTCo
July 29, 1998	Tentative date to begin the Phase 2-B field investigation activities
February 24, 1999	Tentative date for submittal of the Phase 2-B RFI/EOC Investigation Report to TNRCC on behalf of SPTCo
June 24, 1999	Tentative date to begin RFI Risk Assessment
August 23, 1999	Tentative date for submittal of the RFI Risk Assessment to TNRCC on behalf of SPTCo
December 21, 1999	Tentative date to begin the Corrective Measures Study
February 19, 2000	Tentative date for submittal of the Corrective Measures Study to TNRCC on behalf of SPTCo
June 20, 2000	Tentative date for submittal of the proposed permit modification and the Corrective Measures Implementation Work Plan to TNRCC on behalf of SPTCo

NOTE:

The above summary does not include routine activities such as semiannual ground water reports.

1.2 REGULATORY STATUS

In order to facilitate a mutual understanding (between the TNRCC and SPTCo) of the site's position within the regulatory process, the current regulatory status of the site was reviewed. The purpose of this section is to: a) summarize the permit-related regulatory requirements that the site is subject to; b) outline those requirements which have been satisfied by SPTCo prior to submission of this report; and c) outline those requirements which will be addressed in this report and as part of future activities.

The RFI-related regulatory requirements are based primarily on Provision VIII of the permit. The EOC-related regulatory requirements are based primarily on the Compliance Plan, which was issued in conjunction with the permit.

1.2.1 REVIEW OF RFI REQUIREMENTS

Provision VIII is designed to facilitate completion of an investigation to determine whether constituents of concern have been released into the environment from SWMUs or AOCs at the site. Prior to initiation of investigative activities, the permit requires submittal of an RFI Work Plan. The purpose of this Work Plan is to characterize the physical layout and operational history of the site, to present a plan for conducting an investigation of the nature and extent of constituent releases in soil (and initially in ground water), and to discuss provisions for developing a full-scale Ground Water Investigation Plan, if warranted.

The permit requires SPTCo to conduct the RFI activities in accordance with the RFI Work Plan following TNRCC's approval of the Work Plan. The data generated through these activities is (in part) intended to determine the need for additional investigative activities at the site. An RFI Report, including a discussion of the findings of the RFI, is required subsequent to completion of investigation activities.

According to the permit, if it is determined that a release to soil or ground water from any of the subject SWMUs or AOCs has occurred, then a Ground Water Investigation Plan is required. The purpose of this Plan is to identify the procedures for conducting supplemental investigations of soil and ground water at the site, as needed. In addition, a Preliminary Ground Water Report, containing a summary of the known ground water conditions at the site is required. The permit then requires that a schedule for a Final Ground Water Report be submitted to the TNRCC.

Subsequent to completion of investigation activities at the site, the permit requires that either a Corrective Measures Study (CMS) or Risk Reduction Standards implementation plan be submitted to the TNRCC. The CMS or Risk Plan is required for any SWMU or AOC at which a release has been documented through the RFI. Finally, a permit modification is required as appropriate, to incorporate any proposed corrective actions and/or changes in Ground Water Protection Standards.

1.2.2 REVIEW OF EOC REQUIREMENTS

Compliance Plan No. CP-50343 is designed to facilitate implementation of a corrective action program in the area of the permitted unit (i.e., Closed Surface Impoundment, NOR Unit No. 01). The Compliance Plan requires submittal of a schedule for implementation of the required activities. In addition, an Operation

and Maintenance Plan for the ground water monitoring and recovery system is required.

After submittal of the Compliance Schedule, an EOC Work Plan is required. The purpose of this Work Plan is to outline the objectives of the EOC investigation, describe the methods to be utilized during the investigation, characterize the physical layout and operational history of the permitted unit, and outline the proposed schedule for completion of the investigation.

Subsequent to approval of the EOC Work Plan, the Compliance Plan requires implementation of the investigative activities described therein. Following completion of the EOC investigation, the Compliance Plan requires submittal of an EOC Investigation Final Report. The purpose of the Final Report is (in part) to discuss the information obtained during the investigation and to provide recommendations for further investigation.

Following approval of the EOC Investigation Final Report, the Compliance Plan requires submittal of a Corrective Action Work Plan. The purpose of the Corrective Action Work Plan primarily is to present the methods by which potential corrective action alternatives will be evaluated. Subsequent to approval of the Corrective Action Work Plan, the Compliance Plan requires implementation of the Work Plan.

The Compliance Plan requires submittal of a Corrective Action Report following completion of the Corrective Action Work Plan activities. The primary purpose of the corrective Action Report is to identify a selected corrective action alternative for ground water in the area of the permitted unit. Following approval of the Corrective Action Report (and the final selected corrective action alternative) the Compliance Plan requires submittal of detailed engineering design plans and timeframes for implementation of the alternative. Subsequent to approval of the proposed design plans and timeframes, the Compliance Plan requires that the corrective action alternative be implemented in accordance with the approved schedule.

1.2.3 REQUIREMENTS THAT HAVE BEEN SATISFIED

A summary of regulatory requirements that have been satisfied prior to submittal of this report is provided below. The summary is based on documented activities completed by SPTCo and approved by the TNRCC.

As required by the Compliance Plan, SPTCo submitted a Compliance Schedule on August 19, 1994 (IC, 1994b). Additionally, as required by Provision XI.C of the Compliance Plan, SPTCo provided notice to TNRCC of its intent to install two new point-of-compliance (POC) wells between existing wells MW-2 and MW-7. The Compliance Schedule was revised by SPTCo and resubmitted on

September 7, 1994. The two new POC wells were installed on September 19, 1994. The TNRCC approved the installation of the two new POC wells and the Compliance Schedule on November 3, 1994.

Concurrent with submittal of the Compliance Schedule, SPTCo submitted an Operation & Maintenance Plan (IC, 1994a) to TNRCC. The Operation & Maintenance Plan was approved by TNRCC on January 10, 1995. Amendments 2 and 3 to the Operation & Maintenance Plan were submitted to TNRCC on May 21, 1995 and August 8, 1995, respectively.

In accordance with permit requirements, SPTCo submitted an RFI Work Plan, dated October 14, 1994 (IC, 1994d), which addressed the SWMUs and AOCs identified in the permit. The RFI Work Plan was approved, with modifications, by the TNRCC on October 16, 1995. Similarly, an EOC Work Plan was submitted on September 16, 1994 (IC, 1994c), and was approved with modifications by the TNRCC on September 29, 1995.

The RFI and EOC investigations have been combined and the initial field activities were completed by SPTCo during November and December 1995. A Phase 1 RFI/EOC Report was submitted to the TNRCC on May 23, 1996 (Terranext, 1996). The purpose of the Phase 1 report was to summarize the findings of initial investigation activities completed at the site, and to identify areas within the site where further investigation was warranted to fully characterize the nature and/or extent of releases. The EOC portion of the Phase 1 report was approved by the TNRCC on November 26, 1996. The RFI portion of the Phase 1 report was approved by the TNRCC on January 13, 1997.

The Phase 1 report included a summary of known ground water conditions at the site based on the Phase 1 results and information obtained during investigations in the area of the permitted unit. This portion of the Phase 1 RFI/EOC Report was intended to satisfy the permit requirement for submittal of a Preliminary Ground Water Report.

Based on indications that releases had occurred from SWMUs/AOCs at the site, the Phase 1 report also included a proposal for additional (i.e., Phase 2) investigation. In addition to further defining the extent of releases in soil, the Phase 2 proposal included a plan, based on soil and ground water analytical results, to conduct additional ground water investigation. This section of the Phase 1 report was intended to satisfy the permit requirements for submittal of a Ground Water Investigation Plan. Accordingly, an outline of the sequence of future reports was described as required by the permit in the Phase 2 proposal section of the Phase 1 report. The outline included submittal of a Phase 2 RFI/EOC Report.

It should be noted that one of the stated goals of Phase 2 was to fully characterize the nature and extent of releases to ground water at the site; the Phase 2 RFI/EOC Report was thereby intended to fulfill the permit requirement for submittal of a Final Ground Water Report and an EOC Investigation Final Report. Although broad in scope, the Phase 2 field activities completed during 1997 have not provided sufficient data to fully characterize the nature and extent of releases in soil and ground water at the site. Accordingly, this report is not intended to fulfill the requirements for submittal of a Final Ground Water Report or an EOC Investigation Final Report. As described in Section 8.0 herein, additional investigation is proposed for portions of the site and off-site areas (i.e., AOC 6).

1.3 OBJECTIVES AND TECHNICAL APPROACH

The objective of the RFI process is to investigate impacts and/or releases from waste management units associated with wood treating operations. The data collected during the RFI will be utilized for the following:

- to help understand current site conditions, including the hydrogeology of the site and the nature and extent of impacts;
- to complete a baseline risk assessment for the site; and
- to help design corrective measures, if warranted.

The objective of the EOC investigation is evaluate the extent of affected ground water outside the closed impoundment's boundary. These data will be utilized to evaluate remedial alternatives that will result in ground water conditions protective of human health and the environment.

The technical approach for the investigations is to collect sufficient, quality data to meet the goals described above. In order to meet these goals more effectively, the investigations have been implemented in a phased approach. A report which documented Phase 1 of the RFI and EOC investigation was submitted to the TNRCC on May 23, 1996 (Terranext, 1996). The Phase 1 report outlined the objectives for Phase 2 activities, and a proposed scope to meet these objectives. The specific objectives of Phase 2 include the following:

- determine the vertical extent of benzene, toluene, ethylbenzene and xylenes (BTEX), polynuclear aromatic hydrocarbons (PAH), and creosote migration in soil within areas shown to be significantly impacted from past releases;
- confirm, compare and if possible, correlate soil borings and soil sampling data with existing cone penetrometer technology (CPT) and Rapid Optical Screening Tool (ROST) data;

- determine the lateral extent of off-site impact attributable to the inactive wastewater lagoon (AOC-6);
- collect representative ground water samples and obtain hydrogeologic data across the entire site;
- develop and apply fate and transport analyses to predict possible contaminant levels off site and support natural attenuation of contaminants in the subsurface;
- collect data to assess natural attenuation processes in soil and ground water;
- obtain an understanding of the relationship between concentrations of contaminants in soil, and how these concentrations have or may affect ground water quality;
- derive risk-based concentrations through risk assessment using available site data; and
- subsequently modify the Compliance Plan and Permit as necessary to assure that site-specific elements form the basis for any further investigation, corrective measures, and post-closure activities required under the Permit.

This report documents the methods and results of the RFI/EOC field activities completed during 1997 and outlines the steps required to complete Phase 2. This first step of Phase 2 is hereinafter referred to as Phase 2-A.

1.4 SCOPE OF PHASE 2-A

The Phase 2-A activities were completed in accordance with the scope and methods described in Section 5.0 of the Phase 1 report. The scope of Phase 2-A included the following:

- completion of seven deep soil borings, eleven monitor wells, eight CPT soundings, and five Hydropunch points;
- collection of 45 surface soil samples, 68 subsurface soil samples, and 20 ground water samples;
- leachability and geotechnical analyses of soil samples; and
- aquifer slug tests to measure hydraulic conductivity.

In addition to describing the methods and results of Phase 2-A, the scope of this report includes addressing a path forward for the remaining permit requirements.

1.5 LIMITATIONS

The data and results presented herein were collected by Terranext and their predecessor company, Industrial Compliance (IC). ERM-Southwest has reviewed existing site data to the extent practical and made inferences regarding site conditions based on the field notes and other files from Terranext. ERM-Southwest makes no warranties regarding the accuracy, completeness or validity of the data and results collected to date.

2.0 REGIONAL WATER USAGE

2.1 HYDROGEOLOGY

According to the latest U.S. Geological Survey nomenclature, the formations that supply water in the Harris County area are, from oldest to youngest: the Goliad Sand of Pliocene Age; the Willis Sand, the Bentley Formation, the Montgomery Formation, and the Beaumont Clay of Pleistocene Age; and Alluvium of Pleistocene and Recent Ages. These formations are grouped into two aquifer subdivisions, which are, from oldest to youngest, the Evangeline Aquifer and the Chicot Aquifer. The Evangeline Aquifer is composed of the Goliad Sand, Willis Sand, and Bentley Formation; and, the Chicot Aquifer is composed of the Montgomery and Beaumont formations.

2.2 GROUND WATER USAGE

The investigation site overlies the aquifers of the Chicot hydrogeologic unit, which yield small to moderate quantities of fresh water in Harris County. However, based on information from the City of Houston Water Production/Water Quality Division, local drinking water in this section of Harris County is obtained only from Lake Houston or the Trinity River (pc, 1997).

A records search was completed in 1995 to identify water wells within one mile of the site (AIC, 1995). The search indicated that nine wells had been installed. Two of the wells are owned by the City of Houston (one screened from 1,142 to 1,969 feet below grade and the other screened from 641 to 1,279 feet below grade), six wells are owned by the Harris-Galveston Coastal Subsidence District for observation (screened from depths ranging from 283 to 2,119 feet below grade), and one was a privately-owned well which has been plugged and abandoned.

2.3 SURFACE WATER USAGE

Based on a review of USGS topographic quadrangle maps, no significant surface water bodies suitable for water supply, recreational, or industrial usage are located within one mile of the site.

3.0 FIELD PROCEDURES

The field activities associated with Phase 2-A were completed on behalf of SPTCo by Terranext. The scope of the field activities, and the field procedures and investigation tools that were utilized are described in a report prepared by Terranext entitled "Phase 2 RFI/EOC Field Procedures". The field procedures report dated December 8, 1997 is included as Appendix A.

4.0 SITE GEOLOGY AND HYDROGEOLOGY

Based on a review of the CPT logs and soil boring logs completed as part of previous (including Phase 2-A) hydrogeologic investigations, the subsurface has been characterized to a depth of approximately 75 feet. One deeper boring was advanced for the installation of a monitor well, but no log was generated. The subsurface is characterized by a series of low-permeability zones (i.e., cohesive soils) and water-transmissive zones.

For simplicity and organizational reasons, the nomenclature to designate strata has been modified somewhat. The native cohesive and transmissive zones underlying the site have been re-designated alphabetically from shallowest to deepest. For example, the shallowest or uppermost transmissive zone is referred to as the A-Transmissive Zone or A-TZ.

From shallowest to deepest, the lithologic zones that underlie the site include fill material, the A-Cohesive Zone (A-CZ), the A-Transmissive Zone (A-TZ), the B-Cohesive Zone (B-CZ), the B-Transmissive Zone (B-TZ), the C-Cohesive Zone (C-CZ), the C-Transmissive Zone (C-TZ), and the D-Cohesive Zone (D-CZ). Geologic cross-sections and a cross-section location map are provided in Figures 4-1 through 4-5. The general characteristics of each zone are described below.

4.1 FILL MATERIAL

Fill material is present at ground surface and has an average thickness of approximately 3 feet. Visual observations of the fill material indicate that the fill is primarily a mixture of gravel, clay, construction debris, and railroad ties. The layer of fill is underlain by the A-CZ.

4.2 A-COHESIVE ZONE

The A-CZ ranges in thickness from 8 to 15 feet and was encountered in all the CPT soundings and monitor well borings. Based on lithologic descriptions from boring logs for MW-10A, MW-10B, and MW-11A, the A-CZ in the western portion of the site consists of gray silty clay. The silty clay is stiff to very stiff, laminated, moist, and contains indications of plant material, calcium carbonate, iron oxide nodules, roots, and sandy clay lenses. The A-CZ is underlain by the A-TZ.

4.3 A-TRANSMISSIVE ZONE

According to CPT soundings and boring log descriptions, the A-TZ is a continuous sandy layer present across the site. The A-TZ is thickest on the eastern portion of the property (approximately 10 feet thick), and gradually thins from east to west (to less than 4 feet thick). Based on lithologic descriptions from

boring logs for MW-10A, MW-10B, and MW-11A, the A-TZ beneath the western portion of the site consists of light greenish-gray to light gray sand and silty sand that is very fine-grained, wet, and contains plant material and 10 to 25 percent clay. The A-TZ overlies the B-CZ.

4.4 B-COHESIVE ZONE

The B-CZ is a layer of cohesive soils (mostly clays, silty clays, sandy clays, and clayey silts) ranging in thickness from approximately 10 feet beneath the eastern portion of the site to 16 feet beneath the western portion of the site. The B-CZ was encountered in all the CPT soundings and POC well nest borings. Based on the boring logs from the POC well nests (MW-10A, MW-10B, and MW-11A, MW-11B) the B-CZ beneath the site is clay, silty clay, and sandy clay. It is mottled gray and reddish brown, very stiff to hard, and moist with a high plasticity. The unit also contains lenses of silty sand, and slickensides. The B-CZ overlies the B-TZ or C-CZ where the B-TZ is absent.

4.5 B-TRANSMISSIVE ZONE

The B-TZ is a sandy layer that underlies the B-CZ in the western portion of the site only, and is not present in the eastern portion of the site. Where present, the B-TZ is approximately 7 feet thick and is present at approximately 25 to 35 feet below ground surface. Based on the POC boring logs, the B-TZ consists of silty sand and sand that is mottled brown and gray, very fine-grained, and very dense in consistency.

4.6 C-COHESIVE ZONE

The C-CZ is a layer of cohesive soils (primarily) that underlie the B-TZ to the west and the B-CZ to the east. The C-CZ is approximately 8 feet thick. Based on boring logs from MW-12C and MW-18C, the C-CZ consists of silt and clayey silt that is reddish brown, firm in consistency, has low plasticity, and contains minor amounts of sand.

4.7 C-TRANSMISSIVE ZONE

The C-TZ is a silty sand layer 7 feet thick that underlies the C-CZ at an approximate depth of 65 to 66 feet below ground surface. Based on the boring logs from MW-12C and MW-18C, the C-TZ consists of silty sand that is reddish brown, very fine-grained and wet. The C-TZ overlies reddish brown clay. The underlying clay has been designated the D-CZ: Only the upper 2 feet of the D-CZ has been characterized.

4.8 AQUIFER SLUG TEST RESULTS

Aquifer slug tests (rising head) were performed on 10 monitor wells on May 1 and 2, 1997. The slug tests data were analyzed using the Bouwer and Rice method (Bouwer and Rice, 1976) and the solutions are included in Appendix C. The results of the rising head test are listed below.

Monitor Well ID	Transmissive Zone	Hydraulic Conductivity (cm/sec)
MW-10A	A-TZ	4.2×10^{-4}
MW-10B	B-TX	5.3×10^{-5}
MW-12A	A-TZ	3.1×10^{-3}
MW-12B	B-TZ	3.7×10^{-3}
MW-13	A-TZ	7.9 × 10 ⁻⁴
MW-14 [B]	B-TZ	1.2×10^{-4}
MW-15	A-TZ	6.9×10^{-4}
MW-16	A-TZ	4.5×10^{-4}
MW-17	A-TZ	2.8×10^{-4}
MW-18	A-TZ	1.3×10^{-3}

Based on the slug test data gathered from seven monitor wells screened in the A-TZ, the hydraulic conductivity of the A-TZ ranges from 2.8×10^{-4} to 1.3×10^{-3} cm/sec, with an average conductivity of 7.0×10^{-3} cm/sec (2.8 ft/day) and a geometric mean of 7.6×10^{-4} cm/sec. Based on the slug test data gathered from three monitor wells screened in the B-TZ, the hydraulic conductivity of the B-TZ ranges from 5.3×10^{-5} to 3.7×10^{-3} cm/sec, with an average conductivity of 1.2×10^{-3} cm/sec (3.7 ft/day). and a geometric mean of 2.8×10^{-4} cm/sec.

4.9 GROUND WATER FLOW

Ground water elevations were measured from each monitor well on September 25, 1997 to help assess ground water flow direction and gradient. Potentiometric surface contour maps for the A-TZ, B-TZ and C-TZ are provided in Figures 4-6, 4-7 and 4-8, respectively.

4.9.1 Horizontal Ground Water Flow

Based on interpretation of the contour maps for both the A-TZ and B-TZ, ground water appears to flow radially away from a relative ground water high in the southwest corner of the Tie Storage Area. The horizontal hydraulic gradient is typically 0.001 ft/ft in both the A-TZ and the B-TZ. Based on the horizontal gradient and the hydraulic conductivity described in Section 4.8 above, the calculated Darcian velocity is 0.8 ft/yr in the A-TZ and 0.3 ft/yr in the B-TZ.

Based on interpretation of the C-TZ contour map, ground water flows toward the east-southeast with a horizontal hydraulic gradient of 0.003 ft/ft.

4.9.2 Vertical Ground Water Flow

Monitor well nests were constructed at five locations at the site. The well nests consist of two or three monitor wells that are located as near as practical to each other (i.e., less than 10 feet apart) but are screened in separate transmissive zones. The well nest locations, screened intervals, and ground water elevations measured on September 25, 1997 are summarized below:

Tie Storage Area

MW-12A	A-TZ	41.88 ft MSL
MW-12B	B-TZ	41.70 ft MSL
MW-12C	C-TZ	13.44 ft MSL
Closed Surface Impo	oundment	
MW-10A	A-TZ	41.43 ft MSL
MW-10B	B-TZ	41.28 ft MSL
MW-11A .	A-TZ	41.34 ft MSL
MW-11B	B-TZ	41.23 ft MSL
Former Process Are	as	
MW-15A	A-TZ	40.66 ft MSL
MW-15C	C-TZ	16.24 ft MSL
MW-18A	A-TZ	36.42 ft MSL
MW-18C	C-TZ	19.94 ft MSL

At each location where the A-TZ and B-TZ are screened, the measured ground water elevations for the two zones are within one foot. As a result, the horizontal flow direction and gradient for the two zones are similar. The A-TZ and B-TZ are separated by approximately 5 feet of clay with interlaminated silty and/or sandy seams: that is, the upper portion of the B-CZ. These observations suggest that the A-TZ and B-TZ have substantial hydraulic communication.

Based on the measured ground water elevations, the vertical hydraulic gradient between the A-TZ/B-TZ and the C-TZ appears to be downward. The C-TZ is overlain by 25 to 40 feet of clay, and the potentiometric surface of the C-TZ is an average of 23 feet lower than the A-TZ or B-TZ (where present).

5.0 ANALYTICAL RESULTS

The Phase 2-A field activities were conducted between February 25, 1997 and May 13, 1997. The field activities included collection of 45 surface soil samples, 68 subsurface soil samples, and 20 ground water samples for laboratory analyses. Ground water samples were collected both from monitor wells and through Hydropunch technology.

Subsurface soil samples and ground water samples were analyzed for the constituents of interest (COI) listed in the Compliance Plan (Tables I and II). The COI are provided in Table 5-1 and include volatile organic compounds (VOCs) analyzed by SW-846 Method 8260 and semivolatile organic compounds (SVOCs) analyzed by SW-846 Method 8270. The surface soil samples were analyzed for a subset of the COI as described in Section 5.1 below.

In addition, 28 discrete subsurface soil samples were collected from locations that had been characterized through CPT/ROST during Phase 1. These samples were split and analyzed for total petroleum hydrocarbons (TPH) by EPA Method 418.1 (modified) and bench-scale ROST. The objective of this task was to evaluate the relationship between TPH concentration and the fluorescence data obtained during Phase 1.

5.1 SURFACE SOIL ANALYTICAL RESULTS

As an initial step in understanding overall site conditions, the Limits of Quantitation (LOQs) were utilized as a benchmark for assessing which areas had been impacted through historical site activities at the SWMUs and AOCs. Ultimately, the extent of affected surface soil will be assessed relative to concentration limits appropriate for the site in accordance with the permit during development of a site conceptual model. The site conceptual model will be presented under separate cover.

A total of 31 surface soil samples were collected from a pre-set grid in accordance with U.S. EPA guidance (U.S. EPA, 1989). Additionally, 14 surface soil samples were collected during completion of soil borings and/or monitor wells. The laboratory analytical results for the surface soil samples are summarized in Table 5-2 and the laboratory analytical reports are provided in Appendix B.

The 31 surface soil samples collected from the grid pattern were analyzed for the SVOCs included on the COI list (Table 5-1) by SW-846 Method 8270. The additional surface soil samples from the soil borings and wells were analyzed for the COI listed in Table 5-1.

Bubble plots were developed from the comprehensive database of surface soil results (i.e., Phase 1 and Phase 2-A) to show the relative distribution of selected

COI. A surface soil bubble plot of soil chrysene concentrations is provided in Figure 5-1. Chrysene was selected because its distribution and range of detected concentrations are representative of the SVOCs reported in surface soil samples. The comprehensive set of surface soil analytical results is described by area below.

5.1.1 Area 1 - Off-site Drainage Area

No surface soil samples were collected in the Off-site Drainage Area as part of the Phase 2-A investigation. A description of observed impacts is included in the Phase 1 RFI/EOC report.

5.1.2 Area 2 - Tie Storage Area

A total of 20 surface soil samples were collected within the Tie Storage Area as part of the Phase 2-A investigation. Based on the reported laboratory results, unimpacted areas are present near MW-12, CPT30R, CPT28, and MW-15.

5.1.3 Area 3 - Former Process Areas

A total of 11 Phase 2-A surface soil samples were collected within the Former Process Areas. The Phase 2-A surface soil sample analytical results indicate two areas of impact, however their extent has not been fully assessed. The analytical results suggest historical impacts are greatest around the location of grid node G8 in the northeast area of the Former Process Area as shown on Figure 5-1.

5.1.4 Area 4 - Closed Surface Impoundment

The former impoundment was backfilled with imported fill material as part of closure activities in 1980. Accordingly, no surface soil samples were collected in the Closed Surface Impoundment as part of the Phase 2-A investigation.

5.2 SUBSURFACE SOIL ANALYTICAL RESULTS

As an initial step in understanding overall site conditions, the LOQs were utilized as a benchmark for assessing which areas had been impacted through historical site activities at the SWMUs and AOCs. The extent of affected subsurface soil ultimately will be assessed relative to concentration limits appropriate for the site in accordance with the permit during development of a site conceptual model. As previously mentioned, the site conceptual model will be presented under separate cover.

Soil borings SB02 through SB08 and monitor well borings MW-12 through MW-18 were completed as part of the Phase 2-A investigation to assess the extent of COI. In addition, CPT soundings (CPT35 through CPT42) were completed to

further assess site lithology. The soil boring logs and CPT logs are included as Attachment 1 to Appendix A. A total of 68 subsurface soil samples were collected and analyzed for the COI listed on Table 5-1. The analytical results are summarized on Table 5-3 and the laboratory analytical reports are provided in Appendix B.

Bubble plots were developed from the comprehensive database of subsurface soil results (i.e., Phase 1 and Phase 2-A) to show the relative distribution of selected COI. Subsurface soil bubble plots of benzo(a)anthracene and naphthalene are provided in Figures 5-2 and 5-3. Benzo(a)anthracene and naphthalene were selected because the range and distribution of concentrations are representative of the SVOCs reported on site. The comprehensive set of subsurface soil analytical results is described by area below.

5.2.1 Area 1 - Off-site Drainage Area

No subsurface soil samples were collected in the Off-site Drainage Area as part of the Phase 2-A investigation. A description of observed impacts is included in the Phase 1 RFI/EOC report.

5.2.2 Area 2 - Tie Storage Area

Based on the RFI/EOC investigation results, COI are present from ground surface to the silty clay of the A-CZ (approximately 7 feet below ground surface) in the Tie Storage Area. In addition, COI have been detected within the A-TZ and B-TZ soil matrix at depths of approximately 20 and 35 feet below grade. As shown on Figures 5-2 and 5-3; however, soil impacts are limited to a small area in the southeastern portion of the Tie Storage Area.

The Phase 1 report suggested that a potential creosote source may be present in a localized area near CPT25R. The ROST profile for CPT25R showed measurable fluorescence from 0 to 30 feet below grade and from 42.5 to 45 feet below grade, which corresponds to the fill, A-CZ, A-TZ, and B-TZ. As part of Phase 2-A, soil boring SB05 was advanced adjacent to CPT25R. The laboratory analytical results from samples collected from SB05 indicated that no COI were detected.

5.2.3 Area 3 - Former Process Areas

Based on the subsurface analytical results, as well as the relatively high fluorescence intensities recorded, COI are present in the Former Process Areas from ground surface to the clay in the C-CZ (approximately 60 feet below ground surface). A minimum of one COI was detected in each sample collected from the soil borings and well borings located in the Former Process Areas.

5.2.4 Area 4 - Closed Surface Impoundment

No subsurface soil samples were collected in the Closed Surface Impoundment as part of the Phase 2-A investigation. A description of observed impacts is included in the Phase 1 RFI/EOC Report.

5.3 SOIL LEACHATE TESTING RESULTS

Five subsurface soil samples were submitted for the Synthetic Precipitation Leaching Procedure (SW-846 Method 1312) and subsequent analysis of COI using SW-846 Methods 8260 and 8270. The samples were collected from soil borings SB03, SB04 and SB06, which are located in the Former Process Areas. A summary of the soil leachate testing results is provided in Table 5-4.

5.4 SOIL GEOTECHNICAL RESULTS

A total of 10 soil samples were submitted for analysis of the following geotechnical parameters: dry density, moisture content, specific gravity, fraction organic carbon, and pH. A summary of the soil geotechnical results is included in Table 5-5.

Based on the reported data, several general trends are observed. First, the transmissive zones have lower dry densities and lower specific gravity than the cohesive zones which is a result of differing mineral content, and to a lesser degree, packing and relatively larger grain size. The transmissive zones also have higher moisture content and lower fractions of organic carbon.

5.5 GROUND WATER ANALYTICAL RESULTS

As an initial step in understanding overall site conditions, the LOQs were utilized as a benchmark for assessing which areas had been impacted through historical site activities at the SWMUs and AOCs. Ultimately, the extent of affected ground water will be assessed relative to concentration limits appropriate for the site in accordance with the permit during development of a site conceptual model. The site conceptual model will be presented under separate cover.

As part of the Phase 2-A field activities, 11 monitor wells were installed to facilitate ground water sampling and to provide information regarding hydraulic gradient, hydraulic conductivity, lithology, and constituent concentrations in the transmissive zones. Of the 11 Phase 2-A wells, six were completed in the A-TZ, two were completed in the B-TZ and three were completed in the C-TZ. Currently, 23 wells and 3 piezometers are present at the site. A comprehensive well completion table for the wells on site, including the area and zone of completion is provided in Table 5-6.

In addition, nine ground water samples were collected using the Hydropunch sampling system. The overall objective of this phase of the Hydropunch program was to determine if the Inactive Wastewater Lagoon (AOC-6) is a source of impact to the ground water in the off-site area west of the site, and to assess the extent of any impact.

During Phase 2-A, ground water samples were collected from monitor wells on site and from Hydropunch locations on site and off site. The ground water samples were collected and analyzed for the COI listed in Table 5-1. The laboratory analytical results for the ground water samples are summarized in Tables 5-7 and 5-8, and the laboratory analytical reports are provided in Appendix B. Bubble plots which show the relative distribution of selected COI in ground water are provided in Figures 5-4, 5-5 and 5-6 within the A-TZ, B-TZ and C-TZ, respectively. The following subsections describe the ground water analytical results by area.

5.5.1 Area 1 - Off-site Drainage

Based on the comprehensive analytical database, the A-TZ appears to be impacted in the off-site drainage area near HP02, HP08, and HP18. The B-TZ is impacted at HP18STZ and HP21STZ. The northern portion of the Off-site Drainage Area shows no impact to the A-TZ (no data is available for the B-TZ and C-TZ in this area).

The reported results for well MW-12C, which is completed in the C-TZ near the center of the Off-site Drainage Area, has no detected COI.

5.5.2 Area 2 - Tie Storage Area

Based on the comprehensive analytical database, the A-TZ and B-TZ appear to be impacted in the southwest portion of the Tie-Storage Area near MW-05 and in the center of the western boundary near MW-12. The A-TZ and C-TZ also appear to be impacted in the northeast portion of the area at MW-15; whereas the B-TZ is not present in the northeast.

5.5.3 Area 3 - Former Process Areas

Based on the comprehensive analytical database, the A-TZ appears to be impacted in the Former Process Areas. No COI were detected at HP12. The B-TZ is not present in this area of the site. Constituents of interest were also detected in the C-TZ near MW-18. It should be noted that limited data is available relating to ground water in the Former Process Areas.

5.5.4 Area 4 - Closed Surface Impoundment

The A-TZ and B-TZ appear to be impacted in the area of the Closed Surface Impoundment. No data is available for the C-TZ in this area.

6.0 SOIL ASSESSMENT

Section 5.0 of the Phase 1 report described several soil assessment activities to be completed as part of Phase 2, including a comparison of soil TPH and ROST data, numerical simulation of creosote mobility and fluid motions, and assessment of potential natural attenuation processes. Based on the data collected, only the soil TPH and ROST data comparison is appropriate at this time. Each soil assessment activity is briefly described below.

6.1 SOIL TPH AND ROST CORRELATION

During Phase 1, a substantial set of soil fluorescence data was collected using CPT/ROST technology. Because the ROST tool was used *in situ* and adjacent soil samples were not collected, direct comparison to constituent concentrations could not be made. In order to assess the relative sensitivity of the ROST data to soil constituent concentrations, soil samples were collected during Phase 2 and analyzed concurrently for TPH and fluorescence.

In order to collect appropriate data, selected soil borings were sampled at various depths and samples were split for analysis. A portion of each sample was sent to Pace Analytical, Inc. of Houston, Texas for TPH analysis, and a portion was sent to Fugro Geosciences of Houston, Texas for bench-scale ROST analysis. A summary of the results is provided in Table 6-1.

A similar study was performed recently and is described in a document entitled The Rapid Optical Screening Tool (ROSTTM) Laser-Induced Fluorescence (LIF) System for Screening of Petroleum Hydrocarbons in Subsurface Soils (U.S. EPA, 1997). In that document, a qualitative correlation was demonstrated between TPH (a.k.a., TRPH) results and ROST results at two different environmental investigation sites. However, quantitative correlation was not discussed. Hence, both a quantitative and a qualitative correlation between TPH and ROST data is presented herein.

6.1.1 QUALITATIVE COMPARISON

As a first step, a qualitative analysis was performed to evaluate whether a positive ROST detection is reproducible as a positive TPH detection. The results suggest a very good correlation between TPH detects and LIF detects was observed to the extent that only one discrepancy was noted in 31 observations.

The qualitative analysis included a review of TPH and ROST detection limits. The TPH LOQ for this data set was reported at 20 mg/kg. Background fluorescence is typically established for each sounding based on the average minimum LIF response (a detection limit is then calculated by adding 2.58 standard deviations of the minimum response to the background value). However, because

the ROST probe was exposed to a batch sample for this analysis, rather than a continuous soil column, no background measurement could be obtained. Whereas a detection limit could not be calculated for a specific sample, an approximate background intensity (i.e., detection limit) of 2.65 was estimated based on the entire set of data.

6.1.2 QUANTITATIVE COMPARISON

Prior to numerical comparison, the data sets were transformed to natural logarithms. In addition, a value equal to one-half the TPH LOQ (i.e., 10 mg/kg) was assigned for non-detect results.

Visual inspection of the data shows an obvious trend, and an R² value of 0.7 is calculated through linear regression analysis (Figure 6-1). For comparison purposes, the data sets were then segregated by soil class to help account for potential variability resulting from soil texture differences. Very strong correlations were calculated for the segregated data sets. For example, an R² value of 0.9 was calculated when the subset for clayey silt was compared.

Derivation of site-specific calibration curves and more rigorous statistical evaluation is not presented herein based on: a) the areas where ROST was employed previously have subsequently been studied using conventional techniques; and b) the results of the conventional analysis largely supported the ROST screening results. The applicability of additional comparison will be determined based on the objectives of future use of ROST technology at the site, if any.

6.2 ANALYSES OF CREOSOTE MOBILITY, FLUID MOTIONS AND NATURAL ATTENUATION PROCESSES

Section 5.8 of the Phase 1 report described a conceptual methodology for numerically determining the site-specific mobility of creosote. In addition, numerical simulations of fluid motion and natural attenuation processes were proposed. Based on the data collected and the overall goals of the RFI/EOC investigations, these modeling efforts appear to be premature at this time.

The goals of the RFI/EOC investigations included assessment of the extent of affected material. Thus, until that assessment is complete, or unless further investigation cannot be completed, it is not appropriate to model these processes. If, following completion of the RFI/EOC investigations, additional understanding of these processes is required to achieve permit requirements, then the modeling will be performed.

7.0 PHASE 2-A CONCLUSIONS

The following general conclusions were developed based on data presented herein and in the Phase 1 report completed previously.

7.1 SUMMARY OF HYDROGEOLOGY

The predominant lithology beneath the site is clay, though very fine-grained sand zones are present as thin laterally continuous layers (A-TZ and C-TZ) across the site, and as a thin discontinuous layer (B-TZ) beneath the western portion of the site (see Figures 4-1 through 4-5). The A-TZ and B-TZ appear to be interconnected to some degree, and ground water these two upper zones flows away from the southwestern portion of the site. Ground water in the C-TZ flows toward the east-southeast. The hydraulic conductivity of the sandy zones range from 10⁻³ to 10⁻⁵ cm/sec. There are no known uses of ground water from the A-TZ, B-TZ or C-TZ within one mile of the site.

7.2 SUMMARY OF SOIL CHARACTERISTICS

Surface soil and subsurface soil samples were collected as part of Phase 2-A. As an initial step in understanding overall site conditions, the LOQs were utilized as a benchmark for assessing which areas had been impacted through historical site activities at the SWMUs and AOCs. The areas that appear to be impacted include the following:

- Off-site Drainage Area Site data indicates that portions of the B-TZ and C-CZ are impacted by COI.
- Tie Storage Area Site data indicates that portions of the A-CZ, A-TZ,
 B-CZ and B-TZ are impacted by COI. Based on laboratory analytical results from SB05, the theory of a localized creosote source near CPT25R is discounted.
- Former Process Areas Site data indicates that portions of the A-CZ, A-TZ,
 B-CZ and C-CZ are impacted by COI.
- Closed Surface Impoundment The former surface impoundment was a shallow pit approximately 7 feet deep, excavated and closed according to guidance from the Texas Water Commission (now the TNRCC) in 1984. Site data indicates that the A-CZ, A-TZ, and B-CZ at the surface impoundment are less impacted by constituents of concern than the deeper B-TZ.

Soil fluorescence appears to be directly proportional to soil TPH (and presumably to COI) concentrations. The extent of affected soil will be assessed relative to

concentration limits appropriate for the site in accordance with the permit during development of a site conceptual model.

7.3 GROUND WATER CHARACTERISTICS

Ground water samples were collected both from monitor wells and through the Hydropunch system as part of Phase 2-A. As an initial step in understanding overall site conditions, the LOQs were utilized as a benchmark for assessing which areas had been impacted through historical site activities at the SWMUs and AOCs. The areas that appear to be impacted include the following:

- Off-site Drainage Area Site data suggests that portions of the A-TZ and B-TZ are impacted by COI.
- Tie Storage Area Site data indicates that portions of the A-TZ and C-TZ are impacted by COI.
- Former Process Areas Site data indicates that portions of the A-TZ and C-TZ are impacted by COI.
- Closed Surface Impoundment Ground water near the former surface impoundment is analyzed semiannually pursuant to the Compliance Plan, and the results are provided in semiannual ground water monitoring reports submitted under separate cover. Site data indicates that the A-TZ, and B-CZ at the surface impoundment are impacted by COI.

The extent of affected ground water will be assessed relative to concentration limits appropriate for the site in accordance with the permit during development of a site conceptual model.

8.0 PATH FORWARD

In order to satisfy the substantive requirements of the permit and compliance plan, SPTCo proposes an aggressive path forward. Based on the extensive investigation completed on site to date, only limited additional investigation is warranted to meet the overall goals of the RFI on site. Conversely, SPTCo recognizes that the off-site data set is limited and that additional RFI/EOC investigation is warranted: for example, in the AOC-6 area and the area northeast of the site. Accordingly, a work plan to complete the RFI/EOC investigations will be submitted.

The work plan will likely incorporate by reference much of the material presented in the RFI Work Plan approved previously, except for the scope of work. The work plan will outline a detailed scope of work for Phase 2-B that will achieve the pertinent goals of Phase 2. SPTCo proposes that the goals of Phase 2 be limited hereafter to determining the lateral and vertical extent of affected media resulting from activities at SWMUs and AOCs during wood treating operations. SPTCo is confident that these objectives will be achieved during Phase 2-B; however, if the objectives are not achieved, then a Phase 2-C will be implemented. The applicability of developing fate and transport analyses to predict possible COI concentrations off site in the future (in support of natural attenuation demonstrations) will be assessed during future site activities.

8.1 SUMMARY OF ACTIVITIES

This section provides a conceptual summary of the actual activities associated with the site. In addition to the RFI/EOC investigations, routine ground water monitoring and other activities associated with the Closed Surface Impoundment Compliance Plan will be performed, but are not included in this summary.

It should also be noted that Interim Stabilization Measures may be implemented during the course of site activities. For example, the off-site portion of the southern drainage ditch (i.e., SWMU 1) has been remediated and an Interim Stabilization Measures report will be submitted under separate cover during the first quarter of 1998.

Phase 1 RFI/EOC

A screening-level investigation of the SWMUs and AOCs was completed to help design a full-scale investigation (i.e., Phase 1). The Phase 1 investigation results suggested that completion of a full-scale soil and ground water investigation of waste management areas was warranted.

Phase 2 RFI/EOC

A multi-phase, full-scale investigation was designed to determine the nature and extent of affected media. The Phase 2 investigation is in progress. A plan to complete Phase 2 will be developed and submitted as part of a Risk Reduction Implementation Plan as described below.

Baseline Risk Assessment

A baseline risk assessment (BRA) will be completed following completion of Phase 2. If warranted based on the conclusions of the BRA, a corrective measures study (CMS) will be completed.

• Phase 3 Investigation

Phase 3 will be reserved for investigation related specifically to remedial design, if warranted, following completion of the BRA and CMS.

• Corrective Measures

If warranted based on the conclusions of the BRA and following completion of the CMS, corrective measures will be implemented. Prior to implementation, a permit and compliance plan modification will be completed to incorporate the objectives and conceptual design of the corrective measures, as well as to establish the protection standards (i.e., remedial goals) that will be achieved.

8.2 PROPOSED PLAN

In order to fully develop the framework for future activities at the site, a Risk Reduction Implementation Plan (RRIP) will be prepared and submitted. The RRIP will describe the conceptual approach to implementing the Risk Reduction Standards in accordance with Provision VIII.I.3 of the permit. The contents of the RRIP will include the following:

- a summary of the RFI/EOC investigation results;
- development of a site conceptual model, including a discussion of the extent of affected media relative to concentration limits appropriate for the site in accordance with the permit;
- the technical approach to addressing the SWMUs and AOCs individually or as groups of waste management units;
- · development of preliminary risk goals for the site;

- a description of how the Risk Reduction Rules (or Program) will be applied at the site;
- preliminary risk assessment activities, including comprehensive evaluation of site data and selection of constituents of concern;
- assessment of site-specific risk assessment issues such as risk assessment for dermal exposure to carcinogenic PAHs, and wetlands and ecological assessment issues;
- a work plan for Phase 2-B as described above;
- a technical justification for modifying the permit and compliance following completion of Phase 2 to implement corrective action; and
- a detailed schedule for implementing the remaining requirements of the permit and compliance plan.

SPTCo proposes to submit the RRIP to the TNRCC during the first quarter of 1998. A preliminary outline for the RRIP is provided in Appendix D.

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Interim Stabilization Measures Report Houston Wood Preserving Works

Southern Pacific Transportation Company Houston, Texas

April 27, 1998 W.O. #422-09

Environmental Resources Management

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Interim Stabilization Measures Report

Southern Pacific Transportation Company Houston, Texas

April 27, 1998

W.O. #422-09

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EXECUTIVE SUMMARY

On behalf of Southern Pacific Transportation Company, ERM-Southwest, Inc. (ERM) has prepared this Interim Stabilization Measures (ISM) Report to document a removal action performed on a storm water drainage ditch adjacent to the former Houston Wood Preserving Works (HWPW) site. While conducting an off-site walk-over, a black, viscous material was discovered in the ditch, east of the portion of the ditch previously remediated. In order to reduce the potential for exposure to the material, SPTCo elected to remove the visibly-affected material from the ditch and transport the material off-site for disposal.

The removal action was performed as an ISM in accordance with Environmental Protection Agency Office of Solid Waste and Emergency Response (OSWER) Directive No. 9902.3-2A, entitled RCRA Corrective Action Plan and dated May 31, 1994. The objective (and result) of the ISM was to remove, treat, and/or decontaminate the ditch to the extent practical, ultimately, in order to help meet the requirements for final measures at the site.

Approximately 850 cubic yards of soil and other rubbish materials (e.g., vegetation, municipal trash, sheet piling), were manifested and transported to the Waste Management, Inc. Atascocita Landfill for disposal. In addition, a total of approximately 17,700 gallons of storm water was removed from the ditch and transferred to the Englewood Yard wastewater treatment plant for treatment.

Following completion of removal activities, the ditch was backfilled with approximately 750 cubic yards of clean clay fill and graded to its approximate preconstruction shape.

The soil removal activities satisfied the overall ISM goal to "control or abate threats to human health and/or the environment from releases and/or to minimize the further spread of contamination while long-term remedies are pursued," as stated in OSWER Directive No. 9902.3-2A.

The Southern Drainage Ditch will be further investigated to determine the nature and extent of constituent releases to soil and ground water in this area during subsequent investigation activities completed in accordance with the ongoing RCRA Facility Investigation (RFI) for the site. The remedial activities completed during this ISM will be incorporated into the final remedy recommended for this SWMU.

1.0 INTRODUCTION

ERM-Southwest, Inc. (ERM) has prepared this Interim Stabilization Measures (ISM) Report to document a removal action performed on a storm water drainage ditch adjacent to the former Houston Wood Preserving Works (HWPW) site. The removal action was conducted beginning on November 10, 1997 and ending on November 18, 1997. Removal activities were managed by ERM-EnviroClean-Southwest, LLC (EnviroClean) on behalf of Southern Pacific Transportation Company (SPTCo). Construction activities were conducted by USA Environmental Services, Inc. Affected soil removed during the ISM was disposed off site at the Waste Management, Inc. Atascocita Landfill in Humble, Texas.

1.1 BACKGROUND

The HWPW site consists of a 33-acre tract of land located at 4910 Liberty Road, Houston, Harris County, Texas. The site is approximately 1.5 miles northeast of the intersection of U.S. Highway 59 and Interstate Highway 10 (Figure 1-1). Historically, wooden railroad ties were treated with creosote at the site. Wood preserving operations were discontinued at the site in 1984 and the facilities were dismantled. Currently, the site is used for storage of railroad equipment and containers.

Later in 1984, following discontinuation of wood preserving operations at the site, a surface impoundment which had been used to manage wood preserving wastes was closed. A certification was filed which stated that the waste was removed from the impoundment and disposed at an off-site location, and the resulting excavation was filled with clean backfill. Ground water monitoring was subsequently initiated in 1984 for the area surrounding the surface impoundment. Based on the results of ground water monitoring, a Compliance Plan Application and Post-Closure Care Application were submitted in 1991.

A RCRA Facility Assessment (RFA) was completed on behalf of the U.S. EPA in 1993. Based on the results of the RFA and as described in Provision VIII of Permit No. HW-50343-000 issued to SPTCo on June 20, 1994, ten solid waste management units (SWMUs) and six areas of concern (AOCs) were identified at the site. The RCRA permit designates two storm water drainage ditches collectively as SWMU-2 (Northern and Southern Drainage Ditches). The Northern Drainage Ditch runs north to south along the western boundary of the site. The Southern Drainage Ditch runs northeast to southwest along the southern boundary of the site, as shown in Figure 1-2.

In 1995, a portion of the Southern Drainage Ditch (ditch) beginning approximately 400 feet west of the site and continuing approximately 290 feet further west was remediated. Approximately 125 tons of affected ditch material was stabilized with lime, removed from the ditch, and transported for off-site incineration. Following completion of remediation activities, a weir constructed

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of driven steel sheet piling was installed at the easternmost edge of the remediated portion of the ditch. SPTCo submitted a report to the TNRCC, dated June 27, 1995, documenting the completion of remediation activities.

In September 1997, while conducting an off-site walk-over, a black, viscous material was discovered in the ditch, east of the sheet pile weir. During a limited follow-up assessment completed on September 12, 1997, ERM assessed the extent of the affected material in the ditch. The material was noted as present at depths varying from several inches to approximately three feet and as being distributed along a segment of the ditch extending from the southwest corner of the site to the sheet pile weir west of the site, as shown in Figure 1-2 (a total distance of approximately 400 feet). In order to reduce the potential for exposure to the material, SPTCo elected to remove the visibly-affected material from the ditch and transport the material off site for disposal.

1.2 PRESUMED SOURCE OF MATERIAL

Based on a review of historical site operations, and on the results of the limited follow-up assessment, the likely source of the affected material in the ditch is historical surface release(s) of product(s) used as part of the wood treating process prior to decommissioning site operations. The investigation into the likely source of the material was conducted in order to better understand site conditions relating to potential migration of the material, and to help classify the material for disposal. The investigation was not intended to establish the actual origin of the material or the circumstances of the release.

1.3 REGULATORY FRAMEWORK

The removal action was performed as an ISM in accordance with Environmental Protection Agency Office of Solid Waste and Emergency Response (OSWER) Directive No. 9902.3-2A entitled RCRA Corrective Action Plan and dated May 31, 1994. This directive specifies that an ISM is appropriate when: a) the affected material can be isolated; b) a potential exposure threat to receptors exists; c) sufficient information about the site setting exists; and d) appropriate technologies are available to deal with the affected material. The directive provides several examples of appropriate scenarios for an ISM, of which excavation of affected soils is one.

The objective (and result) of the ISM was to remove/treat/decontaminate the ditch to the extent practical, ultimately, in order to help meet the requirements for final measures at the site. Although the ditch is located on property (i.e., a right-of-way) owned by SPTCo, and the property is isolated by a fence, SPTCo elected to implement the ISM based on potential (and not actual) exposure issues. The ISM process provided a means by which SPTCo could pursue a remedy expeditiously, in lieu of the detailed design and review traditionally associated with final measures.

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1.4 SCOPE AND OBJECTIVES

The OSWER Directive states that the overall goal of the ISM process is to "control or abate threats to human health and/or the environment from releases and/or to prevent or minimize the further spread of contamination while long-term remedies are pursued." To satisfy this overall goal, the objective of this ISM was to remove the visibly-affected soil in the ditch. In order to accomplish this objective, the following scope of work was completed:

- The extent of visibly-affected soil in the ditch was assessed.
- Union Pacific Railroad's (UPR's) Englewood Yard Roadmaster was contacted for assignment of a flagman for rail traffic control and a signal manager for underground cable identification.
- Line locator services (Texas One Call and Lone Star Notification) were contacted for further information regarding the locations of underground utilities registered with their respective organizations.
- Storm water in the ditch was removed and stored temporarily in frac tanks.
 Subsequently, storm water samples collected from the frac tanks were analyzed to determine the applicability of discharging the water into the Englewood Yard waste water treatment plant (WWTP).
- Based on a review of storm water analytical results, the storm water contained in the frac tanks was discharged to the Englewood Yard WWTP for treatment.
- Visibly-affected soil in the ditch was classified for waste disposal purposes in accordance with Texas Natural Resource Conservation Commission (TNRCC) and Federal guidelines.
- Visibly-affected soil in the ditch was removed.

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- Excavated soils were properly manifested and transported for off-site disposal.
 In addition, residual solids from the frac tanks used to hold storm water were properly manifested and transported for off-site disposal.
- The excavation was backfilled with clean clay fill and restored to its approximate preconstruction shape and grade to facilitate drainage without ponding.

2.0 DESCRIPTION OF ISM ACTIVITIES

Activities completed during the ISM included pre-mobilization activities and removal action activities. Descriptions of the tasks completed as part of these activities are presented below.

2.1 PRE-MOBILIZATION ACTIVITIES

Pre-mobilization activities for the ISM included: a) assessment of the nature and extent of visibly-affected soil in the ditch; b) arrangement for railroad traffic control and line locator services; and c) classification of affected soils for subsequent disposal.

2.1.1 Nature and Extent Assessment

The preliminary assessment to determine the approximate nature and extent of the visibly-affected soil in the ditch was performed by ERM on September 12, 1997. To assess the lateral and vertical extent of the affected material, cores were collected using a hand auger at 15 discrete locations along the ditch.

The results of hand-auger soil core collection indicated that the affected material generally decreased in abundance with depth and distance from the center of the ditch. Accordingly, it was concluded that the source of the affected material was likely a surface release, rather than a release originating from beneath the ditch (i.e., subsurface). Furthermore, it was noted that the affected material became exposed at the surface of the ditch only during the hotter part of the day.

A sample of the viscous material in the ditch was collected and submitted for analysis for Target Compound List (TCL) volatile organic compounds (VOCs) and TCL semivolatile organic compounds (SVOCs). A second sample of the material was collected and submitted for analysis for Toxicity Characteristic Leaching Procedure (TCLP) RCRA VOCs, RCRA SVOCs, and RCRA metals, reactivity, corrosivity, ignitability, and polychlorinated biphenyls (PCBs). As a Quality Assurance / Quality Control (QA/QC) check, a third sample of the material was collected and submitted for analysis for TCLP RCRA VOCs and corrosivity. The samples were placed into coolers with sufficient ice to maintain a sample temperature of approximately 4°C and transferred to Core Laboratories - Gulf States Analytical in Houston, Texas for analysis. A chain-of-custody form was completed and submitted with the samples.

Table 2-1 provides a summary of the results of analyses performed to help determine the nature of the affected material. The results of the laboratory analyses indicate that the material is petroleum-based (i.e., principal constituents are polynuclear aromatic hydrocarbons and dibenzofurans). A copy of the laboratory analytical report is included in Appendix A.

2.1.2 Traffic Control and Line Locator Services

Prior to conducting excavation activities, Texas One Call and Lone Star Notification, both independent line locator services, were contacted in order to identify and mark the locations of underground utilities registered with their respective organizations. In addition, UPR representatives were contacted to identify and mark the locations of underground utilities relating to railroad operations.

One UPR signal line was located and marked along the southern portion of the ditch. Excavation activities did not extend laterally to the line location.

To aid in rail traffic control, UPR provided a flagman. The flagman remained at the ISM removal site throughout the duration of construction activities.

2.1.3 Classification of Affected Soils

The results of analyses for TCLP parameters, RCI and PCBs were used to determine the waste classification for the material targeted for removal. A summary of these results, together with a comparison of the results to the hazardous thresholds in 40 CFR §261, is presented in Table 2-2. Based on these results, the material was classified as nonhazardous for disposal purposes. A copy of the analytical report is presented in Appendix A. It should be noted that the material represented by this data was removed as part of the ISM activities, and is no longer present in the ditch.

2.2 REMOVAL ACTION ACTIVITIES

Removal action activities completed during the ISM included: a) management and removal of storm water in the ditch; b) excavation and disposal of visibly-affected soils; and c) backfilling and grading of the ditch.

2.2.1 Storm Water Management and Removal

Storm water management and removal activities for the ISM entailed containment and temporary storage of storm water, sampling and analysis of the water, and disposal of the stored water. Prior to initiation of removal activities, the ditch work area was isolated from storm water run-on and run-off by placement of earthen isolation dikes at the east (i.e., upper) and west (i.e., lower) ends of the ditch section to be excavated. Additionally, two absorbent oil booms were placed across the ditch approximately 25 feet apart, immediately downstream of the western isolation dike.

Two portable frac tanks were set up on site to receive and store storm water from the work area. The storm water that was stored included water standing in the ditch section prior to excavation and water accumulating in the ditch section

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during excavation activities. The ground in the work area was saturated due to recent rains prior to construction, creating an almost continuous seepage of water into the excavation. Additionally, rain occurred on several days during the construction period, creating additional water to manage. A total of approximately 17,700 gallons of storm water was removed from the ditch and stored in the frac tanks prior to disposal.

Based on discussions with UPR, the applicability of receiving, treating and discharging the storm water at UPR's Englewood Yard WWTP was evaluated. The standard operating procedure for the WWTP is to discharge treated effluent into the City of Houston sanitary sewer. The water in the frac tanks was sampled in order to comply with the City of Houston ordinance for disposal of industrial wastewater through the city sanitary sewer system. The discharge limits were referenced from City of Houston Industrial Waste Ordinance Article V, Section 47-194. A copy of the relevant section is included as Appendix B.

The water samples from the frac tanks were composited according to the respective volumes in the two tanks and placed into coolers with sufficient ice to maintain a sample temperature of approximately 4°C. The samples were transferred under chain-of-custody control to Core Laboratories - Gulf States Analytical in Houston, Texas for analysis. In order to comply with the City of Houston ordinance, the following analyses were performed:

- TCL VOCs by SW-846 Method 8260
- TCL SVOCs by SW-846 Method 8270B
- RCRA Metals (plus Nickel and Zinc) by SW-846 Methods 6010A and 7470A
- Reactivity by SW-846 Interim Method
- Corrosivity by SW-846 9040A
- Ignitability by SW-846 Method 1010
- Oil and Grease by EPA Method 413.1
- Total Suspended Solids by EPA Method 160.2
- Total Dissolved Solids by EPA Method 160.1
- Chemical Oxygen Demand by EPA Method 410.4
- Biochemical Oxygen Demand by EPA Method 405.1

Based on a comparison of the reported analytical results to the City of Houston discharge requirements, the storm water was suitable for discharge into the UPR Englewood Yard WWTP. The City of Houston was also contacted to verify the applicability of discharging the water. A copy of the laboratory analytical report is included in Appendix A.

The water was manifested and transported by vacuum truck to the Englewood Yard WWTP on Friday, December 19, 1997. The water was discharged into the plant inlet sump for treatment and discharge into the City of Houston sewer system according to standard plant protocol. The two frac tanks were washed internally, and the wash water was contained in eight 55-gallon drums. The drums were manifested, transported and disposed in the UPR Englewood Yard WWTP. One final load of residual solids removed from the bottom of the two frac tanks after the tanks were emptied of water was manifested and transported for disposal at Waste Management's Atascocita Landfill.

Copies of the manifests for the storm water, frac tank wash water, and frac tank residue are included in Appendix C. The frac tanks were demobilized on Tuesday, January 6, 1998 after the tanks were verified to be clean, based on visual inspections by EnviroClean.

2.2.2 Soil Removal

Visibly-affected soil was excavated from the ditch beginning near the southwest corner of the site and extending westward for approximately 400 feet. A trackhoe was used to slowly excavate soils from the initial point of excavation in order to determine the depth required to remove visibly-affected material. The average depth of removal was approximately three feet. It should be noted, however, that the extent of soil removal was determined by visual identification of affected material, rather than by a design depth or distance from the ditch.

Tandem axle, 14-cubic yard dump trucks were backed down the north railroad tracks, which had been taken out of service to facilitate the excavation work, for loading. Care was taken to reduce the amount of excavated material dropped onto the ground or rail ballast. If dropped, the material was immediately retrieved and placed back into the excavation. Each dump truck was loaded by the trackhoe with approximately 12 cubic yards of material.

A total of 71 truck loads of material, including a total of approximately 850 cubic yards of soil and other rubbish materials (e.g., vegetation, municipal trash, sheet piling), were manifested and transported to the Waste Management, Inc. Atascocita Landfill for disposal. Copies of the manifests are included in Appendix C.

2.2.3 Backfilling and Grading Activities

Clean clay was obtained by USA Environmental for use as backfill material for the ditch. The backfill was stockpiled temporarily in a laydown area (designated by UPR) near the southwest corner of the site while the ditch excavation was being completed. Upon completion of the excavation and visual verification that affected soil had been removed, backfilling of the ditch excavation began, working westward from the east end of the ditch.

A total of approximately 750 cubic yards of clay fill was placed in the ditch excavation using a rubber-tired loader to transport the material from the stockpile to the excavation. An angle-blade dozer was used to place and spread the clay fill to a rough grade along the ditch. Compaction of the clay fill was accomplished by the placement equipment traveling over the fill. Final grading was performed by the trackhoe using a smooth-edge cleanout bucket and working east (i.e., upslope) from the west end of the ditch. The grading was completed to conform approximately to the preconstruction shape and grade of the ditch to facilitate drainage without ponding. The oil containment booms placed prior to initiation of soil removal activities were left in place.

3.0 PROJECT HEALTH AND SAFETY

ERM prepared a site specific Health and Safety Plan (HASP) in accordance with health and safety standard operating procedures and guidelines, and in accordance with requirements set forth in 29 CFR §1910.120 entitled Hazardous Waste Operations and Emergency Response. The purpose of the HASP was to assign responsibilities, establish personnel protection standards, specify safe operating procedures, and provide for contingencies that might arise during remedial activities at the site.

There were no injuries or safety related incidents during the ISM activities.

4.0 RESULTS AND CONCLUSIONS

4.1 RESULTS

Visibly-affected soil and ponded storm water was removed from the Southern Drainage Ditch beginning near the southwest corner of the site and continuing approximately 400 feet to the sheet pile weir southwest of the site. The extent of soil removal was determined during the excavation process by continuing the excavation laterally and vertically until the visibly-affected soil was removed from the ditch. Following removal of visibly-affected material, the ditch was backfilled with clean fill and graded to the approximate original ditch grade.

As reported to the TNRCC in a letter from Southern Pacific Lines, dated June 27, 1995, a similar removal action was completed for a length of the ditch extending approximately 290 feet west of the sheet pile weir. Based on the report submitted to the TNRCC, the material removed from the ditch was of a similar nature.

4.2 CONCLUSIONS

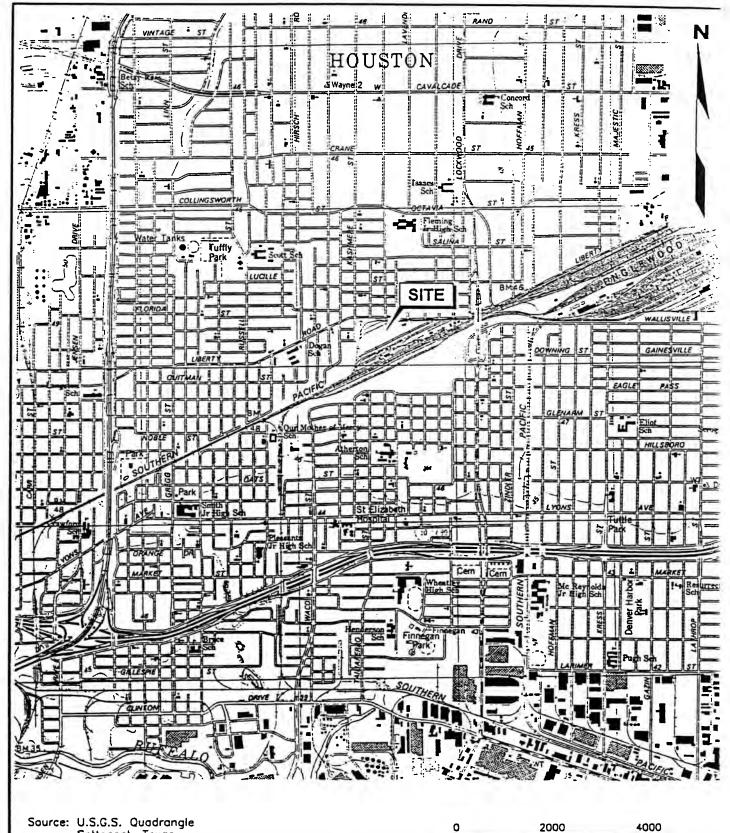
The overall ISM goal was to "control and/or abate threats to human health and/or the environment from releases and minimize the further spread of contamination while long-term remedies are pursued" (RCRA Corrective Action Plan). The removal of visibly-affected soils from the ditch achieved this goal. In addition, this ISM and the 1995 soil removal action can be incorporated into final measures for the site.

4.3 FUTURE ACTIVITIES

Whereas the visibly-affected material in the ditch has been removed, the Southern Drainage Ditch will be further investigated to determine the nature and extent of potential releases of constituents to underlying soil and ground water in this area during subsequent activities completed in accordance with the ongoing RCRA Facility Investigation (RFI) for the site.

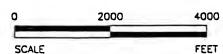
Based on the results and conclusions described herein, the remedial activities completed during this ISM and during the 1995 soil removal action can be incorporated into the final remedy recommended for this SWMU.

Figures



Settegast, Texas

7.5 Minute Series (Topographic)





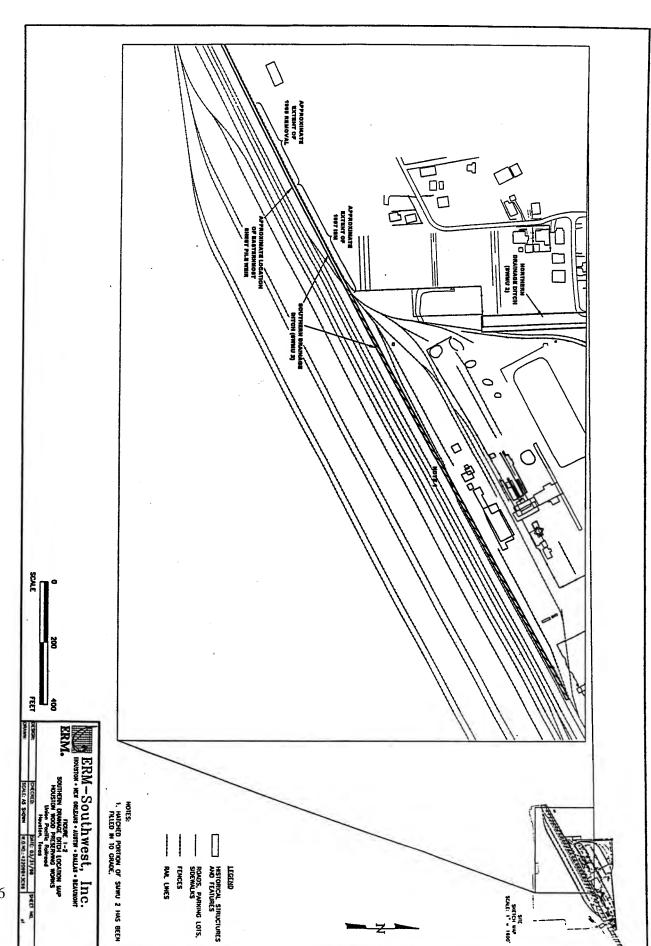
ERM-Southwest, Inc.

ERM.

DATE: 11/17/97

W.O.NO.: 42209A17

FIGURE 1-1 SITE LOCATION MAP Houston Wood Preserving Works Houston, Texas



Tables

TABLE 2-1

Summary of Analytical Results - Total Constituent Analyses Interim Stabilization Measures

Houston Wood Preserving Works Houston, Texas

Analytical Parameter (a)	Unit	Reported Result
Sample ID: South Ditch #1		
Volatiles by SW-846 Method 8260A		
Acetone	mg/kg	. 1 J
Ethylbenzene	mg/kg	1.2 J
Xylenes, Total	mg/kg	3.2
Semivolatiles by SW-846 Method 8270 Acenaphthene	mg/kg	3,200
Anthracene	mg/kg	2,400
Dibenzofuran	· mg/kg	2,300
Fluoranthene	mg/kg	7,000
Fluorene	mg/kg	4,200
Phenanthrene	mg/kg	16,000
Pyrene	mg/kg	4,500

NOTES:

- J = Reported results is above the Method Detection Limit, but below the laboratory Limit of Quantitation (LOQ).
- (a) The sample was analyzed for Target Compound List volatile and semivolatile organics. Constituents not listed in this table were reported below the laboratory LOQ.

TABLE 2-2

Summary of Analytical Results - Waste Characterization Analyses Interim Stabilization Measures

Houston Wood Preserving Works Houston, Texas

Analytical Parameter (a)	Unit	Reported Result	Hazardous Threshold (b)
Sample ID: South Ditch #2			
Reactivity by SW-846 Interim Method			
Reactive Cyanide Reactive Sulfide	mg/kg mg/kg	ND (0.5) ND (5)	Detection Detection
Corrosivity by SW-846 Method 9045	·		
pH ·	Std. Units	8.01	<2.1 or >12.4
Ignitability by In-house Method			
Flashpoint	(Y/N)	>225 deg. F	<140 deg. F
PCBs by SSW-846 Method 8080			
none reported as detected above LOQ			
TCLP Metals by SW-846 Methods 6010A/7470			
Barium	mg/L	0.7	100.0
TCLP Volatiles by SW-846 Method 8260A			
none reported as detected above LOQ			gorquia
TCLP Semivolatiles by SW-846 Method 8270			
m,p-Cresol	mg/L	0.12	200
o-Cresol	mg/L	0.02	200
Sample ID: South Ditch #3			
Corrosivity by SW-846 Method 9045			
рН	Std. Units	8.30	<2.1 or >12.4
TCLP Volatiles by SW-846 Method 8260A			
Trichloroethylene	mg/L	0.16	0.5

NOTES:

ND (0.05) = Not Detected above the laboratory Limit of Quantitation indicated in parentheses.

- (a) TCLP volatile and semivolatile organics and metals include those parameters listed in 40 CFR 261 (excluding pesticides and herbicides). Parameters not included in this table were reported at concentrations less than the laboratory Limit of Quantitation.
- (b) Thresholds referenced from 40 CFR 261. Wastes with values exceeding the hazardous thresholds are considered to be characteristically hazardous wastes.

Laboratory Analytical Reports Appendix A

April 27, 1998 W.O. #422-09

Environmental Resources Management 16300 Katy Freeway, Suite 300 Houston, Texas 77094-1611 (281) 579-8999

Storm Water Analytical Results



GULF STATES ANALYTICAL

ANALYSIS SUMMARY REPORT (Revised 12/16/97)

ERM-Southwest, Inc. 16300 Katy Freeway, Ste. 300 Houston, TX 77094-1609

Date Reported: 12/15/97 Date Received: 11/24/97

34522

Attn:

Mr. Bill Huff Project: UP-HWP

GSA Group:

Purchase Order:

Project No.: 6004-72

Revised to include the additional analysis of total cyanide and total

Test	Analysis	Results as Received	Units	Limit of	Date Extracted	/
Sampl	e:179414 - 11/24/97 - HNP Discharge			Quantitation	Analyzed	Anal
ICWIA	Metals by ICP, Trace					
	Arsenic					
	Cadmium	0.03	mg/1		•	
	Chromium	NO	mg/1 mg/1	0.01	12/07/97	CK
•	Copper	· NO	mg/l	0.005	12/07/97	CK
	Lead	NO	mg/1	0.01	12/07/97	CX
	Nickel	ND	ag/]	0.010	12/07/97	CK
	Selenium	NO	Bg/]	0.01	12/07/97	CK
	Silver	NO	mg/l	0.02	12/07/97	CK
	Zinc	ND	mg/l	0.015	12/07/97	CX
02592		0.148	mg/1	0.005	12/07/97	CK
0206	Mercury by Cold Vapor AA, SW-846	ND	10 - 10 - 10 - 10	0.020	12/07/97	CK
	+ - ret Suspended Colis	23	mg/1	0.00050	12/02/97	CK
0231	Total Dissolved Solids	269	mg/]	4	11/25/97	យ
0234	Oil and Grease, Gravimetric	ND	ng/]	10	11/25/97	ហ
0235	Chemical Oxygen Demand	104	ng/1	5	12/02/97	BKB
02427	Biochemical Oxygen Demand	20	mg/i	10	12/01/97	MLH
0430	Cyanide, Automated Flashpoint	ND	mg/1 mg/1	10	11/24/97	TL
04963	Some equal to a	> 212	deg. F	0.02	12/12/97	IP
5230	Corrosivity by pR	7.55			12/04/97	ES
6754	Sulfide, Mid Level	ND OM	Std. Units	4.44	11/24/97	TL
0,24	Reactivity - Cyanide and Sulfide		mg/T	1	12/11/97	IP
5	Sulfide	NO	mg/]	10	11/26/97	••
8260C T	Colatiles, TCL OLM03.1 List	ND	mg/1	50	11/26/97	IP
2	cetone			30	11/20/9/	IP
E	enzene	0.08	ng/]	0.01	12/00/07	•
E	romodichloromethane	0.008	mg/l		12/08/97	HV
B	romoform	ND	mg/1		12/08/97	HV
3	romomethane (Methyl bromide)	NO	mg/T		12/08/97	HV
2	-Butanone (MEK)	ND	mg/1		12/08/97	HV
C	arbon disulfide	ND	mg/1		12/08/97	HV
C	arbon tetrachloride	NO	mg/1		12/08/97	HV
C	blorodibromomethane	NO	mg/1		12/08/97 12/08/07	HV
G COH 0		NO	mg/l		12/08/97 12/08/97	HV HV

ANALYSIS SUMMARY REPORT

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ERM-Southwest, Inc.

GSA Group:

34522

	•				Date	
		Results		Limit of 1	Extracted	,
Test	Analysis	as Received	Units	Quantitation		
Samol	e:179414 - 11/24/97 - HWP Discharge					
8260C	Volatiles, TCL OLM03.1 List					
	Chlorobenzene					
		NO	mg/l	0.005	12/08/97	HV
	Chloroethane (Ethyl chloride) Chloroform	. NO	mg/1	0.005	12/08/97	HV
	Chloromethane (Methyl chloride)	NO	mg/l	0.005	12/08/97	HV
	1,1-Dichloroethane	NO	mg/l	0.01	12/08/97	HV
	1,2-Dichloroethane	NO	mg/1	0.005	12/08/97	HV
	1,1-Dichloroethene	NO 170	mg/1	0.005	12/08/97	HV
	1,2-Dichloroethene (total)	NO	ng/1	0.005	12/08/97	HV
	1,2-Dichloropropane	NO	mg/1	0.005	12/08/97	HV
	cis-1,3-Dichloropropene	ND	n g/1	0.005	12/08/97	HV
	cra-r'a-nroutorobene	NO	mg/1	0.005	12/08/97	HV
	trans-1,3-Dichloropropene Ethylbenzene	ND	mg/]	0.005	12/08/97	HV
	2-Hexanone	0.027	mg/1	0.005	12/08/97	HV
	Dichloromethane	ND	ag/1	0.01	12/08/97	HV
(, ND	ng/1	0.005	12/08/97	HV
	4-Methyl-2-pentanone (MTBK) Styrene	NO	ng/1	0.01	12/08/97	HV
	1,1,2,2-Tetrachloroethane	NO	mg/1	0.005	12/08/97	HV
	Tetrachloroethene	NO	mg/1	0.005	12/08/97	HV
	Toluene	NO	.mg/T	0.005	12/08/97	HV
	1,1,1-Trichloroethane	0.055	mg/1	0.005	12/08/97	HV
	1,1,2-Trichloroethane	ND	mg/1	0.005	12/08/97	HV
	Trichloroethene	NO	ng/T	0.005	12/08/97	HV
	Vinyl chloride	NO	ing/T ·	0.005	12/08/97	HV
	-	Ю	mg/1	0.005	12/08/97	HV
0977	Xylene (total) Semivolatiles, TCL List	0.14	mg/1	0.02	12/08/97	HV
42424	Acenaphthene		_			
	Acenaphthylene	0.23	mg/1	0.01	12/04/97	NG
	Anthracene	0.01	mg/T	0.01	12/04/97	NG
	Benzo (a) anthracene	0.04	mg/T	0.01	12/04/97	NG
	Benzo (b) fluoranthene	0.01	mg/1	0.01	12/04/97	NG
	Benzo (k) fluoranthene	NO In	mg/T	0.01	12/04/97	NG
	Benzo (ghi) perylene	NO	ag/l	0.01	12/04/97	NG
	Benzo (a) pyrene	NO	mg/ 1	0.01	12/04/97	NG
	bis (2-Chloroethoxy) methane	NO 	mg/1	0.01	12/04/97	NG
	bis (2-Chloroethyl) ether	NO	mg/1	0.01	12/04/97	NG
		NO	mg/1	0.01	12/04/97	NG
	bis(2-Ethylhexyl)phthalate	NO	mg/1	0.01	12/04/97	NG
	4-Bromophenyl-phenylether Butylbenzyl phthalate	NO	mg/ 1	0.01	12/04/97	NG
	Carbazole phinalate	0.01	mg/1	0.01	12/04/97	NG
	4-Chlorosniline	0.02	mg/1	0.01	12/04/97	NG
	4-Chloro-3-methylpRenol	ND	mg/1	0.01	12/04/97	NG
		NO	mg/1	0.01	12/04/97	NG

ANALYSIS SUMMARY REPORT

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ERM-Southwest, Inc.

GSA Group:

34522

	4 2				Date	
		Results		Limit of	Extracted,	/
Test	Analysis	as Received	Units	Quantitatio	n Analyzed	Analys
C1	e:179414 - 11/24/97 - HWP Discharge					
	Semivolatiles, TCL List					
03231	2-Chloronaphthalene	МО	mg/1	0.01	12/04/97	NG
	2-Chlorophenol	NO	mg/l	0.01	12/04/97	NG.
	4-Chlorophenyl-phenylether	NO NO	mg/1	0.01	12/04/97	NG NG
	Chrysene Chrysene	0.01	mg/l	0.01	12/04/97	NG NG
	o-Cresol (2-Methylphenol)	. 0.01	mg/1	0.01	12/04/97	NG
	p-Cresol (4-Methylphenol)	0.01	mg/1	0.01	12/04/97	NG
	Di-n-butyl phthalate	ND	mg/1	0.01	12/04/97	NG
	Dibenzo (a, h) anthracene	NO	mg/1	0.01	12/04/97	NG
	Dibenzofuran	0.08	mg/1	0.01	12/04/97	NG
•	1,2-Dichlorobenzene	NO NO	mg/1	0.01	12/04/97	NG
	1.3-Dichlorobenzene	NO ON	mg/l	0.01	12/04/97	NG
	1,4-Dichlorobenzene	NO	mg/1	0.01	12/04/97	NG
	3,3'-Dichlorobenzidine	ND	mg/1	0.02	12/04/97	NG
	2,2'-oxybis(1-Chloropropane)	NO OM	mg/l	0.01	12/04/97	NG
	2,4-Dichlorophenol	NO	mg/l	0.01	12/04/97	NG
	Diethylphthalate	NO	mg/l	0.01	12/04/97	NG
	2,4-Dimethylphenol	0.02	mg/1	0.01	12/04/97	NG
	Dimethylphthalate	ND	mg/1	0.01	12/04/97	NG
	4,6-Dinitro-o-cresol	NO	mg/l	0.05	12/04/97	NG
	2,4-Dinitrophenol	ND	mg/1	0.05	12/04/97	NG
	2,4-Dinitrotoluene	CN	mg/1	0.01	12/04/97	NG
	2,6-Dinitrotoluene	NO	mg/1	0.01	12/04/97	NG
	Di-n-octyl phthalate	NO	ng/1	0.01	12/04/97	NG
	Fluoranthene	0.11	ag/1	. 0.01	12/04/97	NG
	Fluorene	0.10	mg/1	0.01	12/04/97	NG
	Hexachlorobenzene	NO	mg/1	0.01	12/04/97	NG
	Hexachlorocyclopentadiene	NO	mg/1	0.01	12/04/97	NG
	Hexachloroethane	NO	mg/1	0.01	12/04/97	NG
	Hexachloro-1,3-butadiene	NO	mg/ 1	0.01	12/04/97	NG
	Indeno (1,2,3-cd) pyrene	NO	mg/1	0.01	12/04/97	NG
	Isophorone	ND	mg/1	0.01	12/04/97	NG
	2-Methylnaphthalene	0.05	mg/l	0.01	12/04/97	NG
	Naphthalene	0.02	mg/1	0.01	12/04/97	NG
	2-Nitroaniline	MD	mg/1	0.01	12/04/97	NG
	3-Nitroaniline	ON	ng/1	0.01	12/04/97	NG
	4-Nitroaniline	ND	mg/1	0.01	12/04/97	NG
	Nitrobenzene	NO	mg/1	0.01	12/04/97	NG
	2-Nitrophenol	NO	mg/l	0.01	12/04/97	NG
	4-Nitrophenol	NO	mg/1	0.05	12/04/97	NG
	N-Nitrosodiphenylamine	ND	mg/1	0.01	12/04/97	NG
	N-Nitrosodi-n-propylamine	ND	mg/1	0.01	12/04/97	NG

KG COH 002404

ANALYSIS SUMMARY REPORT

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ERM-Southwest, Inc.

GSA Group:

34522

Test	Analysis	Results as Received	Units	Limit of Quantitation	Date Extracted, Analyzed	
Sampl	.e:179414 - 11/24/97 - HWP Disc	:harge				
09231	Semivolatiles, TCL List	_				
	Pentachlorophenol	NO	mg/l	0.05	12/04/97	NG
	Phenanthrene	0.06	mg/1	0.01	12/04/97	NG
	Phenol	NO	mg/l	0.01	12/04/97	NG
	Pyrene	0_04	mg/1	0.01	12/04/97	NG
	1,2,4-Trichlorobenzene	ND	mg/1	0.01	12/04/97	NG
	2,4,5-Trichlorophenol	NO	mg/T	0.01	12/04/97	NG
	2,4,6-Trichlorophenol	ND	mg/1	0.01	12/04/97	NG
Test	Method Summary:					
0206	- EPA 160.2	212 - EPA 160.1		0231 - EPA	413.1	
0234	- EPA 410.4 02	235 - EPA 405.1	5 ·	0242L- EPA	335.3	
02592	L- SW-846 7470A . 04	130 - SW-846 1010		0496A- SW-8		
09231	- SW-846 8270B 52	230 - EPA 376.1		6754 - SW-8	46 INTERI	M MOD
82600	:- SW-846 8260A IC	TWTA- SW-846 6010A				

ND - Compound was analyzed but not detected.

KG COH 002405

Respectfully Submitted, Reviewed and Approved by:

Hector Coronado Project Manager

12/08/97 18:05:18 Group: 345

Analysis Batch Number: 0206 -11/25/97-1226-1

Test Identification : 0206 -Total Suspended Solid

BLANK#	ANALYTE	CONC FCUND	# LMT OF O	UANTITATIO	v	
8LK-112597	Total suspended solids	ND	-	4.0000		
BLK-112597-2	Total suspended solids	NO		4.0000		
DUPLICATE						
SAMPLE#	ANALYTE	RESULT 1	RESULT 2	000 #		
34502-179354	Total suspended solids	0.0000	0.0000	RPD #		ILUTION
	2Total suspended solids	2.0000	2.0000	0.0	20.0 20.0	1.00
34550-1 795 55-	3Total suspended solids	2.0000	2.0000	0.0	20.0	1.00 1.00
CONTROL				•	00 1 11/17	-
SAMPLE#	ANALYTE	CONC FOUND	CONC KNOWN	y ocr 4	QC LIHIT	
LCS-112597	Total suspended solids	1000.0000	1096.0000	₹ REC # 91.2	LOWER UPP	
LCS-112597-2	Total suspended solids	986.0000	1096.0000	90.0	80.0 12 80.0 12	

34496-179348 34504-179356 34552-179560	24202-113221	24209-113228	34499-179351 34507-179359	34500-179352 34518-179406	34501-179353 34522-179414	34502-179354 34529-179428	34503-179355 34550-179555
34552-179560	34553-179561	34554-170E62				24252-112450	34330-T\ADD2

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Core Lab-Gulf States Analytical Daily QC Batching Data Data Released for Reporting

12/08/97 18:05:19

Group: 345

Analysis Batch Number: 0212 -11/25/97-1226-1

Test Identification : 0212 -Total Dissolved Solids

Units: mg/l

Sequence:

Number of Samples : 10

Batch Data-Date/Time : 12/01/97 / 09:05:35

8LANK# BLK-112597	ANALYTE Total dissolved solids	ND CONC FOUND	ND # LHT OF QUANTITATION 10.0000				
DUPLICATE SAMPLE#	ANALYTE	RESULT 1	RESULT 2	RPD #	LIHIT	DILUTION	
34492-179301		297.0000	298.0000	0.3	20.0	1.00	
34515-179396	-ZTotal dissolved solids	667.0000	668.0000	0.1	20.0	1.00	
CONTROL					QC LII	HITS	
SAMPLE#	ANALYTE	CONC FOUND	CONC KNOWN	X REC #	LOWER	UPPER	
LCS-112597	Total dissolved solids	3686.0000	3629.8000	101.5	90.0	110.0	

Groups & Samples

34492-179301 34492-179303 34492-179306 34492-179308 34492-179310 34492-179297 34492-179299

34518-179408 34522-179414

12/08/97 18:05:19 Group: 345

Analysis Batch Number: 0231 -12/02/97-1204-1

Test Identification : 0231 -0il and Grease. Gravimetric

Units: mg/1

Sequence:

Number of Samples : 15

Batch Data-Date/Time : 12/03/97 / 11:09:22

BLANK# BLK-120297	ANALYTE 011 & Grease		OF QUANTITATION	
الكارية	011 & di 5036	ND	5.0000	
SPIKE		•		QC LIMITS
SAMPLE#	ANALYTE	CONC ADDED CONC SA	MPLE CONC SPIKE	
34662-180132	011 & Grease		7801 1150.5435	
DUPLICATE SAMPLE#	ANALYTE	RESULT 1 RESU	17 000 A 1	TUTT BY GROW
34522-179414				INIT DILUTION 20.0 1.00
CONTROL			,	QC LIHITS
SAMPLE#	ANALYTE	CONC FOUND CONC K		•
LCS-120297	011 & Grease	995.9000 1017		OMER UPPER

Groups & Samples

34515-179397 34602-179877	34516-179398 34607-179886	34516-179399 34607-179887	34516-179400	34516-179401	34522-179414	34587-179750	34591-179759
24005-113011	3400/-1/9880	34607-179887	34638-180075	34540-180080	34662 • 180132	34662 - 180134	

12/08/97 18:05:20 Group: 34522

Analysis Batch Number: 0234 -12/01/97-9920-1

Test Identification : 0234 -Chemical Oxygen Demand

Units: mg/l

Sequence:

Number of Samples : 6

Batch Data-Date/Time : 12/01/97 / 17:24:34

BLANK#	ANALYTE	CONC FOUND	# LMT OF O	UANTITATION	ı	
BLK-120197	Chemical oxygen demand	0.1418		0.0000	-	
BLK-120197-2	Chemical oxygen demand	ND .		0.0000		
		110	1	0.0000		
SPIKE						
SAMPLE#	ANALYTE	CONC 100CD				OC LIMITS
34587 - 179751		CONC ADDED	CONC SAMPLE	CONC SPI		LOWER UPPER
24301.113131	Chemical oxygen demand	75.0000	48.7234	130.07	709 108.5	80.0 120.0
DUDI TOATT				•		
OUPLICATE	· · · · · · · · · · · · · · · · · · ·					
SAMPLE#	ANALYTE	RESULT 1	RESULT 2	RPD #	LIHIT DILUTI	ON
34587 - 179751	Chemical oxygen demand	48.7234	43.4043	11.5	20.0 1.0	
					200	•
CONTROL					QC LIHITS	
SAMPLE#	ANALYTE	_CONC FOUND	CONC KNOWN	Y DCC A		
LCS-120197	Chemical oxygen demand			X REC #	LOWER UPPER	
LCS-120197-2		46.9504	50.0000	93.9	90.0 110.0	
rra-150131.5	Chemical oxygen demand	48.0142	50.0000	96.0	90.0 110.0	
~ .			•	QC LI	ETIHI	
CA #	ANALYTE	TRUE VALUE	BATCH READ	* REC #	LOWER UPPER	
CV-120197	Chemical oxygen demand	75.0000	71.4184	95.2	90.0 110.0	

Groups & Samples

34518-179407 34522-179414 34529-179429 34587-179751 34592-179760 34602-179877

12/08/97 18:05:21

Group: 3452

Analysis Batch Number: 0235 -11/24/97-1121-1

Test Identification : 0235 -Biochemical Oxygen Demand

Units: mg/l .

Sequence:

Number of Samples :

Batch Data-Date/Time : 12/01/97 / 10:50:33

BLANK#	ANALYTE	CONC FOUND #	LHT OF QU	MOITATITAL	l	
8LK-112497	Biochemical oxygen demand	0.0200		3.0000	•	
DUPLICATE						
SAMPLE#	ANALYTE	RESULT 1	RESULT 2	RPO #	LIHIT	DILUTION
34496-179348	Biochemical oxygen demand	0.0000	0.0000	0.0	20.0	1.00
34506-179358-	2Biochemical oxygen demand	0.0000	0.0000	0.0	20.0	1.00
CONTROL					QC LII	HITS
SAMPLE#	ANALYTE	CONC FOUND	CONC KNOWN	* REC #	LOWER (JPPER
LCS-112497	Biochemical oxygen demand	189.3300	200.0000	94.7		115.4

Groups & Samples

				34500-179352			
34504-179356	34505-179357	34506-179358	34507-179359	34509-179379	34510-179382	34510-179383	34511-179386
34511-179387	34522-179414			•			

12/08/97 18:05:22 Group: 34522

Analysis Batch Number: 0259 -12/02/97-1194-1

Test Identification : 0259 - Hercury by Cold Vapor AA

Units: ug/l

Sequence: 0259A-1

RPO # 8.5

Number of Samples : 11

Batch Oata-Oate/Time : 12/02/97 / 14:51:32

BLANK# PBW-120297	ANALYTE Hercury		0.0630		UANTITATION 0.5000	!		
SPIKE SAMPLE# 34629-180036	ANALYTE Mercury	CONC	2 ADOED (CONC SAMPLE 0.0420	CONC SP1		LOWE	LIMITS R UPPER 125.0
MSD SAMPLE# 34629-180036	ANALYTE Mercury	CONC	2 AOOED 0	CONC SAMPLE 0.0420	RESULT		QC L LOWER 75.0	IMITS UPPER F 125.0
DUPLICATE SAMPLE# 34629-180036	ANALYTE Mercury		<u> </u>	RESULT 2 0.0980	RPD # 80.0(11)	LIMIT DILU 20.0 1	TION .00	
CONTROL SAMPLE# LCSW-120297	ANALYTE Hercury		3.0300	CONC KNOWN 3.0000	2 REC # 101.0	QC LIMITS LOWER UPPER 80.0 120.0		
CCV # 1 2 3	ANALYTE Hercury Hercury		3.0000 3.0000 3.0000 3.0000	BATCH READ 2.9480 3.0990 3.1450	QC L1 ** REC # 98.3 103.3 104.8	MITS LOWER UPPER 80.0 120.0 80.0 120.0 80.0 120.0		
***********	cury Result Footnote	_	BATCH DAT 12/02/97		<u>P</u>	·		
(TT) - BOOL O	uplicate results are less than th	e w.						

Groups & Samples

34271-178072 34357-178502 34359-178504 34359-178505 34359-178504T 34522-179414 34557-179566 34557-179567 34557-179568 34629-180035 34629-180036

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Core Lab-Gulf States Analytical Daily QC Batching Data Data Released for Reporting

12/08/97 18:05:23

Group: 34522

Analysis Batch Number: 0430 -12/04/97-1209-1

Test Identification : 0430 -Flashpoint

Number of Samples : 4

Batch Data-Date/Time : 12/04/97 / 13:03:15

Units: deg. F

Sequence:

DUPLICATE

SAMPLE#	ANALYTE	RESULT 1	RESULT 2	RPD #	LIHIT	DILUTION
34654-180113	Ignitability	32.0000	32.0000	0.0	20.0	1.00

CONTROL					QC LIMITS
SAMPLE#	ANALYTE	CONC FOUND	CONC KNOWN	X REC #	LOWER UPPER
LCS-120497	Ignitability	80.0000	81.0000	98.8	97.5 102.5
LCS-120497-2	Ignitability	80.0000	81.0000	98.8	97.5 102.5

Groups & Samples

34522-179414 34531-179431 34531-179432 34654-180113

12/08/97 18:05:24 Group: 345.

Analysis Batch Number: 0496 -11/24/97-1121-1 Test Identification : 0496 -Corrosivity by pH

Batch Data-Date/Time : 11/25/97 / 18:53:17

Number of Samples :

1

Units: Std. Units

7.0000 100.0

7.0000 100.0

Sequence:

90.0 110.0

90.0 110.0

SAMPLE# 34522-179414	ANALYTE pH	RESULT 1 7.5500	RESULT 2 7.5500	RPD #	<u>LIMIT</u> 20.0	DILUTION 1.00
CONTROL SAMPLE# LCS-112497 ICV-112497-2	AVALYTE pH	CONC FOUND 7.0100 6.9800	CONC KNOWN 7.0000 7.0000	* REC # 100.1 99.7	QC LIH LOWER UI 90.0	PPER 110.0
CCV # CCV-112497	ANALYTE ph	TRUE VALUE	BATCH READ	QC LI	LOWER U	

7.0000

7.0000

Groups & Samples

34522-179414

CCV-112497-2 pH

Ditch Material Analytical Results

Pace Analytical

Tel: 281-488-1810 Fax: 281-488-4661

September 28, 1997 Report No.: 00064648 Section A Page 1

LABORATORY ANALYSIS REPORT

CLIENT NAME: ERM SOUTHWEST INC.

ADDRESS: 16300 KATY FREEWAY, SUITE 300

HOUSTON, TX 77094-

ATTENTION: TOM PACIONI

SAMPLE ID: SOUTH DITCH #1

SAMPLE NO: H458566

SAMPLE MATRIX: SOLID

LIMS CLIENT: 0119 0025
PACE PROJECT: H46950
PACE CLIENT: 621284

P.O. NO: 42209

DATE SAMPLED: 12-SEP-97 0745

DATE RECEIVED: 15-SEP-97

PROJECT MANAGER: Elessa Sommers

LN	TEST CODE	DETERMINATION	RESULT	UNIT
1	OVTCS	TCL - Volatiles in Soil	< 1250	ug/
•		1.1.1-Trichloroethane	< 1250	ug/
		1,1,2,2-Tetrachloroethane	< 1250	ug
		1,1,2-Trichloroethane	< 1250	ug
		1,1-Dichloroethane	< 1250	ug
		1,1-Dichloroethene	< 1250	
		1,2-Dichloroethane	< 1250	-
		1,2-Dichloroethene (total)	< 1250	_
		1,2-Dichloropropane	< 2500	
		2-Butanone	< 2500	
		2-Hexanone	< 2500	
	•	4-Methyl-2-pentanone	1,000J	_
		Acetone	< 1250	
		Benzene	< 1250	
		Bromodichloromethane	< 1250	
•		Bromoform	< 2500	
		Bromomethane	< 1250) u
		Carbon disulfide	< 1250	
		Carbon tetrachioride	< 1250) u
		Chlorobenzene	< 2500	
		Chloroethane	< 1250	0 4
		Chloroform	< 250	0 (
		Chloromethane	< 125	0 (
	-	Dibromochioromethane	1,200	
		, Ethylbenzene	470	
		Methylene chloride	800	J I
•		Styrene	< 125	0
		Tetrachloroethene	< 125	50
		Toluene	< 125	50
		Trichloroethene	< 250	00
		Vinyl acetate	< 250	00
		Vinyl chloride	3,20	00
		Xylene(total)	< 12	
		cis-1,3-Dichloropropene 5 trans-1,3-Dichloropropene	< 12	50

Pace Analytical

Tel: 281-488-1810 Fax: 281-488-4661

September 28, 1997 Report No.: 00064648 Section A Page 2

LABORATORY ANALYSIS REPORT

CLIENT NAME: ERM SOUTHWEST INC. SAMPLE ID: SOUTH DITCH #1 SAMPLE NO: H458566

	TEST			
LN	CODE	DETERMINATION	RESULT	UNITS
		***************************************		•••••
		Tel . Caminual atile Externatables in Soil		
3	OSVTCS	ICF - 25Mi-AOCATICE EXCIPCTANCES III 2017	< 2000	mg/kg
		1,2,4-Trichlorobenzene	< 2000	mg/kg
		1,2-Dichlorobenzene	< 2000	mg/kg
		1,3-Dichlorobenzene	< 2000	mg/kg
		1,4-Dichlorobenzene	< 2000	mg/kg
		2,4,5-Trichlorophenol	< 2000	mg/kg
		2,4,6-Trichlorophenol	< 2000	mg/kg
		2,4-Dichlorophenol	< 2000	mg/kg
		2,4-Dimethylphenol	< 2000	mg/kg
		2,4-Dinitrophenol	< 2000	mg/kg
		2,4-Dinitrotoluene	< 2000	mg/kg
		2,6-Dinitrotoluene	< 2000	mg/kg
		2-Chloronaphthalene	< 2000	mg/kg
		2-Chlorophenol	< 2000	mg/kg
		2-Hethylnaphthalene	< 2000	mg/kg
		2-Hethylphenol	< 2000	mg/kg
		2-Nitroaniline	< 2000	mg/kg
		2-Nitrophenol	< 2000	mg/kg
		3,3'-Dichlorobenzidine	< 2000	mg/kg
		3-Nitroaniline	< 2000	
		4,6-Dinitro-o-cresol	< 2000	
		4-Bromophenylether	< 2000	• •
		4-Chloro-3-methylphenol	< 2000	
		4-Chloroaniline	< 2000	
		4-Chlorophenylphenylether	< 2000	• •
		4-Nethylphenol	< 2000	-
		4-Nitroaniline	< 2000	
		4-Nitrophenol	3,200	
		Acenaphthene	< 2000	
		Acenaphthylene	2,400	
		Anthracene	< 2000	_
•		Benzo(a)anthracene	< 2000	
		Benzo(a)pyrene	< 2000	•
		Benzo(b)fluoranthene	< 2000	-
		Benzo(g,h,i)perylene	< 2000	
		Benzo(k)fluoranthene	< 200	• •
		Benzoic acid	< 200	
		Benzyl alcohol	< 200	0 mg/kg
		Butylbenzylphthalate	< 200	0 mg/kg
	T 00241	Chrysene		* 10

KG COH 002416

Tel: 281-488-1810 Fax: 281-488-4661

September 28, 1997 Report No.: 00064648

Section A Page 3

LABORATORY ANALYSIS REPORT

CLIENT NAME: ERM SOUTHWEST INC.
SAMPLE ID: SOUTH DITCH #1
SAMPLE NO: H458566

••••	• • • • • • • • • • • • • • • • • • • •	•		•••••
	TEST			
LN	CODE	DETERMINATION	RESULT	UNITS
*****	•••••	***************************************		
		Di-n-butylphthalate	< 2000	- 3 44
		Di-n-octylphthalate		mg/kg
		Dibenzo(a,h)anthracene	< 2000	mg/kg
		Dibenzofuran	< 2000	mg/kg
		Diethylphthalate	2,300	mg/kg
		Dimethylphthalate	< 2000	mg/kg
		Fluoranthene	< 2000	mg/kg
		Fluorene	7,000	mg/kg
		Hexachlorobenzene	4,200	mg/kg
			< 2000	mg/kg
		Hexachlorobutadiene	< 2000	mg/kg
		Hexachlorocyclopentadiene	< 2000	mg/kg
		Hexachloroethane	< 2000	mg/kg
		Indeno(1,2,3-cd)pyrene	< 2000	mg/kg
		Isophorone	< 2000	mg/kg
		N-Nitrosodi-n-propylamine	< 2000	mg/kg
		N-Nitrosodiphenylamine	< 2000	mg/kg
		Naphthalene	< 2000	mg/kg
		Nitrobenzene	< 2000	mg/kg
		Pentachlorophenol	< 2000	mg/kg
		Phenanthrene	16,000	mg/kg
		Phenol	< 2000	mg/kg
		Pyrene	4,500	mg/kg
		bis(2-Chloroethoxy)methane	< 2000	mg/kg
		bis(2-Chloroethyl)ether	< 2000	mg/kg
		bis(2-Chloroisopropyl)ether	< 2000	mg/kg
		bis(2-Ethylhexyl)phthalate	< 2000	
		and the state of t	· 2000	mg/kg

COMMENTS: J-Reported values are less than the reporting limit.

Pace Analytical

Tel: 281-488-1810 Fax: 281-488-4661

September 28, 1997 Report No.: 00064648 Section A Page 4

LABORATORY ANALYSIS REPORT

CLIENT NAME: ERM SOUTHWEST INC.

ADDRESS: 16300 KATY FREEWAY, SUITE 300

HOUSTON, TX 77094-

ATTENTION: TOM PACIONI

SAMPLE ID: SOUTH DITCH #2

SAMPLE NO: H458567

SAMPLE MATRIX: SOLID

LIMS CLIENT: 0119 0025

PACE PROJECT: H46950

PACE CLIENT: 621284

P.O. NO: 42209

DATE SAMPLED: 12-SEP-97 0745

DATE RECEIVED: 15-SEP-97

PROJECT MANAGER: Elessa Sommers

	TEST			
LN	CODE	DETERMINATION	RESULT	UNITS
••••	••••••		•	
. 1	S903	TCLP Bottle Leaching Procedure	Done	
2	S904	TCLP ZHE Leaching Procedure	Done	
3	OVZHE	Volatiles - ZHE/Part 261	53.12	
		1,1-Dichloroethylene	< 0.05	mg/L
		1,2-Dichloroethane	< 0.05	mg/L
		Benzene	< 0.05	mg/L
		Carbon tetrachloride	< 0.05	mg/L
		Chlorobenzene	< 0.05	mg/L
		Chloroform ·	< 0.05	mg/L
		Hethyl ethyl ketone	< 0.10	mg/L
		Tetrachloroethylene	< 0.05	mg/L
		Trichloroethylene	< 0.05	mg/L
		Vinyl chloride	< 0.10	
5	OTCLP	Semi-volatiles - TCLP/Part 261		
		1,4-Dichlarobenzene	< 0.01	mg/L
		2,4,5-Trichlorophenol	< 0.01	mg/L
		2,4,6-Trichlorophenol	< 0.01	mg/L
		2,4-Dinitrotoluene	< 0.01	mg/L
		Hexach Lorobenzene	< 0.01	mg/L
		Hexach Lorobutadi ene	< 0.01	mg/L
		Hexach Loroethane	< 0.01	mg/L
		Nitrobenzene	< 0.01	mg/L
		Pentachlorophenol	< 0.05	mg/L
		Pyridine	< 0.01	mg/L
		m-Cresol	0.12*	mg/L
	•	o-Cresol	0.02	mg/L
		p-Cresol	•	mg/L
7	AASL	Arsenic, Leachable (As)	< 0.1	-
8	ABAL	Barium, Leachable (Ba)	0.7	-
9	ACDL	Cadmium, Leachable (Cd)	< 0.005	mg/L
10	ACRL	Chromium, Leachable (Cr)	< 0.01	mg/L
11	APBL	Lead, Leachable (Pb)	< 0.05	mg/L
12	AHGL	Mercury, Leachable (Hg)	< 0.0002	mg/L
13	ASEL	Selenium, Leachable (Se)	< 0.1	mg/L

Pace Analytical

Pace Analytical Services, Inc. 900 Gernini Avenue Houston, TX 77058

> Tel: 281-488-1810 Fax: 281-488-4661

September 28, 1997
Report No.: 00064648
Section A Page 5

LABORATORY ANALYSIS REPORT

CLIENT NAME: ERM SOUTHWEST INC. SAMPLE ID: SOUTH DITCH #2

SAMPLE NO: H458567

	TEST		*************	•••••
LN	CODE	DETERMINATION	RESULT	UNITS
14 15 16 17 18 19	AAGL 1278 1750 S091 1490S G122S	Silver, Leachable (Ag) Cyanide, Reactive (HCN) Sulfide, Reactive (as S) Flash Point (Setaflash) Non-aqueous sample pH in Water PCB Analysis PCB-1016 PCB-1221 PCB-1222 PCB-1242 PCB-1248 PCB-1254 PCB-1260 * The compounds m-cresol and p-cresol co-elute. The reported result is	< 0.01 < 0.5 < 5 > 225 8.01 < 330** < 330** < 330** < 330** < 330**	mg/L mg/kg mg/kg
		the sum of the two. ** The sample was analyzed at 1:10 dilution due to the presence of matrix interferences. The detection limit has been adjusted for the dilution.		

Tel: 281-488-1810 Fax: 281-488-4661

September 28, 1997 Report No.: 00064648

Section A Page 6

LABORATORY ANALYSIS REPORT

CLIENT NAME: ERM SOUTHWEST INC.

ADDRESS: 16300 KATY FREEWAY, SUITE 300

HOUSTON, TX 77094-

ATTENTION: TOM PACIONI

SAMPLE ID: SOUTH DITCH #3

SAMPLE NO: H458568 SAMPLE MATRIX: SOLID

LIMS CLIENT: 0119 0025 PACE PROJECT: H46950

PACE CLIENT: 621284

P.O. NO: 42209

DATE SAMPLED: 12-SEP-97 0750

DATE RECEIVED: 15-SEP-97

PROJECT MANAGER: Elessa Sommers

LN	TEST CODE	DETERMINATION	RESULT	UNITS
1 2 3	S903 S904 OVZHE	TCLP Bottle Leaching Procedure TCLP ZHE Leaching Procedure Volatiles - ZHE/Part 261 1,1-Dichloroethylene 1,2-Dichloroethane Benzene Carbon tetrachloride	Done Done < 0.05 < 0.05 < 0.05	mg/L mg/L mg/L
18	1490s	Chlorobenzene Chloroform Methyl ethyl ketone Tetrachloroethylene Trichloroethylene Vinyl chloride Non-aqueous sample pH in Water	< 0.05 < 0.05 < 0.05 < 0.10 < 0.05 0.16 < 0.10 8.30	mg/L mg/L mg/L mg/L mg/L mg/L

Pace Analytical

INVOICE

Number: 85020540

Date: 29-SEP-97

Sold To:

ERM SOUTHWEST, INC. 16300 KATY FREEWAY, SUITE 300 HOUSTON , TX 77094 -Attention: BRUCE WOODHOUSE Report sent to: TOM PACIONI

Please Remit To:

Pace Analytical Services, Inc. NW 8922 PO Box 1450 Minneapolis, Mn 55485-8922

40.000	Purchase Order No	Project Manager	Terms	Page N
621284	42209	Elessa Sommers		
440	DETALLED	***************************************		
	Received: 15-SEP-97	INVOICE		
	Pace Project: H46950		<u>;</u>	<u> </u>
· .	3 Samples: H458566 - H458568	(7)	= 1	
٠.	LIMS Client: 0119 0025			
	H458566 SOUTH DITCH #1			
	OSVICS ICL - Semi-volatile Ev	tractables in sail		
	Volume in the volatiles in the	andares in soil		\$175.00
	Rush Charge (50%)			\$75.00
				\$135.00
		Sample Total:		\$405.00
• •	H458567 SOUTH DITCH #2			. <u>.</u>
	AAGL Silver, Leachable (Ag)			-
	AASL Arsenic, Leachable (As)		4	\$8.00
	ABAL Barium, Leachable (Ba)	-1	•	\$8.00
	ACDL Cadmium, Leachable (Cd)	•	ì	\$8.00
	ACRL Chromium, Leachable (Cr	,	ŀ	\$8.00
	ANGL Mercury, Leachable (Hg)	: '		\$8.00
V - 61	APBL Lead, Leachable (Pb)		•	\$14.00
	ASEL Selenium, Leachable (Se			\$8.00
	G122S PCB Analysis			\$8.00
	1278 Cyanide, Reactive (HCN)			\$90.00
2.42	1490S Non-aqueous sample of in	Water		\$31.25
1 STATE	1/30 Sulfide, Reactive (as S	。 第一章 1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年		\$12.50
3607-245	OICLP Semi-volatiles - TCLP/P	Pt 241		\$31.25
	VVLTE Volatiles - ZHE/Part 26		\$\$\$ 12 kg 1 1	\$218.75
	SUYI Flash Point (Setaflash)	the contract of the contract o		\$106.25
	Syus TCLP Bottle Leaching Pro	Cedure	A	\$43.75
	S904 TCLP ZHE Leaching Proces	ure		\$62.50
	H-1			\$62.50 .
-		Sample Total:		- Sandarda de Labora (n. 1900)
4.	458568 SOUTH DITCH #3			\$728.75
, in				
	1490S Non-aqueous sample_pH in	Water	".	
·			1	\$T2.50
• •	;			
			<u> </u>	
	:			• •
OII 002421	•		·. '	
COH 002421			1	
		94 4	Ì	
į	•	· /	<u>I</u>	



INVOICE

Number: 85020540

Date: 29-SEP-97

Sold To:

ERM SOUTHWEST, INC. 16300 KATY FREEWAY, SUITE 300 HOUSTON , TX 77094 -

Attention: BRUCE: HOOD HOUSE

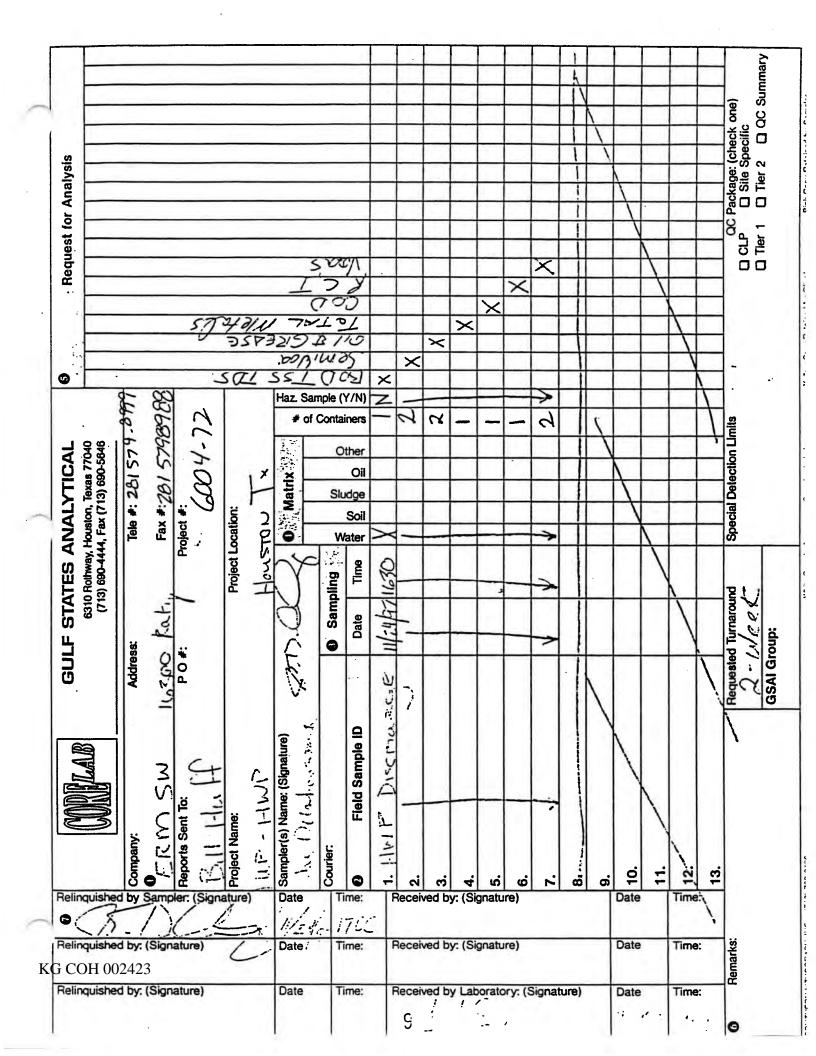
Please Remit To:

Pace Analytical Services Inc. NW 8922

PO Box 1450

Minneapolis, Mn 55485-8922,

Client No.	Purchase Order No Project Manager	Terms C	Page No
621284	42209 Elessa Sommers		2
	H458568 SOUTH DITCH #3 OVZHE Volatiles - ZHE/Part 261 S903 TCLP Bottle Leaching Procedure S904 TCLP ZHE Leaching Procedure Charge for sample prep, TCLP Semi-volatiles & PCB's (\$40%)		\$106.25 \$62.50 \$62.50 \$123.50
	Sample Total: Invoice Total:		\$367.25 \$1,501.00
			í
СОН 002422	3		



Units: ug/l

Sequence: s337a.bQ ·

12/08/97 18:05:25 Group: 345;

Analysis Batch Number: 3923 -12/03/97-1008-3

Test Identification : 3923 -Semivolatiles - Water

Number of Samples : 3

Batch Data-Date/Time : 12/04/97 / 17:59:38

BLANK# ANALYTE CONC FOUND # LMT OF QUANTITATION

SBLCW-11/24 none detected SBLCW-11/25-2 none detected

CONTROL					QC LIHITS
SAMPLE#	ANALYTE	CONC FOUND	CONC KNOWN	* REC #	LOWER UPPER
LCS-11/24	Pheno1	45.6400	100.0000	45.6	10.0 112.0
	bis(2-Chloroethyl)ether	98.8800	100.0000	98.9	12.0 158.0
	2-Chloropnenol	94.1200	100.0000	94.1	23.0 134.0
	1.3-Dichlorobenzene	65.3600	100.0000	65.4	10.0 172.0
	1.4-Dichlorobenzene	67.0800	100.0000	67.1	20.0 124.0
•	1.2-Dichlorobenzene	73.6000	100.0000	73.6	32.0 129.0
	Benzyl alcohol	82.5800	100.0000	82.6	45.0 100.0
	o-Cresol (2-Methylphenol)	87.7400	100.0000	87.7	49.0 103.0
	<pre>2.2°-oxybis(1-Chloropropane)</pre>	79.2600	100.0000	79.3	36.0 166.0
	p-Cresol (4-Methylphenol)	87.2400	100.0000	87.2	47.0 100.0
	N-Nitrosodi-n-propylamine	99.3200	100.0000	99.3	10.0 230.0
	Hexachloroethane	39.4200	100.0000	39.4(G)	40.0 113.0
	Ni trobenzene	85.1200	100.0000	85.1	35.0 180.0
	Isophorone	91.2800	100.0000	91.3	21.0 196.0
	2-Nitrophenol	77.7800	100.0000	77.8	29.0 182.0
•	Benzoic acid	115.2800	100.0000	115.3(P)	10.0 100.0
	2.4-Dimethylphenol	92.8800	100.0000	92.9	32.0 119.0
	bis(2-Chloroethoxy)methane	89.0800	100.0000	89.1	33.0 184.0
	2.4-Dichlorophenol	97.9600	100.0000	98.0	39.0 135.0
	1.2.4-Trichlorobenzene	69.7800	100.0000	69.8	44.0 142.0
	Naphthalene	77.2600	100.0000	77.3	21.0 133.0
	4-Chloroaniline	138.9400	100.0000	138.9(K1)	52.0 104.0
	Hexachloro-1.3-butadiene	60.7600	100.0000	60.8	24.0 116.0
	4-Chloro-3-methylphenol	98.4600	100.0000	98.5	22.0 147.0
	2-Hethylnaphthalene	86.0200	100.0000	86.0	57.0 129.0
	Hexachiorocyclopentadiene	29.0000	100.0000	29.0	10.0 100.0
	2,4,6-Trichlorophenol	95.7400	100.0000	95.7	37.0 144.0
	2.4.5-Trichlorophenol	94.2600	100.0000	94.3	30.0 128.0
	2-Chloronaphthalene	80.6000	100.0000	80.6	60.0 118.0
	2-Nitroaniline	72.0400	100.0000	72.0	56.0 118.0
	Dimethylphthalate	104.5400	100.0000	104.5	10.0 112.0
	Acenaphthylene	65.2600	100.0000	65.3	33.0 145.0
	2.6-Dinitrotoluene	81.2200	100.0000	81.2	50.0 158.0
	3-Nitroaniline	486.0000	100.0000	486.0(K1)	45.0 147.0
	Acenaphthene	86.6200	100.0000	86.6	47.0 145.0
	2.4-Dinitrophenol	39.8200	100.0000	39.8	10.0 191.0
	4-Nitrophenol	32.5000	100.0000	32.5	10.0 132.0
	Olbenzofuran	93.5000	100.0000	93.5	65.0 127.0
	2.4-0initrotoluene	231.0000	100.0000	231.0(K1)	39.0 139.0
	Oiethylphthalate	95.5200	100.0000	95.5	10.0 114.0
KG COH 002424	4-Chlarophenyl-phenylether	96.1400	100.0000	96.1	25.0 158.0
	Fluorene	94.9800	100.0000	95.0	59.0 121.0
	4-Nitroaniline	105.1000	100.0000	105.1	23.0 160.0
	4.6-Dinitro-o-cresol	65.2800	100.0000	65.3	10.0 181.0
	N-Nitrosodichenviamine	125.6400	100.0000	125.6(K1)	53.0 114.0

12/08/97 18:05:30 Group: 345

Analysis Batch Number: 0923 -12/03/97-1008-3

Test Identification : 0923 -Semivolatiles - Water Units: ug/1 Sequence: s337a.bQ

Number of Samples : 3

8atch Data-Date/Time : 12/04/97 / 17:59:38

CONTROL					QC LIMITS
SAMPLE#	ANALYTE	CONC_FOUND	CONC KNOWN	* REC #	LOWER UPPER
LCS-11/24	Hexach1orobenzene	106.3800	100.0000	106.4	10.0 152.0
•	Pentachlorophenol	80.3000	100.0000	80.3	14.0 176.0
	Phenanthrene	104.2800	100.0000	104.3	54.0 120.0
•	Anthracene	96.0400	100.0000	96.0	27.0 133.0
	Oi-n-butyl phthalate	72.9400	100.0000	72.9	10.0 118.0
	Fluoranthene	98.0000	100.0000	98.0	26.0 137.0
	Pyrene	92.4000	100.0000	92.4	52.0 115.0
	Butylbenzyi phthalate	47.0000	100.0000	47.0	10.0 152.0
	3.3°-Dichlorobenzidine	158.4200	100.0000	158.4	10.0 262.0
	Benzo(a)anthracene	99.0800	100.0000	99.1	33.0 143.0
	bis(2-Ethylhexyl)phthalate	68.6800	100.0000	68.7	10.0 158.0
	Chrysene	100.3000	100.0000	100.3	17.0 168.0
	Di-n-octyl phthalate	63.6200°	100.0000	63.6	10.0 146.0
	Benzo(b)fluoranthene	88.4200	100.0000	88.4	24.0 159.0
	Benzo(k)fluoranthene	91.4200	100.0000	91.4	11.0 162.0
	Benzo(a)pyrene	96.2600	100.0000	96.3	17.0 163.0
	Indeno(1.2.3-cd)pyrene	108.7600	100.0000	108.8	10.0 171.0
	Dibenzo(a,h)anthracene	108.7600	100.0000	108.8	10.0 227.0
	Benzo(ghi)perylene	112.2200	100.0000	112.2	10.0 219.0

SURG #:35-0923 -W-SU

SAMPLE#	2FP #_	PHL #	NBZ #	FBP #	TBP #	TPH #
SAMPLE 34473-179098	39	29	46	64 .	83	125
SAMPLE 34473-179099	43	29	50	64	63	107
SAMPLE 34522-179414	52	37	72	107	100	82
BLK 1 SBLKW-11/24	48	33	55	83	99	134
BLK 2 SBLKW-11/25	56	38	60	87	75	121
CTL 1 LCS-11/24	60	42	79	90	97	120

35-0923 -	W-SU - SEMIVOLATILE WATER SURROGATES	QC LIHITS
SRG ABRY	- SURROGATE DESCRIPTION .	LOWER UPPER
2FP	2-Fluorophenol	21.0 100.0
PHIL	Pheno1 -d6	10.0 94.0
NBZ	N1 trobenzene-d5	35.0 114.0
FBP	2-Fluorobiphenyl	43.0 116.0
TBP	2.4.6-Tribromophenol	10.0 123.0
TPH	Terphenyl -d14	33.0 141.0

----- Result Footnotes -----

----- Batch Notes -----

4-Chloroanaline. 3-Nitroanaline. and N-Nitrosodiphenylamine were above acceptable QC limits in the laboratory control. These compounds were not detected in any sample associated with the laboratory control. Therefore.

data was released for reporting.

⁽G) - Marginal Outlier

⁽P) - Compound Was Not Reported

⁽K1) - See comment for explanation

Page

Core Lab-Gulf States Analytical Daily QC Batching Data Data Released for Reporting

Units: ug/1

Sequence: s337a.bQ

12/08/97 18:05:32 Group: 3452;

Analysis Batch Number: 0923 -12/03/97-1008-3

Test Identification : 0923 - Semivolatiles - Water

Number of Samples :

Batch Data-Date/Time : 12/04/97 / 17:59:38

Groups & Samples

34473-179098 34473-179099 34522-179414

12/08/97 18:05:32 Group: 345

Analysis Batch Number: 6754 -11/26/97-1239-1

Test Identification : 6754 -Reactivity - Cyanide and Sulfide

Units: mg/l

Sequence:

Number of Samples : 6

Batch Oata-Oate/Time : 12/02/97 / 11:35:04

BLANK# BLK-112697 BLK-112697-2	ANALYTE Cyanide Sulfide	CONC FOUND # LMT OF QUANTITATION 10.0000 ND 50.0000	
SPIKE <u>SAMPLE#</u> 34522-179414 34522-179414-		CONC ADDED CONC SAMPLE CONC SPIKE X REC 1000.0000 0.0000 39.4833 3.9 279.6000 4.8000 214.8000 75.1	QC LIMITS LOWER UPPER 0.0 115.0 0.0 145.0
DUPLICATE SAMPLE# 34522-179414 34522-179414	ANALYTE Cyanide 2Sulfide	RESULT 1 RESULT 2 RPD # LIMIT DII 0.0000 0.0000 0.0 20.0 4.8000 4.8000 0.0 20.0	LUTION 1.00 1.00
CONTROL SAMPLE# LCS-112697 LCS-112697-2	ANALYTE Cyanide Sulfide	CONC FOUND CONC KNOWN 2 REC # LOWER UPPER 88.9119 1000.0000 8.9 0.0 133 179.8000 279.6000 64.3 0.0 195	.0

Groups & Samples

34522-179414 34531-179431 34531-179432

KG COH 002428

Chromium

Selenium

Mickel

Cituan

Units: mg/l

Sequence: S120797

12/08/97 18:05:33

Group: 34522

Analysis Batch Number: ICWTA-12/07/97-1194-1

Test Identification : ICWTA-Hetals by ICP. Trace

Number of Samples : 2

BLANK#	ANALYTE	CONC FOUND	# LMT OF O	UANTITATION				
PBW-120697	Arsenic	0.0014		0.0100				
	Cadmium	ND		0.0050				
	Chromium *	0.0022		0.0100				
	Lead	0.0027		0.0100				
	Nickel	ND		0.0200				
	Selenium	0.0005		0.0150				
	Silver	ND		0.0050				
	Zinc	NO		0.0200				
SPIKE						or.	LIHITS	
SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	CONC SPIK	E % REC #			1
34602-179875	Arsenic	0.5000	0.0125	0.500		80.0		•
	Cadmium	0.0500	0.0000	0.045		80.0		
N.	Chromium	0.2000	0.0161	. 0.192		80.0		
	Lead	0.5000	0.0000	0.490		80.0		
	Nickel	0.5000	0.0000	0.475		80.0		
	Selenium	0.5000	0.0000	0.415		80.0		
	Silver -	0.1000	0.0001	0.091		80.0		
•	Zinc	0.5000	0.1446	0.603		80.0		
MSD						OC L	IHITS	
SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	RESULT	2		UPPER	RPO #
34602-179875	Arsenic	0.5000	0.0125	0.508		80.0	120.0	1.8
	Cadmium	0.0500	0.0000	0.046		80.0	120.0	2.2
	Chromium	0.2000	0.0161	0.19		80.0	120.0	1.6
	Lead	0.5000	0.0000	0.500		80.0	120.0	1.9
	Nickel	0.5000	0.0000	0.482			120.0	1.5
	Selenium	0.5000	0.0000	0.42	23 84.5	80.0	120.0	1.7
	Silver	0.1000	0.0001	0.092	25 92.4	80.0	120.0	1.3
	Zinc	0.5000	0.1446	0.607	7 92.6	80.0	120.0	0.8
DUPLICATE					•			
SAMPLE#	ANALYTE	RESULT 1	RESULT 2	RPD #	LIMIT DIL	UTTON		
34602-179875	Arsenic	0.0125	0.0134	6.9	20.0	1.00		
	Cacinium	0.0000	0.0000	0.0	20.0	1.00		
	Chromium	0.0161	0.0158	1.9	20.0	1.00		
	Lead	0.0000	0.0002	200.0(11)	20.0	1.00		
	Nickel .	0.0000	0.0000	0.0	20.0	1.00		
	Selenium	0.0000	0.0019	200.0(11)	20.0	1.00		
	Silver	0.0001	0.0000	200.0(11)	20.0	1.00		
	Zinc	0.1446	0.1328	8.5	20.0	1.00		
CONTROL					QC LIMITS			
SAMPLE#	ANALYTE	CONC_FOUND	CONC KNOWN	* REC #	LOWER UPPER	1		
LCSW-120697	Arsenic	1.4349	1.2500	114.8	80.0 120.	0		
OII 002420	Cadmium	0.7344	0.6250	117.5	80.0 120.	.0		
OH 002428	Channelson	0.0754						

0.2754

0.7018

1.1964

n 7710

0.2500

0.6250

1.2500

7175

110.2

112.3

95.7

103 0

80.0 120.0

80.0 120.0

80.0 120.0

90 0 120 0

KG

l ead

Core Lab-Gulf States Analytical Daily QC Batching Data Data Releases for Reporting

12/08/97 18:05:35 Group: 34522

Analysis Batch Number: ICMTA-12/07/97-1194-1

Test Identification : ICWTA-Hetals by ICP, Trace Units: mg/l. Sequence: S120797

Number of Samples : 2

Batch Oata-Oate/Time : 12/08/97 / 10:28:31

CONTROL					QC LIHITS
SAMPLE#	ANALYTE	CONC FOUND	CONC KNOWN	REC #	LOWER UPPER
LCSW-120697	Zinc	0.6595	0.6250	105.5	80.0 120.0
	Lead	1.2800	1.2500	102.4	80.0 120.0
				QC L	rutte
CCV #	ANALYTE	TRUE VALUE	BATCH READ	* REC #	LOWER UPPER
1	Arsenic	0.5000	0.4951	99.0	90.0 110.0
	Cadmium	0.5000	0.5001	100.0	90.0 110.0
	Chromium	0.5000	0.4943	98.9	90.0 110.0
	Lead	0.5000	0.5101	102.0	90.0 110.0
	Nickel	0.5000	0.4965	99.3	90.0 110.0
	Selenium	0.5000	0.4861	97.2	90.0 110.0
•	Silver	0.2500	0.2430	97.2	90.0 110.0
	Zinc	0.5000	0.4954	99.1	90.0 110.0
2	Arsenic	. 0.5000	0.5141	102.8	90.0 110.0
	Cadmium	0.5000	0.5246	104.9	90.0 110.0
	Chromium	0.5000	0.5164	103.3	90.0 110.0
	Lead	0.5000	0.5357	107.1	90.0 110.0
	Nickel	0.5000	0.5185	103.7	90.0 110.0
	Selenium	0.5000	0.4883	97.7	90.0 110.0
	Silver	0.2500	0.2520	100.8	90.0 110.0
	Zinc	0.5000	0.5085	101.7	90.0 110.0
3	Arsenic	0.5000	0.5183	103.7	90.0 110.0
	Cadurium	0.5000	0.5253	105.1	90.0 110.0
	Chromium	0.5000	0.5147	102.9	90.0 110.0
	·Lead	0.5000	0.5353	107.1	90.0 110.0
	Nickei	0.5000	0.5166	103.3	90.0 110.0
	Selenium	0.5000	0.4788	95.8	90.0 110.0
	Silver .	0.2500	0.2535	101.4	90.0 110.0
	Zinc	0.5000	0.5377	107.5	90.0 110.0
4	Arsenic	0.5000	0.5034	100.7	90.0 110.0
	Cadarium	0.5000	0.5132	102.6	90.0 110.0
	Chronium	0.5000	0.5003	100.1	90.0 110.0
	Lead	0.5000	0.5257	105.1	90.0 110.0
	Nickel	0.5000	0.5048	101.0	90.0 110.0
	Selenium	0.5000	0.4564	91.3	90.0 110.0
	Silver	0.2500	0.2453	98.1	90.0 110.0
_	Zinc	0.5000	0.5082	101.6	90.0 110.0
5	Arsenic	0.5000	0.5303	106.1	90.0 110.0
	Caderium	0.5000	0.5404	108.1	90.0 110.0
	Chronius	0.5000	0.5172	103.4	90.0 110.0
	Lead	0.5000	0.5509	110.2(CC)	90.0 110.0
	Nickel Salarian	0.5000	0.5273	105.5	90.0 110.0
	Selenium Silven	0.5000	0.4662	93.2	90.0 110.0
COH 002429	Silver	0.2500	0.2513	100.5	90.0 110.0
6		0.5000	0.5187	103.7	90.0 110.0
U	Arsenic Cadmium	0.5000	0.5650	113.0(CC)	
	Chronium	0.5000	0.5844	116.9(CC)	
	CI II CIRI CIRI	0.5000	0.5384	107.7	90.0 110.0

0 5000

0 5940 118 8(CC) 90 0 110 0

12/08/97 18:05:37 Group: 3452;

Analysis Batch Number: ICATA-12/07/97-1194-1

Test Identification : ICATA-Metals by ICP. Trace

Units: mg/l

206

56

268

268

Sequence: S120797

Number of Samples :

: 2

Batch Data-Date/Time : 12/08/97 / 10:28:31

						QC LI	IHITS
CCV #	ANALYTE	 	TRU	E VALUE	BATCH READ	* REC #	LOWER UPPER
6	Nickel			0.5000	0.5507	110.1(CC)	90.0 110.0
	Selenium			0.5000	0.4929	98.6	90.0 110.0
	Silver	•		0.2500	0.2563	102.5	90.0 110.0
	Zinc			0.5000	0.5477	109.5	90.0 110.0
STANDARD#	ANALYTE		DATE EXP	BATCH DAT	TE DAYS/EX	P	
1	Arsenic		02/01/98	12/07/97	7 56	•	
	Cacinium		09/01/98	12/07/97	7 268		
	Chromium		09/01/98	12/07/97	7 268		
	Lead		11/01/98	12/07/97	7 329		

07/01/98

02/01/98

09/01/98

09/01/98

12/07/97

12/07/97

12/07/97

12/07/97

Result Footnotes

- (11) Both Duplicate results are less than the LOQ.
- (CC) The analyte CCV was not required to bracket data reported.

Batch Notes -----

Groups & Samples

Nickel

Silver

Zinc

Selenium

34522-179414 34602-179875 34804-180775 34804-180776

Page 1

Core Lab-Gulf States Analytical Daily QC Batching Data Data Released for Reporting

12/15/97 12:07:28 Group: 34522

Analysis Batch Number: 0259 -12/02/97-1194-1

Test Identification : 0259 -Mercury by Cold Vapor AA

Units: ug/l

Sequence: 0259A-1

Number of Samples : 11

Batch Data-Date/Time : 12/02/97 / 14:51:32

BLANK# PBW-120297	ANALYTE Hercury	CONC FOUND £		UANTITATION 0.5000		
SPIKE SAMPLE# 34629-180036	ANALYTE Hercury		CONC SAMPLE 0.0420	CONC SPIKE	2 REC #	QC LIMITS LOWER UPPER 75.0 125.0
MSD						QC LIMITS
SAMPLE#	ANALYTE	CONC_ADDEDC	ONC SAMPLE	RESULT 2	ARECZ # LC	OWER UPPER F
34629-180036	Hercury	1.0000	0.0420	1.1780		75.0 125.0
DUPLICATE						
SAMPLE#	ANALYTE	RESULT 1	RESULT 2	RPO # LIN	<u> </u>	M.
34629-180036	Mercury	0.0420	0.0980		0.0 1.00	_
CONTROL				α	LIMITS	
SAMPLE#	ANALYTE	CONC FOUND	CONC KNOWN	-	ER UPPER	
LCSW-120297	Hercury	3.0300	3.0000		30.0 120.0	
cou #	41144 3077			QC LIHITS		
CCV #	ANALYTE		BATCH READ		VER UPPER	
1 :	Hercury	3.0000	2.9480		0.0 120.0	
2 3	Hercury	3.0000	3.0990		0.0 120.0	
. 3	Hercury	3.0000	3.1450	104.8	0.0 120.0	
STANDARD# AN	LYTE	DATE EXP BATCH DAT	E DAYS/EX	P		
1 Mer	roury	08/01/98 12/02/97		_		-
(11) - Both (

Groups & Samples

34271-178072 34357-178502 34359-178504 34359-178505 34359-178504T 34522-179414 34557-179566 34557-179567 34557-179568 34629-180035 34629-180036

12/15/97 . 12:07:29 Group: 345

Analysis Batch Number: 8260 -12/06/97-1094-1

Test Identification : 8260 -Volatiles

Number of Samples

Batch Oata-Oate/Time : 12/09/97 / 16:56:10

Units: ug/l

Sequence: m340.bQ

BLANK#	ANALYTE	CONC_FOUN	D# LHTOFQL	JANTITATION					
VBLK-120697	Isopropanol	2.680		0.0000	•				
SPIKE						00	LIHITS		
SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	CONC SPI	KE * REC #		R UPPE		
34603-179880	1.1-Dichloroethene	50.0000	0.0000	35.77			132.0		
	Trichloroethene	50.0000	0.0000	41.07			130.0		
	Benzene	50.0000	0.0000	49.03			134.0		
	Toluene	50.0000	0.0000	46.86			123.0		
	Chlorobenzene	50.0000	0.0000	46.23			127.0		
HSD			• [8			00.1	IHITS		
SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	RESULT	2 #REC2 #	LOWER	UPPER	RPD #	,
34603-179880	1.1-Dichloroethene	50.0000	0.0000	36.24		54.0	132.0	1.4	L
	Trichloroethene	50.0000	0.0000	44.97		70.0	130.0	9.1	
	Benzene	50.0000	0.0000	53.57		74.0	134.0	8.8	
	Toluene	50.0000	0.0000	53.96		79.0	123.0	14.1(A)	•
	Chlorobenzene	50.0000	0.0000	51.57			127.0	10.8(A)	
CONTROL					AC I TUTTE				
SAMPLE#	ANALYTE	COME ECHBIC	COUR MINIST	¥ 050 #	QC LIMITS				
LCS-120697	Acetone	29.3600	CONC KNOWN	* REC #	LOWER UPPER				
	Benzene .	49.7300	50.0000 50.0000	58.7 99.5	30.0 187.0				
	Bromodichloromethane	47.4900	50.0000	95.0	82.0 124.0 80.0 147.0				
	Bronoform	45.1400	50.0000	90.3	77.0 135.0				
	Bromomethane (Hethyl bromide)	40.3700	50.0000	90.3 80.7	43.0 146.0				
	2-Butanone (MEK)	51.5500	50.0000	103.1	43.0 159.0				
	Carbon disulfide	64.6400	50.0000	129.3	68.0 147.0				
	Carbon tetrachloride	52.7900	50.0000	105.6	81.0 131.0				
	Chlorodibromomethane	47.0400	50.0000	94.1	76.0 144.0				
	Chlorobenzene	49.1900	50.0000	98.4	83.0 127.0				
	Chloroethane (Ethyl chloride)	39.8100	50.0000	79.6	68.0 123.0				
	Chloroform .	47.6000	50.0000	95.2	83.0 129.0				
	Chloromethane (Hethyl chloride)	40.2100	50.0000	80.4	50.0 134.0				
	1.1-01chloroethane	52.8300	50.0000	105.7	80.0 124.0		• • •		
	1,2-Dichloroethane	48.4400	50.0000	96.9	79.0 131.0				
	1.1-Dichloroethene	42.4100	50.0000	84.8	57.0 133.0				
	cis-1,2-Dichloroethene	49.3500	50.0000	98.7	82.0 138.0				
	trans-1,2-Dichloroethene	48.5500	50.0000	97.1	66.0 129.0				
	1.2-01chloropropane	49.2900	50.0000	98.6	82.0 128.0				
	cis-1,3-Dichloropropene	47.6200	50.0000	95.2	76.0 132.0		•		
	trans-1.3-Dichloropropene	48.9800	50.0000	98.0	78.0 133.0				
	Ethylbenzene	48.6500	50.0000	97.3	82.0 129.0				
•	2-Hexanone	42.6600	50.0000	85.3	60.0 169.0				
	Dichioromethane	46.5600	50.0000	93.1	75.0 133.0				
	4-Hethyl-2-pentanone (HIBK)	59.5800	50.0000	119.2	75.0 130.0				
211 002 125	Styrene	50.9700	50.0000	101.9	82.0 128.0				
OH 002432	1.1.2.2-Tetrachloroethane	48.4000	50.0000	96.8	79.0 130.0				
	Tetrachloroethene	40.2600	50.0000	80.5(J)	82.0 127.0				
	Toluene	48.9700	50.0000	97.9	81.0 130.0				
	1.1.1-Trichloroethane	48.5500	50.0000	97.1	79.0 130.0				

12/15/97 12:07:31 Group: 34522

Analysis Batch Number: 8260 -12/06/97-1094-1

Test Identification : 8260 -Volatiles Units: ug/l Sequence: m340.bQ

Number of Samples : 6

Batch Data-Date/Time : 12/09/97 / 16:56:10

CONTROL					QC LIMITS
SAMPLE#	ANALYTE	CONC FOUND	CONC KNOWN	* REC #	LOWER UPPER
LCS-120697	1.1.2-Trichloroethane	51.8500	50.0000	103.7	79.0 130.0
	Trichloroethene	47.8700	50.0000	95.7	82.0 130.0
	Vinyl chloride	44.8700	50.0000	89.7	62.0 133.0
	o-Xylene	49.9400	50.0000	99.9	83.0 130.0
	m.p-Xylene	96.8800	100.0000	96.9	82.0 128.0

SURG #:30-8260 -W-SG

SAMPI	F#	08FH #	DCE #	TOL #	8FB #
SAMP	E 34522-179414	89	100	101	105
SAMP	LE 34531-179431	84(L)	99	102	104
SAMP	LE 34531-179432	84(L)	97	99	102
SAMP	LE 34603-179878	85(L)	99	106	105
SAMP	LE 34603-179880	86	98	100	103
SAMP	LE 34603-179879	86(L)	101	102	107
BLK	1 VBLK-120697	88	98	102	104
SPK	1 34603-179880	88	99	101	105
CTL	1 LCS-120697	91	102	102	105
SD	1 34603-179880	87	100	101	104

30-8260 -h	-SG - VOLATILES WATER SURROGATE	QC LIMITS			
SRG ABRY -	SURROGATE DESCRIPTION	LOHER UPPER			
DBFM	Dibromofluoromethane	86.0 118.0			
DCE	1.2-Dichloroethane-d4	80.0 120.0			
TOL	Toluene-d8	88.0 110.0			
BFB	p-Bromofluorobenzene	86.0 115.0			

..... Result Footnotes

Groups & Samples

34522-179414 34531-179431 34531-179432 34603-179878 34603-179879 34603-179880

⁽A) - Matrix Interference

⁽J) - Within Hethod Requirements

⁽L) - Sample Reanalyzed

KG

Toluene

Core Lab-Gulf States Analytical Daily QC Batching Data Data Released for Reporting

12/15/97 12:07:32 Group: 3452

1 1 1

Analysis Batch Number: 8260 -12/07/97-1094-1

Test Identification : 8260 -Volatiles

Units: ug/1 Sequence: 1341.bQ

81.0 130.0

50.0000

44.7800

89.6

BLANK#	ANALYTE	CONC FOUND	# LMT OF QUA	MOITATION				
VBLK-120797	none detected							
SPIKE		•				OC.	LIHITS	
SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	CONC SPIKE	# REC #		R UPPE	į.
	1.1-Dichloroethene	25000.0000	0.0000	16490.0000			132.0	•
0.000	Trichlorgethene	25000.0000	0.0000	19905.0000			130.0	
	Benzene	25000.0000	0.0000	23100.0000		74.0	134.0	
	Toluene	25000.0000	0.0000	23145.0000	92.6	79.0	123.0	
	Chlorobenzene	25000.0000	0.0000	22215.0000	88.9	78.0	127.0	
MSD						OC L	IHITS	
SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	RESULT 2	ZREC2 #		UPPER	RPD :
34531-179432	· · · · · · · · · · · · · · · · · · ·	25000.0000	0.0000	16880.0000		54.0	132.0	2.2
	Trichlorcethene	25000.0000	0.0000	20655.0000			130.0	3.7
	Benzene	25000.0000	0.0000	24135.0000			134.0	4.3
	Toluene	25000.0000	0.0000	23530.0000		79.0	123.0	1.6
	Chlorobenzene	25000.0000	0.0000	22300.0000	89.2	78.0	127.0	0.3
CONTROL					QC LIMITS			
SAMPLES	ANALYTE	CONC FOUND	CONC KNOWN	# REC # 1	OWER UPPER			
LCS-120797	Acetone	26.9300	50.0000	53.9	30.0 187.0			
E00-1E0/3/	Benzene	45.9500	50.0000	91.9	82.0 124.0			
	Bromodichloromethane	46.2200	50.0000	92.4	80.0 147.0			
	Bromoform	42.4800	50.0000	85.0	77.0 135.0			
	Bromomethane (Hethyl bromide)	43.0600	50.0000	86.1	43.0 146.0			
	2-Butanone (MEK)	47.1700	50.0000	94.3	43.0 159.0			
	Carbon disulfide	62.9100	50.0000	125.8	68.0 147.0			
	Carbon tetrachloride	51.5700	50.0000	103.1	81.0 131.0			
	Chlorodibromomethane	45.9000	50.0000	91.8	76.0 144.0			
	Chil orobenzene	44.1800	50.0000	88.4	83.0 127.0			
	Chloroethane (Ethyl chloride)	40.5000	50.0000	81.0	68.0 123.0			
	Chloroform	45.6900	50.0000	91.4	83.0 129.0			
	Chloromethane (Hethyl chloride)	36.7300	50.0000	73.5	50.0 134.0			
	1.1-Dichloroethane	44.9200	50.0000	89.8	80.0 124.0			
	1.2-Dichloroethane	44.9900	50.0000	90.0	79.0 131.0			
	1.1-Dichloroethene	39.9600	50.0000	79.9	57.0 133.0			
	cis-1,2-Dichloroethene	46.8500	50.0000	93.7	82.0 138.0			
	trans-1.2-Dichloroethene	49.5100	50.0000	99.0	66.0 129.0			
	1.2-Dichloropropane	45.7400	50.0000	91.5	82.0 128.0			
	cis-1.3-Dichloropropene	45.2500	50.0000	90.5	76.0 132.0			
	trans-1.3-Dichloropropene	47.6800	50.0000	95.4	78.0 133.0			
	Ethylbenzene	45.3200		90.6	82.0 129.0			
	2-Hexanone	37.5900		75.2	60.0 169.0			
	Dichloromethane	46.9400		93.9	75.0 133.0			
COH 002434	4-Methyl-2-pentanone (MIBK)	50.8000		101.6	75.0 130.0			
	Styrene	48.3200		96.6	82.0 128.0			
	1.1.2.2-Tetrachioroethane	44.2600		88.5	79.0 130.0			
	Tetrachloroethene	36.2700		72.5(J)	82.0 127.0			
		44 7000	EA 0000	90 6	91 0 120 (1		

Core Lab-Gulf States Analytical Daily QC Batching Data Data Released for Reporting

12/15/97 12:07:33 Group: 3452

Analysis Batch Number: 8260 -12/07/97-1094-1

Test Identification : 8250 -Volatiles

Number of Samples : 9

Batch Data-Date/Time : 12/11/97 / 16:34:50

Uni	ts	:	ua	/1
YIII	~	٠	uy.	"

Sequence: 1341.bQ

CONTROL SAMPLE# ANALYTE CONC FOUND CONC KNOWN * REC #	QC LIMITS
LCS-120797 1.1.2-Trichloroethane 47.4300 50.0000 94.9	79.0 130.0
Trichloroethene 42.8600 50.0000 85.7	82.0 130.0
Vinyl chloride 42.8000 50.0000 85.6	62.0 133.0
o-Xylene 46.2100 50.0000 92.4	83.0 130.0
m.p-Xylene 89.5500 100.0000 89.6	82.0 128.0

SURG #:30-8260 -W-SG

SAMPLE#	OBFM #	DCE #	TOL #	8FB #
SAMPLE 34522-179414	87	96	103	103
SAMPLE 34531-179431	86	99	106	107
SAMPLE 34531-179432	87	95	103	106
SAMPLE 34605-179882	88	94	103	102
SAMPLE 34605-179883	88	96	105	105
SAMPLE 34599-179866	88	94	104	101
SAMPLE 34599-179867	90	94	103	104
SAMPLE 34599-179868	98	92	102	103
SAMPLE 34603-179878	90	93	100	101
JLK 1 VBLK-120797	89	94	103	101
SPK 1 34531-179432	91	90	100	101
CTL 1 LCS-120797	91	99	100	100
MSD 1 34531-179432	88	94	103	103

30-8260	-W-SG - VOLATILES WATER SURROGATE	OC LIMITS
SRG ABRY	= SURROGATE DESCRIPTION	LOWER UPPER
D8FH	Dibromofluoromethane	86.0 118.0
DCE	1.2-Dichloroethane-d4	80.0 120.0
TOL	Toluene-d8	88.0 110.0
BFB	p-BrossofTuorobenzene	86.0 115.0

······ Result Footnotes ·····

(J) - Within Hethod Requirements

Groups & Samples

34522-179414 34531-179431 34531-179432 34599-179866 34599-179867 34599-179868 34603-179878 34605-179882 34605-179883

Core Lab-Gulf States Analytical

12/15/97 12:07:35 Group: 345.

Analysis Batch Number: 8260 -12/08/97-1094-1

Test Identification : 8260 -Volatiles

Number of Samples : 12

Daily QC	Batching Data
Data Releas	sed for Reporting

Units: ug/1 Sequence: 1342.bQ

BLANK#	ANALYTE	CONC FOUN	# LMTOF	QUANTITATION					
VBLK-120897	Bromomethane (Methyl bromide)	1.0500		LO.0000					
	Ethylbenzene	1.730		5.0000					
	2-Hexanone	1.190		LO.0000					
	1.1.2.2-Tetrachloroethane	2.2600		5.0000					
	m.p-Xylene	1.340		5.0000					
	1.2-Dichlorobenzene	1.210		5.0000					
	1.3-Dichlorobenzene	1.510		5.0000					
	1.4-Dichlorobenzene	1.4900)	5.0000					
SPIKE				·		oc	LIHITS		
SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	CONC SPIKE	X REC #		R UPPE		
34605-179882		500.0000	0.0000	370.2000			132.0	_	
	Trichloroethene	500.0000	66.7000	578.2000		70.0	130.0		
	Benzene	500.0000	0.0000	493.0000			134.0		
	Toluene	500.0000	0.0000	485.8000	97.2	79.0	123.0		
	Chlorobenzene	500.0000	0.0000	447.3000			127.0		
MSD						oc t	ZTIMI		
SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	RESULT a	Z ZREC2 #	LOWER	UPPER	RPO #	L
34605-179882	· · · · · · · · · · · · · · · · · · ·	500.0000	0.0000	389.1000		54.0	132.0	5.0	=
	Trichloroethene	500.0000	66.7000	562.2000			130.0	3.2	
	8enzene	500.0000	0.0000	502.2000			134.0	1.8	
	Toluene	500.0000	0.0000	488.5000	97.7	79.0	123.0	0.5	
	Chlorobenzene	500.0000	0.0000	483.2000	96.6	78.0	127.0	7.6	
CONTROL.					QC LIMITS				
SAMPLE#	ANALYTE	CONC FOUND	CONC KNOWN	Z REC #	LOWER UPPER				
LCS-120897	Acetone	24.4300	50.0000	48.9	30.0 187.0				
	8enzene	47.2800	50.0000	94.6	82.0 124.0				
	Bromodichloromethane	51.1000	50.0000	102.2	80.0 147.0				
	Bromoform	43.9900	50.0000	88.0	77.0 135.0				
	Bromomethane (Hethyl bromide)	46.6700	50.0000	93.3	43.0 146.0				
	2-Butanone (MEK)	41.9600	50.0000	83.9	43.0 159.0				
	Carbon disulfide	64.5100	50.0000	129.0	68.0 147.0				
	Carbon tetrachloride	59.8200	50.0000		81.0 131.0				
	Chi and Albanana bhana	40 2100	ED 0000	96. <u>4</u>	76 0 144 0				
	Chlorodibromomethane	48.2100	50.0000	30.4	76.0 144.0				
	Chlorobenzene	46.2700	50.0000		83.0 127.0				
				92.5					

KG COH 002436

Chloroform

1.1-Dichloroethane

1.2-Dichloroethane

1.1-Dichloroethene

cis-1.2-Dichloroethene

Chloromethane (Methyl chloride)

trans-1.2-Dichloroethene	49.0300	50.0000	98.1	66.0 129.0
1.2-Dichloropropane	46.7000	50.0000	93.4	82.0 128.0
cis-1,3-Dichloropropene	48.8600	50.0000	· 97.7	76.0 132.0
trans-1.3-Dichloropropene	50.6300	50.0000	101.3	78.0 133.0
Ethylbenzene	47.9100	50.0000	95.8	82.0 129.0
7.Havznone	DOAR AF	50 0000	60 7	60 0 160 0

47.3500

36.2800

50.0700

45.3600

41.2800

49.1600

50.0000

50.0000

50.0000

50.0000

50.0000

50.0000

94.7

72.6

100.1

90.7

82.6

98.3

83.0 129.0

50.0 134.0

80.0 124.0

79.0 131.0

57.0 133.0

82.0 138.0

Core Lab-Gulf States Analytical Daily QC Batching Data Data Released for Reporting

12/15/97 12:07:36 Group: 3452

Analysis Batch Number: 8260 -12/08/97-1094-1

Test Identification : 8260 -Volatiles Units: ug/l Sequence: 1342.bQ

Number of Samples : 12

Batch Data-Date/Time : 12/11/97 / 17:37:47

CONTROL					QC LIHITS
SAMPLE#	ANALYTE	CONC FOUND	CONC KNOWN	* REC #	LOWER UPPER
LCS-120897	Dichioromethane	45.4200	50.0000	90.8	75.0 133.0
	4-Methyl-2-pentanone (MIBK)	50.1100	50.0000	100.2	75.0 130.0
	Styrene	50.1300	50.0000	100.3	82.0 128.0
	1.1.2.2-Tetrachloroethane	43.8900	50.0000	87.8	79.0 130.0
	Tetrachloroethene	40.2700	50.0000	80.5(G)	82.0 127.0
	Toluene	49.1100	50.0000	98.2	81.0 130.0
	1.1.1.Trichloroethane	51.1400	50.0000	102.3	79.0 130.0
	1.1.2-Trichloroethane	48.2700	50.0000	96.5	79.0 130.0
	Trichloroethene	49.2400	50.0000	98.5	82.0 130.0
	Vinyl chloride	44.5700	50.0000	89.1	62.0 133.0
	o-Xylene	48.3200	50.0000	96.6	83.0 130.0
	m.p-Xylene	96.0000	100.0000	96.0	82.0 128.0

SURG #:30-8260 -W-SG

DOLLE B. 20 OF OR AL 20				
SAMPLE#	08FM #	DCE #	TOL #	BFB #
SAMPLE 34599-179869	92	97	105	107
SAMPLE 34605-179882	87	97	103	106
SAMPLE 34522-179414	86	97	101	105
SAMPLE 34531-179431	86	99	101	105
SAMPLE 34649-180101	85(G)	96	100	103
SAMPLE 34649-180102	88	96	106	106
SAMPLE 34649-180103	94	96	103	105
SAMPLE 34649-180104	90	99	105	110
SAMPLE 34589-179754	86	96	104	107
SAMPLE 34589-179753	88	100	106	108
SAMPLE 34616-179930	86(G)	97	101	105
SAMPLE 34616-179928	88	94	103	103
BLK 1 VBLK-120897	88	94	101	102
SPK 1 34605-179882	88	98	103	106
CTL 1 LCS-120897	94	95	102	105
MSD 1 34605-179882	87	96	102	104

30-8260 -	W-SG - VOLATILES WATER SURROGATE	QC LIHITS
SRG ABRY	= SURROGATE DESCRIPTION	LOWER UPPER
DBFH	Dibromofluoromethane	86.0 118.0
DCE	1,2-Dichioroethane-d4	80.0 120.0
TOL	Toluene-d8	88.0 110.0
BFB	p-Bromofluorobenzene	86.0 115.0

----- Result Footnotes -----

(G) - Marginal Outlier

Groups & Samples

34522-179414 34531-179431 34589-179753 34589-179754 34599-179869 34605-179882 34616-179928 34616-179930

Page

Core Lab-Gulf States Analytical Daily QC Batching Data Data Released for Reporting

Units: ug/l

Sequence: 1342.bQ

12/15/97 12:07:37 Group: 34522

Analysis Batch Number: 8260 -12/08/97-1094-1

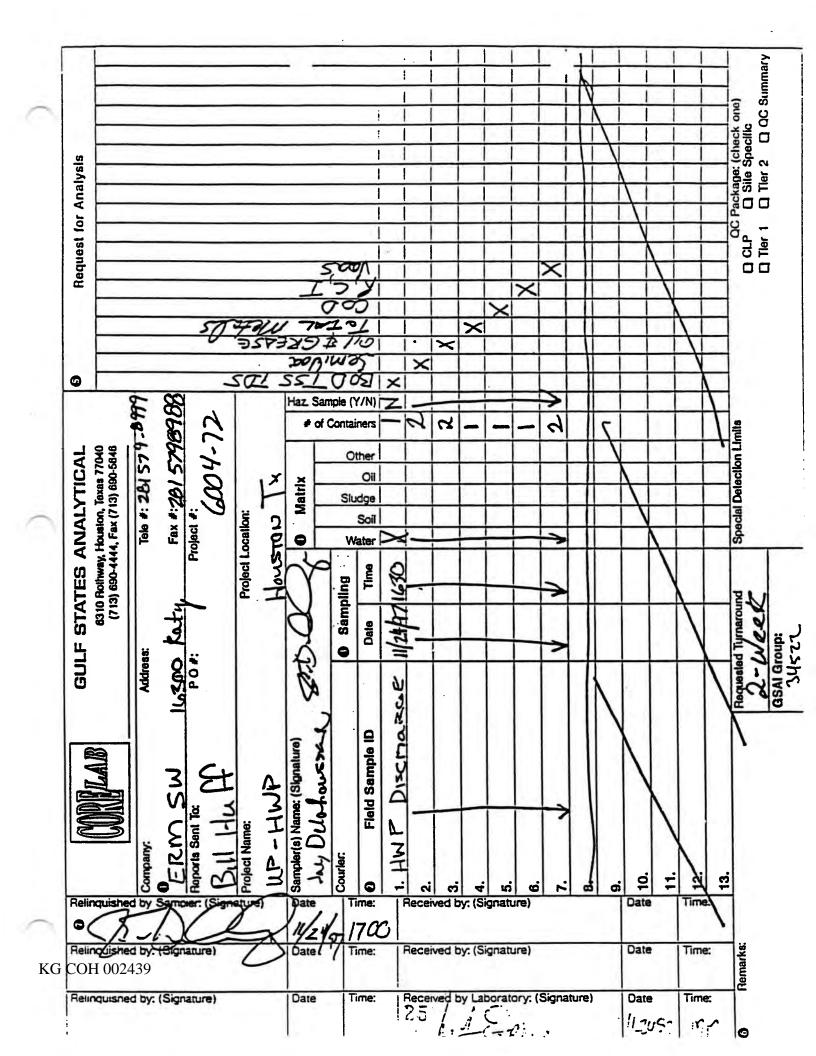
Test Identification : 8260 -Volatiles

Number of Samples : 12

Batch Data-Date/Time : 12/11/97 / 17:37:47

Groups & Samples

34649-180101 34649-180102 34649-180103 34649-180104



Excerpt from City of Houston Industrial Waste Ordinance Appendix B

April 27, 1998 W.O. #422-09

Environmental Resources Management 16300 Katy Freeway, Suite 300 Houston, Texas, 77094-1611 (281) 579-8999

KG COH 002440

PART II

CITY OF HOUSTON INDUSTRIAL WASTE ORDINANCE

the user charge. The utility official shall grant such a request and accept the results of the permittee's self-monitoring if the permittee provides documentation in the format required by the unility official showing that the permittee used proper chain of quecody and that eampling and analysis were conducted in accordance with subsection (c), below. All costs of such sampling and analyses for self-monitoring shall be borne by the permittee. Approval of sampling and analysis performed by an independent laboratory does not prevent representatives of the department from taking additional samples without prior notice to the permittee. Submission of any self-monitoring analyses that are not representative of the process discharge shall be grounds for permit revocation of termination of water and wastewater services.

- (c) Sampling and analysis shall be conducted in accordance with 40 CFR Part 136.
- (d) The utility official may make periodic tests of waste being discharged into the city sever from the premises of on industrial user under the provisions hereof.

Sec. 47-194. Standard of quality.

- (a) Unless otherwise required or approved, the delivery of all industrial waste from the industrial user to the sanitary sewer shall be at a reasonably uniform rate, as produced, without storage by the industrial user, except that storage which is necessary in the pretreatment plant of the industrial user.
- (b) It shall be unlawful to discharge or cause to be discharged any subsurface drainage, storm or ground water, downspout or roof runoff, yard sprinklers, drains, fountains or ponds into the sanitary sewer system. Water from ewimming pools, boiler drains, blow off pipes or cooling water from equipment may be discharged into the sewer system by an indirect connection whereby such discharge is cooled, if required, and flow into the sewer system is at a rate not to exceed the design capacity of the sewer system, provided that the waste does not contain materials or substances that would violate other provisions of this article.
- (c) It shall be unlawful to discharge or cause to be discharged into the eever system, any of following described substances, materials, waters, or wastes:
 - (1) Any liquid or vapor having a temperature higher than forty-five (45) degrees Celsius (one hundred thirteen (113) degrees Fahrenheit) at the place of discharge into the sever system. or which causes the temperature of the influent reaching a city treatment plant to be forty (40) degrees Celsius (one hundred four (134) degrees Fahrenheit) or more.

- (2) Any water or waste which contains wax, grease, oil, plastice, or other substances that will solidify or become discernibly viscous at temperatures between sixty (60) to ninety (90) degrees Fahrenheit.
- (3) Flammable or explosive liquids, solids or gas, such as gasoline, kerosene, benzene, naphtha, etc.
- (4) Solid or viscous substances which may interfere with or obstruct the POTW, such as askes, cinders, sand, mud, straw, shaving, metal, glass, rags, feathers, tar, plastics, wood, whole blood, paunch manure, hair and fleshings, entrails, lime slurries, lime residues, slope, chemical residues, paint residues, fiber class, or bulk solids.
 - Wasts from garbage grinders, except (5) waste generated in the preparation of foods that are generally consumed on the premises, and not unless it has been properly comminuted or shredded to reduce all food ecrape and like particles to three-eixteenths inch or less in greatest dimensions. Garbace granders shall not be used for grinding plastics. paper products. refuse. hospital or garden veterinarian refuse, or similar refuse for disposal into a city sever.
 - (6) Any moximus or malodorous substance which can form a gas; which either singly or by interaction with other wastes is capable of causing objectionable odors or bazard to life and property; which forms solids in concentrations exceeding limits established herein; which creates any other condition deleterious to structures or treatment processes; or which requires unusual facilities, attention, or expense to bandle.
 - (7) Wastestreams with a closed cup flashpoint of less than 140 degrees Fahrenheit or 50 degrees Celsius.
 - (3) Petroleum oil, nonbiodegradable cutting oil, or products of mineral origin in amounts that cause interference with or passes through the sanitary sewer system.
 - (9) Pollutants producing toxic vapors, gases, or fumes within the sanitary sever system that may cause affile worker health and safety problems.

- (10) Any trucked or hauled waste, except at discharge points designated by the utility official. Only domestic septic tank waste generated within the city will be allowed at these designated points. Provided, however, the city may move waste it collects within its sanitary sever system to designated points.
- (d) It shall be unlawful for any industrial user to discharge into the publicly owned treatment system:
 - (1) Free or emulsified oil and grease, if such materials:
 - a. Exceed on analysis an average of four hundred (400) milligrams per liter (mg/l) of free or emulsified oil and crease:
 - b. Form a discernible floating layer on the surface of the discharge waters;
 - c. Overload the industrial user's skimming and grease handling equipment;
 - d. Are not amenable to biological treatment and will therefore pass through to the receiving waters without being affected by normal sewage treatment processes;
 - e. Have adverse effects on the treatment process due to the excessive quantities; or
 - . f. Deposit oil or grease in the sever lines in such a manner as to obstruct the sever.
 - (2) Acids or alkalies which attack or corrode sewers or sewage disposal structures or have a pH value lower than \$.0 or higher than 11.0, or which, due to contents, may be reduced or changed with age or by sewage, to produce acid or alkaline reactions.
 - (1) Any ealt of the following heavy metals in concentrations greater than the amounts specified below. The permit shall specify pollutant limitations based on a method for allocating pollutant loadings approved by EFA and incorporated into the city's approved pretreatment program.

	Grab	Composite
	Limit	Limit
<u>Metal</u>	ac/1	<u> aq/1</u>
Areenic /	3.0	2.0
Cachatum _	0.4	9.2
Chromium ~	3.0	1.0
Cooper ~	3.0	2.0
Lead -	1.5	1.0
Mercury -	0.02	0.01
Sickel -	3.0	2.0
Selenium /	5.0	3.0
Silver -	2.0	1.0
Ziac >	6.0	3.0

- (4) Cyanides (CN) or cyanogen compounds capable of liberating hydrocyanic gas upon acidification in excess of two (2) milligrams per liter (mg/l) as CN based upon a grab or composite eample.
- (5) Radioactive materials exceeding the existing standards of the state.
- (6) Substances in such concentrations as to produce odor or taste in the effluent as to affect the taste and odor of the receiving waters.
- (7) Substances which exert or cause:
 - a. Unusual 300 or an immediate oxygen demand;
 - b. Unusual concentrations of solids or composition, as an example, in total suspended solids of an inert nature (such as Fuller's earth) or in total dissolved solids (such as sodium chloride or sodium sulfate); or
 - c. Unusual flow or concentration.
- (3) Any substance which is not amenable to treatment or reduction by the wastewater treatment process employed, or is amenable to treatment only to such degree that the sanitary sever system cannot seet the requirements of agencies having jurisdiction over discharge to the receiving waters.
- (3) Substances which exert or cause excessive discoloration, such as dye wastes and tanning solutions, which would cause an interference in or pass through the sewer system.
- (10) Sulfidee in concentrations greater than five (5) milligrams per liter (mg/l).

(11) Any discharge which fails to meet applicable pretreatment standards or requirements.

Sec. 47-195. Accidental discharges.

- (a) Each industrial user shall provide protection from accidental discharge of prohibited materials or other wastes regulated by this article.
- (b) In order to facilitate countermeasures to be taken by the city to minimize damage to the sanitary sewer system and degradation of the receiving waters, industrial users shall notify the department immediately after the occurrence of any accidental discharge of wastes in violation of this article. This notification shall be followed within fifteen (15) days of the date of occurrence by a detailed written statement describing the causes of the accidental discharge and the measures taken to prevent future occurrences.
- In order to keep employees of (c)permittees informed of the departments' requirements, permittees shall make available to their employees copies of this article, together with such other wastewater information and notices which may be furnished by the city from time to time for the purpose of improving and making more effective water pollution control. A notice shall be furnished and permanently posted on the permittee's bulletin board advising officers. agents, and employees the number to call in case of an accidental discharge in excess of the limits authorized.

Sec. 47-196. Change of ownership or location of discharge.

Industrial waste permits may neither be assigned nor be transferred. Whenever a person other than the permittee becomes the industrial user at the site of a permitted establishment, or whenever there is a change in discharge location, the prior permit is void and an application for a new permit shall be made.

Sec. 47-197. Protreatment.

- (a) Pretreatment shall be required in the following instances:
 - (1) The utility official determines upon the initial application for a permit that the proposed industrial waste must be pretreated by the permittee to comply with the requirements of this article.
 - (2) The utility official determines that pretreatment, or an additional level of pretreatment, is required for the city to improve the discharge from the sewer system to comply with a city discharge permit, court order,

or order from a state or federal agency.

(3) The utility official determines that an industrial user is discharging wastewater that does not comply with the requirements of this article.

Pretreatment facilities shall be provided, operated, and maintained at the permittee's expense.

- (b) Any sludge or other material removed from the industrial waste by the pretreatment facility shall be disposed of in accordance with applicable federal, state, and local laws, and records or manifests for such disposal shall be made available for inspection upon request by the department.
- (c) Except where expressly authorized by applicable pretreatment standards, no industrial user shall increase the use of the process water or in any other way attempt to dilute its industrial waste discharge as a partial or complete substitute for adequate treatment to achieve compliance with the discharge standards established in accordance with this article.
- Detailed plane (d) ebowing pretreatment facilities shall be submitted to the utility official for approval before construction of the facilities. The review and approval of plans will in no way relieve any permittee from the responsibility of modifying and operating the facilities to produce an effluent complying with this article and the permit. Any subsequent, significant changes in the approved facilities or method of operation shall be reported to the utility official and must be reviewed and approved by the utility official as complying with the provisions herein established.
- (e) After the construction plans for such pretreatment plants have been approved and an industrial waste permit issued, a building permit for the construction may be issued.
- The city's industrial Waste pretreatment program has been approved by the IPA. Thereby, the city as POTW/Control Authority accedes to all powers, duties, and responsibilities promulgated by the EPA for a POTW/Control Authority. The utility official shall be authorized to act for the city as Control Authority of POTW. As POTW/Control Authority, the city shall have the legal authority, pursuant to this subsection, to enforce any and all pretreatment standards as well as pretreatment requirements specified by regulations promulgated by the EPA, but including not limited to the powers enumerated in 40 CFR 403.3(f)(1) as well as any amendments thereto, and same are hereby incorporated herein by this teferance.

Any industrial user who is subject to pretreatment scandards shall file with the utility

KG COH 002444

Waste Manifests Appendix C

April 27, 1998 W.O. #422-09

KG COH 002445

Dinvironmental Resource Means earch)

7 (52)(12 East FreeWey Stime 20)

12(12 East FreeWey (52))

(22) \$77228025

Austin, Texas 78711-3087



TCK-024757) T-10.88

WASTE MANIFEST	T X 0 0.0 0 8 2 0.2 6 6 D	Manifest ocument No.	2. Page		ation in the shaded are: required by Federal la
 Generator's Name and Mailing Address Southern Pacific Railroad 4910 Liberty Road 				WM (www	cument Number A 01789
Houston, TX 4. Generator's Phone (402) 271-59	779			Generator's 1547	
5. Transporter 1 Company Name	6. US EPA ID Numi	oer	C. State	Transporter'	s.ID 84829
7. Transporter 2 Company Name	- +N/A · · · · ·		D. Trans	porter's Pho	ne 713-864-6540
7. "ansporter 2 company Name	8. US EPA ID Numi		E State	Iransporter:	s ID
9. Designated Facility Name and Site Addres			G. State	Facility's ID	
Atascocita RDF			-	++H1307+	
3623 Wilson Road Humble, TX 77396	1 2210135			ty's Phone	
	Per Shipping Name, Hazard Class, and ID	1.4 7 ·	ainers	281-44 13.	5-6545
Number)	per Graphing Harrie, Flazard Class, and ID	No.	Туре	Total	Unit Wt/Vol Waste No
a.					1995038
Non-Regulated Material	(soil)	01	D	12	Y .04003011
b.					100000000000000000000000000000000000000
()		100			
- C			1.1		1500
ā,					
d.		1 1	1		200000000000000000000000000000000000000
#					
L'Additional Descriptions for Materials Listed	Above /**	California de la Califo	· K*Hand	Soci Codeside	x Wastes Listed Above
			1		
Vasce Kenagement Proffit Chimo	व का (विक	3	MI=	2	
15. Special Handling Instructions and Addition					
	••			•	•
16. GENERATOR'S CERTIFICATION: I hereby de	iclare that the contents of this consignment are fr	illy and accura	talu dascrit	and shows by	nmoer chioning game and
ment regulations, including applicable state rec	ma ni en lesbectz in biobel colicidos fol histisbol	t by nighway a	ccording to	applicable in	emational and national gov
TO THE RESERVE AND THE PARTY OF	I have a program in place to reduce the volume ted the practicable method of treatment, storage	a diament a	. 	erated to the	legree I have determined t
future threat to human health and the environme best waste management method that is available	EE: Un. E (20) 2 Single in Minny renerator head	made a good f	aith effort to	minimize my	mich minimizes the present waste generation and selec
Printed/Typed Name	Signature C			\	Mark Day
Edda H. Honta	orginature 2). -11	A	Jones	Month Day
17. Transporter 1 Acknowledgement of Recei	pt of Materials	<u> </u>	-	OFILE	Date
Printed/Typed Name	Signature	2	, ,		Month Day ,
Ramico Hartda	Kamera	Yau	edu		Month Day /
 Transporter 2 Acknowledgement of Received/Typed Name 					Date
· ····································	Signature				Month Day
19. Discrepancy Indication Space	1				
VC COH 002446					
KG COH 002446					
20. Facility Owner or Operator: Certification of	receipt of hazardous materials govered b	y this manife	st except	as noted in I	tem 19.
					Date
Rrinted/Typed Name	Signature	1			Month Day.

Austin, Texas 78711-3087



JCL 0847565 7.71

Month Day, Yes

	UNIFORM HAZARDOUS 1. Generator's t WASTE MANIFEST T X 0 0 0		anifest ument No.	2. Pag	e 1 Informa	ation in t	50-0039, espires 09/ he shaded area
3. Ge	nerator's Name and Mailing Address	7.0 9.2.0.2.9 9 . 0.00.0	inent No.	A State	Manifest Doo		by Federal la
	Southern Pacific Railroad			1	WM	Δ (01788
	4910 Liberty Road			B. State	Generator's	ID	<u> </u>
	Houston, TX nerator's Phone (402) 271-5979				1547		2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
5. Tra	nsporter 1 Company Name	6. US EPA ID Number					34829
7 7	Pulido Trucking	· · · · · · · · · · · · · · · · · · ·		D:Tran	sporter's Phor	1 0 🔆 7	13-864-6540
7. Ira	nsporter 2 Company Name	8. US EPA ID Number		E.State	Transporter's	ID: Y	
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	Humble, TX 77396	. T X D O 1 6.6 7 3 1	1.4.7	1 30000 ees	The second second		
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16. 6	ENERATABLE CERTIFICATION IN THE PARTY OF THE						
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20. Fa	cility Owner or Operator: Certification of receipt of haz	ardous materials covered by the	his manile:	st except	as noted in It	em 19.	
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Austin, Texas 78711-3087

Houston, TX 4. Generator's Phone (

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

UNIFORM HAZARDOUS

WASTE MANIFEST

3. Generator's Name and Mailing Address Southern Pacific Railroad

9. Designated Facility Name and Site Address

4910 Liberty Road

5. Transporter 1 Company Name

Pulido Trucking

7. Transporter 2 Company Name

Atascocita RDF 3623 Wilson Road

Humble, TX 77396



1. Generator's US EPA ID No.

271-5979

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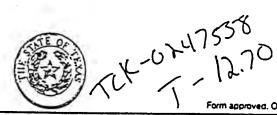
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2. Page 1 Manifest Information in the shaded areas Document No. is not required by Federal law. A. State Manifest Document Number WMA 017 B. State Generator's ID. 31547 US EPA ID Number C. State Transporter's ID 84829 N/A De Transporteris Phone - 713-864-6540 US EPA ID Number E. State Transporter's ID F. Transporter's Phone US EPA ID Number H. Facility's Phone -. T X D .0 1 6.6 7 3 1 .4 7 281-446-6545 11. A 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID | 12. Containers |

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P.O. Box 13087

Austin, Texas 78711-3087



Please print or type. (Form designed for use on elite (12 pitch) typewriter.) Form approved, OMB No. 2050-0039, expires 09/30/: **UNIFORM HAZARDOUS** 1. Generator's US EPA ID No. 2. Page 1 Manifest Information in the shaded areas T X 0 0 0 0 C 2 0 2 6 6 **WASTE MANIFEST** Document No. is not required by Federal law. 3. Generator's Name and Mailing Address A. State Manifest Document Number Southern Pacific Railroad WMA 01786 4910 Liberty Road B. State Generator's ID 4. Generator's Phone (402) 271-5979 31547 5. Transporter 1 Company Name US EPA ID Number C. State Transporter's ID 84829 Pulido Trucking D. Transporter's Phone 713-864-6540 4/15 7. Transporter 2 Company Name US EPA ID Number E. State Transporter's ID VIEH 205 71 F. Transporter's Phone G. State Facility's ID 9. Designated Facility Name and Site Address US EPA ID Number H1307 - .. Atascocita RDF 3623 Wilson Road H. Facility's Phone Humble, TX 77396 T X.D 0 1 6.6 7 3.1 4 7. 281-446-6545 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID 12. Containers 11. A HM Unit Waste No. No. Type Quantity a. Non-Regulated Material (soil) GEZER ATOR 01 D 04003011 b. d. J. Additional Descriptions for Materials Listed Above K. Handling Codes for Wastes Listed Above Waste: Management Profile Number 511481 15. Special Handling Instructions and Additional Information 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national govern ment regulations, including applicable state regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment, OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Printed/Typed Name Signature Edwin H. Honia Transporter 1 Acknowledgement of Receipt of Materials Date Printed/Typed Name Signature Day Month 18. Transporter 2 Acknowledgement of Receipt of Materials Date Printed/Typed Name Signature Month Day 19. Discrepancy Indication Space KG COH 002449 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Austin, Texas 78711-3087

Houston, TX 4. Generator's Phone

GWZWRATOR

*ZWPORTER

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

UNIFORM HAZARDOUS

WASTE MANIFEST

3. Generator's Name and Mailing Address

4910 Liberty Road

5. Transporter 1 Company Name

Pulido Trucking

7. Transporter 2 Company Name

Atascocita RDF .

3623 Wilson Road

Humble, TX 77396

Southern Pacific Railroad

SK420- TK

9. Designated Facility Name and Site Address

402 1

271-5979



Form approved.*OM8 No. 2050-0039, expires 09/30/95 1. Generator's US EPA ID No. 2. Page 1 Manifest Information in the shaded areas T X 0 0 0 0 8 2 0 2 6 6 Document No. is not required by Federal law. A. State Manifest Document Number WMA 01785 B. State Generator's ID 31547 6. US EPA ID Number D.:Transporter's Phone 713-864-6540 190 8. E. State Transporter's ID US EPA ID Number F. Transporter's Phone G. State Facility's ID H1307 US EPA ID Number H. Facility's Phone 281-446-6545 - TX.D.D 1 6.6 7 3 1.4 7 11. A 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID 12. Containers 13. 14.

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Austin, Texas 78711-3087

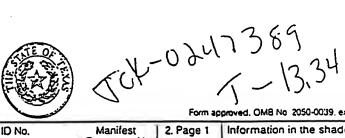


Form approved. OMB No. 2050-0039, expires 09/30/95

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	Houston TY			1000	1547	Action March 1	
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16.	Special Handling Instructions and Additional Information GENERATOR'S CERTIFICATION: I hereby declare that the contents of this classified, packed, marked, and labeled, and are in all respects in proper coment regulations, including applicable state regulations. If I am a large quantity generator, I certify that I have a program in place to economically practicable and that I have selected the practicable method of future threat to human health and the environment; OR, if I am a small quantitions the stream of the practicable method of the practicable method that is available to me and that I can afford	reduce the volume a f treatment, storage, o ty generator, I have m	nd toxicity of or disposal	according of waste (currently	g to applicable generated to the available to me	e degree ! which mi	have determined nimizes the preser
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P.O. Box 13087

Austin, Texas 78711-3087



m approved, OMB No. 2050-0039, expires 09/30/95

	WASTE MANIFEST T X 0 0 0 0 8 1		11		Manifest Doc		umber
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15.	Special Handling Instructions and Additional Information	'				••	
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Austin, Texas 78711-3087

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5. Special Handling	Instructions and Add	ditional Information	00					
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Austin, Texas 78711-3087

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Form approved, GM8 No. 2050-0039, expires 09/30/95

UNIFORM HAZARDOUS WASTE MANIFEST		Manifest ocument No.	2. Page	is not r	equired	by Federal law.
3. Generator's Name and Mailing Address Southern Pacific Railroad				Manifest Doc		
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Pulido Trucking	1 · N/A					13-864-6540
7. Transporter 2 Company Name	8. US EPA ID Numi	per				
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19. Discrepancy Indication Space						
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20. Facility Owner or Operator: Certifica	ation of receipt of hazardous materials covere	d by this mar	ilest exc	cept as noted	in Item 1	9.
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Austin, Texas 78711-3087



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3. Generator's Name and Mailing Address				WM/		11781 -
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16. GENERATOR'S CERTIFICATION: I hereby declare that	the contents of this consignment are	tilly and act	curately de	scribed above t	by proper	shipping name and
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Austin, Texas 78711-3087



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Austin, Texas 78711-3087

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



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Form approved. OMB No. 2050-0039, expires 09/30/

UNIFORM HAZARDOUS 1. WASTE MANIFEST	Generator's US EPA ID No. T X 0 0 0 0 8 2 0 2 6 6	Manifest Document No.	2. Page 1	Information is not	ation in t required	he shaded areas I by Federal law
3. Generator's Name and Mailing Address Southern Pacific Railroad				anifest Do		lumber 01780 -
4910 Liberty Road				enerator's		31100
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5. Transporter 1 Company Name	6. US EPA ID N	lumber		ansporter:		14829
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7. Transporter 2 Company Name	8. US EPA ID N	lumber		ansporter's		
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9. Designated Facility Name and Site Address	10. US EPA ID N	lumber	G. State F	acility's ID	100	Red Texas
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16. GENERATOR'S CERTIFICATION: I hereby dec						
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Austin, Texas 78711-3087

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approved. OMB No 2050-0039, expires 09/30/9 **UNIFORM HAZARDOUS** 1. Generator's US EPA ID No. Manifest 2. Page 1 Information in the shaded areas WASTE MANIFEST T X 0 0 0 0 8 2 0 2 6 6 Document No. is not required by Federal law. 3. Generator's Name and Mailing Address A. State Manifest Document Number Southern Pacific Railroad WMA () 4910 Liberty Road B. State Generator's ID 4. Generator's Phone 31547 402) 271-5979 C. State Transporter's ID 84829 5. Transporter 1 Company Name 6. US EPA ID Number DeTransporter's Phone 713-864-6540 Pulido Trucking E State Transporter's ID 7. Transporter 2 Company Name 8. US EPA ID Number F. Transporter's Phone . . G. State Facility's ID 9. Designated Facility Name and Site Address US EPA ID Number ------ H1307 ·Atascocita RDF · 3623 Wilson Road H: Facility's Phone Humble, TX 77396 TX-9 8 1 6 6 7 3 1 4 7 12. Containers C S 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID 13. Unit Total HM Waste No. Wt/Vol No. Quantity a. Non-Regulated Material (soil) GENERATOR 01 04003011 b. lottonal Descriptions for Materials Eisted Above K Handling Codes for Wastes Listed Above Waste Management Profile Number 511481 Special Handling Instructions and Additional Information 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Printed/Typed Name Signature Edda H. Honia 17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Signature Month Day Year IGUEL CAYDLOS 18. Transporter 2 Acknowledgement of Receipt of Materials ORTER Date Printed/Typed Name Signature Day Month 19. Discrepancy Indication Space FACILI KG COH 002458 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Austin, Texas 78711-3087

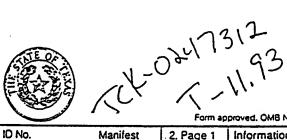
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Austin, Texas 78711-3087 Please print or type. (Form designed for use on elite (12 pitch) typewriter.) Form approved, OMB No. 2050-0039, expires 09/30/9 UNIFORM HAZARDOUS 1. Generator's US EPA ID No. Manifest 2. Page 1 Information in the shaded areas **WASTE MANIFEST** Document No. T X O O O O B 2 O 2 6 6 is not required by Federal law. 3. Generator's Name and Mailing Address A. State Manifest Document Number Southern Pacific Railroad WMA 01 4910 Liberty Road B. State: Generator's ID 4. Generator's Phone 402) 271-5979 5. Transporter 1 Company Name C. State Transporter(s.ID :::::84829 :::::::: 6. US EPA ID Number Pulido Trucking Di Transporter's Phone 713-864-6540 7. Transporter 2 Company Name US EPA ID Number E. State Transporter's ID BRHZOS TRUCKIN E. Transporter's Phone 9. Designated Facility Name and Site Address G. State Facility's ID: US EPA ID Number H1307 Atascocita- RDF 3623 Wilson Road H. Facility's Phone Humble, TX 77396 TX-0-0 1 6-6 7 3 1-4 7 28T-11. A HM 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID 12. Containers 13. Total 14. Unit Waste No No. Type Quantity Wt/Vol a. Non-Regulated Material (soil) GEZERATOR 01 b. J. Additional Descriptions for Materials Ested Above Ke Handling Codes for Wastes Listed Above Naste Management Profile Number 511481 15. Special Handling Instructions and Additional Information 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state 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 Day Edda H. Honia 17. Transporter 1 Acknowledgement of Receipt of Materials Date rinted/Typed Name Signature Month Day A NO A NEDIC 155 13 18. Transporter 2 Acknowledgement of Receipt of Materials Date Printed/Typed Name Day Signature Month Yei 19. Discrepancy Indication Space KG COH 002460 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

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Please print or type. (Form designed for use on elite (12 pitch) typewriter.) Form approved, OMB No. 2050-0039, expires 09/3 UNIFORM HAZARDOUS 1. Generator's US EPA ID No. Manifest 2. Page 1 Information in the shaded area: **WASTE MANIFEST** T X O O O O 8 2 O 2 6 6 Document No. is not required by Federal law 3. Generator's Name and Mailing Address A. State Manifest Document Number Southern Pacific Railroad WMA 017 4910 Liberty Road Houston, TX 4. Generator's Phone B. State Generator's ID 402) 271-5979 31547 5. Transporter 1 Company Name 6. US EPA ID Number C:State Transporter's ID 84829.... Pulido Trucking D: Transporter's Phone 7. Transporter 2 Company Name 713-864-6540 8. US EPA ID Number E. State Transporter's ID E. Transporter's Phone 9. Designated Facility Name and Site Address 10. G. State Facility's ID US EPA ID Number - Atascocita RDF #### H1307 3623 Wilson Road H. Facility's Phone -Humble, TX 77396 TX.D 0 1 6.6 7 3.1 4 7 -281-446-6545 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID 11. A HM 12. Containers Total Unit Wt/Vol Waste No. Type No. Quantity a. Mon-Regulated Material (soil) GEZERATOR 01 12 Y 04003011 b. J: Additional Descriptions for Materials Listed Above KE Handling Codes for Wastes Usted Above Waster Management: Proffle Number: 511481 M132 15. Special Handling Instructions and Additional Information 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national govern 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 Day Month Edwin H. Honia 17. Transporter 1 Acknowledgement of Receipt of Materials Date Printed/Typed Name Signature Month Day MIGUEL CATATOS. 13 18. Transporter 2 Acknowledgement of Receipt of Materials Date Printed/Typed Name Signature Month Day 19. Discrepancy Indication Space KG COH 002462 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Austin, Texas 78711-3087

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Form approved, OMB No. 2050-0039, expires 09/30/9:

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3. Generator's Name and Mailing Address Southern Pacific Railroad				MM/		
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Austin, Texas 78711-3087



UNIFORM HAZARDOU WASTE MANIFEST		US EPA ID No.	Manifest Document No.	2. Page 1 1			he shaded areas by Federal law
3. Generator's Name and Mailing Ad Southern Pacific Railroa	dress d	_			anilest Doc		umber 11437
4910 Liberty Road Houston, TX 4. Generator's Phone (402) 2	71-5979			B. State G	enerator's I	D	<u> </u>
5. Transporter 1 Company Name		6. US EPA IC	Number		ansporter's		829
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7. Transporter 2 Company Name		8. US EPA IC	Number		ansporter's		3-804-6540
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9. Designated Facility Name and Site Atascocita RDF	Address	10. US EPA IC	Number	G. State F	acility's ID:		
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15. Special Handling Instructions an	d Additional Informat	ion	7	1			
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19. Discrepancy Indication Space							
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20. Facility Owner or Operator: Certi	fication of receipt of h	azardous materials co	vered by this manif	est except a	s noted in	Item 19.	
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Austin, Texas 78711-3087

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Form approved, OMB No 2053-5039, expires 09/30/95

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		nerator's Name and Mailing Address Southern Pacific Railroad 4910 Liberty Road				\$\$.	nifest Docu WMA	/ - C	umber 11460
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Ш	16.	GENERATOR'S CERTIFICATION: I hereby classified, packed, marked, and labeled, as	declare that the contents of this consignment are in all respects in proper condition for	ent are fully and transport by hic	accurate thway ac	ely describe cording to a	d above by oplicable in	proper st ternation:	ripping name and are al and national govern
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П		future threat to human health and the enviro best waste management method that is ave	nment; OR, if I am a small quantity generato ilable to me and that I can afford.	, i nave mace a	a Good 18	iui enort to r	imminze iny	wasia de	rigizacon ano serect un
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Austin, Texas 78711-3087



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	or's US EPA ID No. Mani 0 0 0 8 2 0 2 6 6 Docum	fest lent No.	2. Pago 1	is not	equired	he shaded areas by Federal law.
3. Generator's Name and Mailing Address Southern Pacific Railroad				Manifest Doc		
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9. Designated Facility Name and Site Address Atascocita RDF	10. US EPA ID Number	- 1	G. Stat	e Facility's ID H1307	G.	
3623 Wilson Road Humble, TX 77396	1. T.X D O 1 6 6 73 1-4	7 .	100	lity's Phone		
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J. Additional Descriptions for Materials Listed Above	7.76		KiHar	dling Codes	or Waste	s Listed Above
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15. Special Handling Instructions and Additional Info	mation					·
15. GENERATOR'S CERTIFICATION: I hereby declare that classified, packed, marked, and labeled, and are in all ment regulations, including applicable state regulations. If I am a large quantity generator, I certify that I have a economically practicable and that I have selected the proture threat to human health and the environment; OR, if best waste management method that is available to me	espects in proper condition for transport by program in place to reduce the volume and racticable method of treatment, storage, or I am a small quantity generator, I have made	highway a toxicity o disposal o	ccording f waste g currently	to applicable in generated to the available to me	nternation degree I which mir	al and national gover have determined to simizes the present a
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18. Transporter 2 Acknowledgement of Receipt of Ma	sterials					Date
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19. Discrepancy Indication Space						
KG COH 002466						
20. Facility Owner or Operator: Certification of receip	t of hazardous materials covered by t	his manif	est exc	ept as noted in	tem 19)
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Austin, Texas 78711-3087

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3. Generator's Name and Mailing Address Southern Pacific Railroad 4910 Liberty Road		.24		IA: 01444
Houston, TX 4. Generator's Phone (402) 271-5979		2400	31547	C. 66.5
5. Transporter 1 Company Name	6. US EPA ID Number			's ID 84829
Pulido Trucking	N/A-	1	asponers Pho	ne 713-864-6540
7. Transporter 2 Company Name SRATOS 1 PAGE 2/9	8. US EPA ID Number		Sporter S Pho	
9. Designated Facility Name and the Address	10. US EPA ID Number		tate Facility's ID	- Array - Transfer - Control - Contr
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16. GENERATOR'S CERTIFICATION: I hereby declar classified, packed, marked, and labeled, and are in ment regulations, including applicable state regulat if I am a large quantity generator, I certify that I have economically practicable and that I have selected future threat to human health and the environment; thest waste management method that is available to	all respects in proper condition for transport believes, so the program in place to reduce the volume to the practicable method of treatment, storage, to OR. If I am a small quantity generator I have no OR. If I am a small quantity generator I have no OR.	disposal current	ing to applicable is generated to the ly available to me	nternational and national g degree I have determined which minimizes the ness
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20. Facility Owner or Operator: Certification of re	ceipt of hazardous materials covered by t	his manifest ex	cept as noted in	Item 19.
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P.O. Box 13087

Austin, Texas 78711-3087



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future threat to human health and the environment; OR, if I am a small quantit best waste management method that is available to me and that I can afford.	y generator, I have made a	good faith effor	t to minimize my	waste generat	on and select
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Austin, Texas 78711-3087



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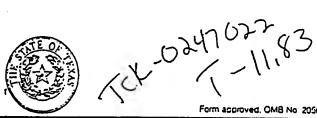
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15. Special Handling Instructions and Additional Information				• • • •
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future threat to human health and the environment; OR, if I am a small best waste management method that is available to me and that I ca	Quantity generator, I have made a good	faith effort to m	inimize my wast	e generation and sele
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Austin, Texas 78711-3087



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WASTE MANIFEST	1. Generator's US EPA ID No. T X 0 0 0 0 8 2 0 2 5 6	Manifest Document			on in the shaded area quired by Federal la
3. Generator's Name and Mailing Address Southern Pacific Railroad 4910 Liberty Road			A. State I	Manifest Docur	ment Number
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Pulido Trucking	27/42	• • • • •	D. Transp	orter's Phone	184829 184829 184829 184829
7. Transporter 2 Company Name		A ID Number	E. State 1	ransporters	
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16. GENERATOR'S CERTIFICATION: I hereby classified, packed, marked, and labeled, an including applicable state are quantity generator, I certify the	regulations. hat I have a program in place to reduce to	he volume and toxicit	y of waste gener	ated to the	curl have determined to
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P.O. Box 13087 Austin, Texas 78711-3087 Please print or type. (Form designed for use on elite (12 pitch) type-witer.) Form approved, OM8 No. 2050-0039, expires 09/30 UNIFORM HAZARDOUS 1. Generator's US EPA ID No. Manifest 2. Page 1 Information in the shaded areas Document No WASTE MANIFEST T X 0 0 0 0 8 2 0 2 5 6 is not required by Federal law. 3. Generator's Name and Mailing Address A. State Manifest Document Number Southern Pacific Railroad WMA 4910 Liberty Road B. State Generator's ID 4. Generator's Phone (31547 402) 271-5979 5. Transporter 1 Company Name US. EPA ID Number C. State Transporter's ID 84829 Pulido Truckina -D. Transporter's Phone 7. Transporter 2 Company Name Number 8. E. State Transporter's ID F. Transporter's Phone 9. Designated Facility Name and Site Address US EPA ID Number G. State Facility's ID 25011307 Atascocita RDF 3623 Wilson Road Humble, TX 77396 TX D O 1 6 6 7 3 1 4 7 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID 12. Containers 11. / HM Number) Type No. a. GWZUIR 4 Non-Regulated Material (soil) 91 DT 04003011 b. J. Additional Descriptions for Materials Listed Above Edes for Wastes Listed Above - Waste Management Profile Number 511481 15. Special Handling Instructions and Additional Information. DENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper stressed name and are packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international according to applicable state regulations. the state of the degree Loans state regulators.

It is the quantity generator, I cartify that I have a program in place to reduce the volume and toxicity of waste generated to the degree Loans statement to be practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present are those 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 content of the content inged typed Name Signature 4 Month Day BEDIN . 172 ransporter 1 Acknowledgement of Receipt of Materials Date Printed/Typed Name Signature Day Month 12 18. Transporter 2 Acknowledgement of Receipt of Materials Date Printed/Typed Name Signature Day with Mamus 19. Discrepancy Indication Space KG COH 002471

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

Austin, Texas 78711-3087



UNIFORM HAZARDOUS WASTE MANIFEST 1. Generator's U T X 0 0 0	S EPA ID No. 0 8 2 0 2 6 6	Manifest Document No.	2. Page 1			he shaded areas by Federal law.
3. Generator's Name and Mailing Address Southern Pacific Railroad 4910 Liberty Road			A. State N	Aanifest Docu		1umber 01448
Houston TX 4. Generator's Phone (402) 271-5979			B. State 0	Senerator's II)	
5. Transporter 1 Company Name	6. US EPA ID N	umber	.C. State.1	iransporter's	ID 84	1829
Pulido Trucking	. N/A			orter's Phone		13-864-6540
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Designated Facility Name and Site Address Atascocita RDF	10. US EPA ID N	umber	G. State I	H1307		Alma.
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Maste Management Profile: Number 51:1481 15. Special Handling Instructions and Additional Information	n					
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Austin, Texas 78711-3087

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



CY-02416902 T-7.98 Form approved, OMB No. 2050-0039, expires 09/30/5

	UNIFORM HAZARDOUS WASTE MANIFEST 1. Generator's US EPA ID N T, X, 0, 0, 0, 0, 8, 2, 0, 2		ifest nent No.	2. Page 1		ion in the shaded areas quired by Federal law.
	B. Generator's Name and Mailing Address Southern Pacific Railroad 4910 Liberty Road			· ·		ment Number 01433
1	Houston, TX Generator's Phone (402) 271-5979				7	
	1.416	US EPA ID Number				ID 84829
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	16. GENER C.S. CERTIFICATION: I hereby declare that the contents of the classifier o	condition for transport by to reduce the volume an of treatment, storage, o sity generator, I have ma	y highway i d toxicity o c disposal (according to if waste gen currently av	o applicable into nerated to the o silable to me w	emational and national gove degree I have determined to hich minimizes the present a waste generation and select
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Austin, Texas 78711-3087



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Please print or type. (Form designed for use on elite (12 pitch) typewriter.) Form approved GMB No 2050-0039, expires 09/30 **UNIFORM HAZARDOUS** 1. Generator's US EPA ID No. 2. Page 1 Manifest Information in the shaded areas T X 0 0 0 0 8 2 0 2 6 6 Document No. **WASTE MANIFEST** is not required by Federal law. 3. Generator's Name and Mailing Address A. State Manifest Document Number Southern Pacific Railroad ----**WMA**----01 4910 Liberty Road B. State Generator's ID Houston, TX 4. Generator's Phone (402) 271-5979 31547 5. Transporter 1 Company Name 6. US EPA ID Number C:State Transponer's ID 84829 Pulido Trucking - H/A -DETERMINENT STATE 1713-864-6540 7. Transporter 2 Company Name 8. US EPA ID Number Experiensporter's ID Phone 7 SRATOS TRUCKIN 9. Designated Facility Name and Site Address Garage Facility's ID H1307 10. US EPA ID Number Atascocita RDF H. Facility's Phone 3623 Wilson Road Humble, TX 77396 281-446-6545 I.TX D 0.1 6 6 7.3 1 4.7 12. Containers 11. US DOT Description (including Proper Shipping Name, Hazard Cass, and ID Total HM die a mariante No. Type Quantity WtVo a. Non-Regulated Material (soil) .01 DT Y 04003011 GENERATOR b. d. J. Additional Descriptions for Materials Listed Above WasterManagement Profile Number 511481 15. Special Handling Instructions and Additional Information 16. GENERATOR'S CERTIFICATION: I have by declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, m ed, and are in all respects in proper condition for transport by highway according to applicable international and national gove. ment regulations, includ The second of the program in place to reduce the volume and toxicity of waste generated to the degree I have determined to the degree I have determined to the precise the precise the present a state of the practicable method of treatment, storage, or disposal currently available to me which minimizes the present a state of the precise If I am a large quantity go economically practicable and future threat to human health: best waste management method Printed/Typed Name Signature Month Day 17. Transporter 1 Acknowledgement of Receipt of Materials Date Printed/Typed Name Day Signatur Month 711 +7111 18. Transporter 2 Acknowledgement of Receipt of Materials Date Printed/Typed Name Day Signature Month 19. Discrepancy Indication Space KG COH 002474 . 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

TEXAS NATURAL RESOURCE

TCK-0246900 T-10.75

CONSERVATION COMMISSION P.O. Box 13087 Austin, Texas 78711-3087 Form approved, CM8 No. 2050-0039, expires 09/30/95 Please print or type. (Form designed for use on elite (12 pitch) typewriter.) Information in the shaded areas 1. Generator's US EPA ID No. Manifest 2. Page 1 UNIFORM HAZARDOUS Document No. is not required by Federal law. T X 0 0 0 0 8 2 0 2 5 6 WASTE MANIFEST A. State Manifest Document Number 3. Generator's Name and Mailing Address WMA 014 Southern Pacific Railroad B. State Generator's ID 4910 Liberty Road 31547 Houston, TX 4. Generator's Phone (402) 271-5979 C. State Transporter's ID 84829 6. US EPA ID Number 5. Transporter 1 Company Name D. Transporter 2 Phone 713-864-6540 Pulido Trucking E State Transpictions ID US EPA ID Number 8. 7. Transporter 2 Company Name F. Transporte & Some *i0.* SRATOS IRHCKI G. State Faculty #40 US EPA ID Number 9. Designated Facility Name and Site Address H1307 -Atascocita RDF H. Facility's Phone 3623 Wilson Road -281-446-6545 1. T X D Q-1 6 6 7 3 1 4.7 Humble, TX 77396 12. Containers 13. 11. US DOT Description (including Proper Shipping Name, Hazard Class, and Total WtVo Quantity Type No. HM Number) a. 01 Non-Regulated Material (soil) GEZWRAT b. c. d. J. Additional Descriptions for Materials Listed Above Waste Management Profile Number 511481 15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION reby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and are in all respects in proper condition for transport by highway according to applicable international and national govern ment regulations, including applicable state regulations.

Ment regulations, including applicable state regulations.

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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.

Signature

Date Month nav

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Austin, Texas 78711-3087



FIGHT LOADS OF STONED STORM WHITE PEMONTO FROM TWO FPAC TANKS FOR DISPOSAL (17,735 gol)

Form approved. OMB No. 2050-0039, expires 09 30 5

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Austin, Texas 78711-3087



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P.O. Box 13087

Austin, Texas 78711-3087

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Form approved. OM8 No. 2050-0039, expires 09 30 95

	UNIFORM HAZARDOUS WASTE MANIFEST 1. Generator's US EPA ID No. 7. X 0 0 0 9. 2 0 2 4 4 10	Manifest ocument No.	2. Pag			he shaded areas by Federal law.
3.	Generator's Name and Mailing Address Southern Profice Poulton 1		A. Sta	te Manifest Doc	ument Nu)66488
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Austin, Texas 78711-3087





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Form approved. CMB No. 2050-2039, expires 09-30 5

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Austin, Texas 78711-3087



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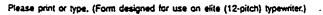
Austin, Texas 78711-3087



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	4. Generator's Phone (402) 27/-59	779			31547			
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н	20. Facility Owner or Operator: Certification of re-	ceipt of hazardous materials covered by th	is manifes	excer	t as noted in It	em 19.		
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Austin, Texas 78711-3087





Form accroved, QMB No. 2050-0039, expires 09.30

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	3. Generator's Name and Mailing Address Southern Pacific Rollord			A. State	Manilest Docu		966492
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Ш	4. Generator's Phone (402) 27/-: 5. Transporter 1 Company Name	5-9-7-9 6. US EPA ID No	ımbar		Transporter's	n S	1054
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	7. Transporter 2 Company Name	8. US EPAID No			Transporter's		
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Ш	5800 WALLISUILLE				ity's Phone		
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Austin, Texas 78711-3087



#460102

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

Form approved. OMB No 2050-0039, etc. res 09 3

A	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. ア. メ. の	Manifest Document No	2. Pa	1 1110111	nation in	the shaded area
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TEXAS NATURAL RESOURCE
CONSERVATION COMMISSION
P.O. Box 13087
Austin, Texas 79711-3087

Please print or type. (Form designed for use on elle (12-pitch) typewrite.

Form approved CIAR No. 2050 mass and

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TEXAS NATURAL RESOURCE CONSERVATION COMMISSION P.O. Box 13087 Austin, Texas 78711-3087



THIS IS THE WASH WATER
FROM JUL CLEMENTS OF FE
THOUSE USED FOR
STORMANTON STORAGE

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

STORM WATER STORAGE

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Austin, Texas 78711-3087

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Form approved, OMB No. 2050-0039, expires 09/30/5

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Form approved. OMB No. 2050-0039, expires 09/30.

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Austin, Texas 78711-3087

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



TCY-0247439 TCY-0247439

Form approved, OM8 No. 2050-0039, expires 09/30/9

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P.O. Box 13087

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TCK-U2417408 T-1315

Form approved. CM8 No. 2050-0039, expires 09/30/9

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. T X 0 0 0 0 8 2 0 2 6 6	Manifest Document No.	2. Page 1	Informatis not	ation in the	ne shaded area by Federal la
3. Generator's Name and Mailing Address Southern Pacific Railroad			A. State M	anifest Doc	cument N	umber
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9. Designated Facility Name and Site Address Atascocita RDF	ess 10. US EPA ID	Number	G. State F.	acility's ID	496.14%	A SEC. OF
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Humble, TX 77396	TXD.016.6	73147	n racilly	s Phone	CT20055.00 MACCO	
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Austin, Texas 78711-3087

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



TCK-0247008 T-10.68

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3. Generator's Name and Mailing Add Southern Pacific Railroad 4910 Liberty Road	ress				te Manifest Do	cument	
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Austin, Texas 78711-3087



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UNIFORM HAZARDOUS WASTE MANIFEST 1. Generator's US EPA ID No. T X 0 0 0 0 8 2 0 2		anifest ument No.	2. Pag 1	je i Inform is not	ation in required	the shaded are: d by Federal la
3 Generator's Name and Mailing Address Southern Pacific Railroad			A. Stat	e Manifest Do		
4910 Liberty Road				WM	A	01446
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Houston TX 4. Generator's Phone (402) 271-5979			3	1547		
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economically practicable and that I have selected the practicable method of tre- future threat to human health and the environment; OR, if I am a small quantity ge best waste management method that is smaller to a continuous						
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19. Discrepancy Indication Space					-	
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20. Facility Owner or Operator: Certification of receipt of hazardous materia	als covered by ti	nis manifes	t except	as noted in It	em 19.	
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Austin, Texas 78711-3087



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20. Facility Owner or Open	ator: Certification	on of receipt of h	nazardous m	aterials cov	ered by this	s manife	est exce	ot as noted in	Item 19.	
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Austin, Texas 78711-3087



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9	erator's Name and Mailing Address Southern Pacific Railroad 1910 Liberty Road Houston, TX Herator's Phone (402) 271-5979			B. Stat	e Manilest Doo WM e Generator's	A (01458
	ierator's Phone (402) 271-5979 isporter 1 Company Name	6 NC CDA IO N			1547		
	Pulido Trucking	6. US EPA ID Number	1		e.Transporter's		13-864-6540
	sporter 2 Company Name	8. US EPA ID Number					13-004-0340
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Date

P.O. Box 13087 Austin, Texas 78711-3087 Please print or type. (Form designed for use on effe (12 pitch) typewriter.) Form approved. OMB No. 2050-0039, expires 09/30/5 UNIFORM HAZARDOUS 1. Generator's US EPA ID No. Information in the shaded areas Manifest 2. Page 1 **WASTE MANIFEST** T X 0 0 0 0 8 2 0 2 6 6 Document No. is not required by Federal law. 3. Generator's Name and Mailing Address A. State Manifest Document Number Southern Pacific Railroad **WMA** 01463 4910 Liberty Road B. State Generator's ID 4. Generator's Phone (271-5979 31547 5. Transporter 1 Company Name 6. US EPA ID Number C. State Transporter's ID 37 84829 Pulido Trucking D: Transponer's Phone: 8: 713-864-6540 N/A 7. Transporter 2 Company Name 8. US EPA ID Number E. State Transporter's ID E Transporter's Phone 9. Designated Facility Name and Site Address G State Facility's ID US EPA ID Number ---- H1307 --Atascocita RDF 3623 Wilson Road H. Facility's Phone Humble, TX 77396 TX0016673.147. 281-446-6545 11. A HM 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID 12. Containers 14. Unit 13. Total Waste No. No. a. Non-Regulated Material (soil) 01 D 04003011 b. J. Additional Descriptions for Materials Listed Above K. Handling Codes for Wastes Waste Management Profile Number 511481 15. Special Handling Instructions and Additional Information 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state 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 Day 1 17. Transporter 1 Acknowledgement of Receipt of Materials Date Printed/Typed Name Gracio Alevara 18. Transporter 2 Acknowledgement of Receipt of Materials Date Printed/Typed Name Signature Day Month 19. Discrepancy Indication Space KG COH 002495

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

Austin, Texas 78711-3087



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	enerator's US EPA ID No. M	anilest ument No.	2. Pag	e 1 Informa	ation in	050-0039, expires 09/30/ the shaded areas d by Federal law.
3. Generator's Name and Mailing Address Southern Pacific Railroad 4910 Liberty Road			Y.,	e Manifest Doc WM e Generator's	cument i	Number .
Houston, TX 4. Generator's Phone (402) 271-5979			+ 90 a	1547		
5. Transporter 1 Company Name Pulido Trucking	6. US EPA ID Number		C. Stat	e Transporter's	ID:::/8	14829
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15. Special Handling Instructions and Additional				132		
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Austin, Texas 78711-3087



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Austin, Texas 78711-3087

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11	Printed Typed Name	Signature +	, les	1. L			Month Day Yes
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K	G COH 002498						
	Facility Owner or Operator: Certification of receipt of haz-	ardous materials covered by t	his manile	st excer	ot as noted in	Item 19.	
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Austin, Texas 78711-3087

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	nerator's Name and Mailing Address Southern Pacific Railroad 4910 Liberty Road				(50	ate Manifest Do	Cument N	lumber)1454
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	insporter 1 Company Name	6.	US EPA ID I	Number	C. St	ate Transporter	's ID	4829
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7. Tra	insporter 2 Company Name	8.	US EPA ID I	lumber	E.St	te Transporter	s ID	9444
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Austin, Texas 78711-3087

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A		US EPA ID No.	Manifest	2. Pag	e 1 Informa	ation in	050-0039, expires 09/3 the shaded areas
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3	Transporter 1 Company Name	6. US EPA ID Number					4829
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	3623 Wilson Road			*********			性的性質的學問題
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-	ment requistions, including applicable state regulations	and higher common to the bott	DA INGLIMEN E	ccoraing :	to applicable into	emationa	l and national govern
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Austin, Texas 78711-3087

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	enerator's Name and Mailing Address Southern Pacific Railroad 4910 Liberty Road		- 77		e Manifest Do	cument	
4. Ge	Houston, TX enerator's Phone (402) 271-5979			B. Stat	e Generator's 1547	ID	01433
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Austin, Texas 78711-3087

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	3. G	enerator's Name and Mailing Address Southern Pacific Railroad 4910 Liberty Road			A. Sta	te Manifest Do	cument l	Number
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.XTURAL RESOURCE CONJERVATION COMMISSION P.O. Box 13087 Austin, Texas 78711-3087

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Austin, Texas 78711-3087



TCK-0247023

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's T X 0 0 0		Manifest Document No.	2. Pag 1			the shaded areas by Federal law
3. Generator's Name and Mailing Address Southern Pacific Railroad					Manifest Doc		Number 0 1 4 5 1
4910 Liberty Road				-	e.Generator's		31431
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best waste management method that is av-			to mess a good		17.		
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Austin, Texas 78711-3087

TCX-0247043

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

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	WASTE MANIFEST TX 0 0 0		anifest ument No.	2. Pag	ge 1 Inform	ation in	oso-0039, expires 090 the shaded area d by Federal lav
3. 0	Senerator's Name and Mailing Address Southern Pacific Railroad 4910 Liberty Road			A. Sta	te Manifest Do	cument	
4.0	Houston TX enerator's Phone (402) 271-5979				te Generator's 1547		
5. 1	ansporter 1 Company Name	6. US EPA ID Number		C. Sta	le Transporter	s ID: 8	4829
7 7	Pulido Trucking ransporter 2 Company Name	· N/A· · · · ·		D. Trai	nsporter's Pho	ne 7	13-864-6540
	amporter 2 company Name	8. US EPA ID Number					a.M. Torkiji ve
9. 0	esignated Facility Name and Site Address	10. US EPA ID Number		I Jran	sporter's Phor	10	The second
	Atascocita RDF	10. US EPA ID Number		G. Sta	te Facility's ID H1307		
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-	Number)		No.	Туре	Total Quantity	Unit Wt/Vol	Waste No.
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	ditional Descriptions for Materials Listed Above Naste: Hanagement: ProfFTe Rumber: 51:1481 Special Handling Instructions and Additional Information				ini) C(des (w Waste	s Listed Above
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Austin, Texas 78711-3087

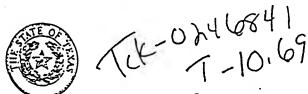


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9. Designated Facility Atascoci ta RI)F	ess ·	10. US EPA	D Number		G. Sta	te Facility's ID H1307		
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11. A 11. US DOT De HM Number)	escription (including f	Proper Shipping Na	me, Hazard Class,	and ID	12. Conta	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
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J. Additional Descript						Кан	day Codes in	Waste	s Listed Above
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Austin, Texas 78711-3087

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Date

Please poot or type. (Form designed for use on elite (12 pitch) typewriter.) Form approved, OMB No. 2050-0039, expires 09/30/ UNIFORM HAZARDOUS 1. Generator's US EPA ID No. Manifest 2. Page 1 Information in the shaded areas **WASTE MANIFEST** T X 0 0 0 0 8 2 0 2 5 6 Document No. is not required by Federal law. 3. Generator's Name and Mailing Address A. State Manifest Document Number Southern Pacific Railroad WMA 01426 * A ... 4910 Liberty Road Houston, TX 4. Generator's Phone (402 B.:State Generator's ID) 271-5979 31547 5. Transporter 1 Company Name US EPA ID Number 6 C: State Transporter's ID 84829 Pulico Trucking N/A D:Transporter's Phone 4713-864-6540 7. Transporter 2 Company Name 8. US EPA ID Number E State Transporter's ID F. Transponer's Phone 9. Designated Facility Name and Site Address 10. US EPA ID Number G. State Facility's ID: H1307 Atascocita RDF 3623 Wilson Road H. Facility's Phone Humble, TX 77396 .T.X D 0.1 6 6 7.3 1 4.7 281-446-6545 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID 11. A 12. Containers A ZOLINGO HM Total Unit Waste No. No. Type Quantity a. Non-Regulated Material (soil) 01 DT 04003011 NERATOR b. c d. J. Additional Descriptions for Materials Listed Above K Handling Edges for Wastes Listed Above Haste Management Profile: Number 511481 M132 Special Handling Instructions and Additional Information 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national govern-If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Printed/Typed Name Signature Month Day HONIG 17. Transporter 1 Acknowledgement of Receipt of Materials Date inted/Typed-Name Month Day INTOK 18. Transporter 2 Acknowledgement of Receipt of Materials Date Printed/Typed Name Signature Month Day Year 19. Discrepancy Indication Space KG COH 002507 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Austin, Texas 78711-3087

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	3. Generator's Name and Mailing Address Southern Pacific Railroad 4910 Liberty Road Houston Ti			B. State (Manifest Do WM Generator's	A (01427
I	Houston, TX 4. Generator's Phone (402) 271-5979				17. X		
	5. Transporter 1 Company Name	6. US EPA ID Numb	er		Transporter:		
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	· · · · · · · · · · · · · · · · · · ·	8. US EPA ID Numb	er .		oner's Phor		
	9. Designated Facility Name and Site Address Atascocita RDF	10. US EPA ID Numb	er	G. State	Facility's ID H1307	STATE OF	
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	Humble, TX 77396	. T.X D 0.1 6 6 7 3					
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ORTHR	18. Transporter 2 Acknowledgement of Receipt of Material Printed/Typed Name	Signature					Month Day Ye
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Austin, Texas 78711-3087

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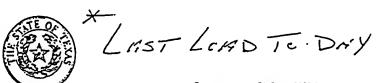


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WASTE MANIFEST TX 0 0		anifest ument No.	2. Pag 1	e 1 Informa	ation in the shaded areas required by Federal law.
3. Generator's Name and Maxims Address Southern Pacific Rational 4910 Liberty Road			1	. WM	A 01428
Houston, TX 4. Generator's Phone (402) 271-5979			B. 3(a)	e Generator's 547	D.
5. Transporter 1 Company Name	6. US EPA ID Numbe		C. Stat	e Transporter:	ID 84829 ×
Pulido Trucking	N/A		D. Tran	sporter's Phor	ne 713-864-6540
7. Transporter 2 Company Name	8. US EPA ID Numbe	•			ID A Mary Court Court
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15. Special Handling Instructions and Additional Information	ation				
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3. Generator's Name and Mailing Address Southern Pacific Railroad 4910 Liberty Road			A. State Ma	·WM.	A : ()	mber 1436
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5. Transporter 1 Company Name	6. US EPA ID Numbe	er	.C. State Tra	insporter's	ID . 848	29 👯 🦠
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15. Special Handling Instructions and Additional Info 16. GENERATOR'S CERTIFICATION: I hereby declare the classified, packed, marked, and labeled, and are in all ment regulations, including applicable state regulations If I am a large quantity generator, I certify that I have a economically practicable and that I have selected the pfuture threat to human health and the environment; OR, best waste management method that is available to me	at the contents of this consignment are furespects in proper condition for transport. program in place to reduce the volume practicable method of treatment, storage if I am a small quantity generator, I have re	and toxicity of disposal	according to a x westa general currently avails faith effort to n	policable in sted to the lible to me v	temational degree I ha which minim	and national govern- type determined to be sizes the present and
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Austin, Texas 78711-3087



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P.O. Box 13087

Austin, Texas 78711-3087



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TEY' NATURAL RESOURCE C(.JERVATION COMMISSION

P.O. Box 13087

Austin, Texas 78711-3087



TCX-024.6833

Date

UNIFORM HAZARDOUS 1. Generator's US EPA ID WASTE MANIFEST T X 0 0 0 0 8 2 0		st 2. F	age 1 Info	rmation in	050-0039, expres 09/30 the shaded areas
3. Generator's Name and Mailing Address Southern Pacific Railroad	z.o.s.		tate Manifest		d by Federal law. Number
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Houston, TX 4. Generator's Phone (402) 271-5979		** 11.00°	31547		F
5. Transporter 1 Company Name 6. Pulido Trucking / 7.047.05 . N/A	US EPA IO Number		tate Transport		
7. Transporter 2 Company Name TRUCKING 8.	, US EPA ID Number	- Dal	ransporter's P	hone 71	3-864-6540
BRAZOS	A	ET	ansporter's Pl	er s IU	17.00
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11. A 11. US DOT Description (including Proper Shipping Name, Ha	zard Class, and IO	Containers	13. Total	14. Unit	Waste No
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TEXAS NATURAL RESOURCE CONSERVATION COMMISSION P.O. Box 13087 Austin, Texas 78711-3087

OF STREET

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Form approved DMR No. 2050-0039, expires 00/30:

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	5. Transporter 1 Company Name Pullido Trucking	6. US EPA ID					829
	7. Transporter 2 Company Name	8. US EPA ID					3-864-6540
				F. Transpo	orter's Phone	3	222-10-33-65-6
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	15. Special Handling Instructions and Additional In	formation .			•		
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Austin, Texas 78711-3087

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Form approved, OMB No. 2050-0039, expires 09/30

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	Houston, TX 4. Generator's Phone (402) 271-5979				te Generator's I		
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Austin, Texas 78711-3087

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Form approved. OMB No. 2050-0039, expires 09/3

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	GENERATOR'S CERTIFICATION: I hereby declare that the co- classified, packed, marked, and labeled, and are in all respects ment regulations, including applicable state regulations. If I am a large quantity generator, I certify that I have a program economically practicable and that I have selected the practical future threat to human health and the environment; OR, if I am a best waste management method that is available to me and that	ntents of this consignment are full in proper condition for transport to in place to reduce the volume as all method of treatment, storage, or small quantity operator. I have no	nd toxicity o	f waste g	to applicable i	degree I h	and national gove
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K 20	. Facility Owner or Operator: Certification of receipt of haz	ardous materials covered by	this manife	st exce	pt as noted in	item 19.	Date

Austin, Texas 78711-3087



Please print or type. (Form designed for use on elite (12 pitch) typewriter.) Form approved. CMB No. 2050-0039, expires 09/3 UNIFORM HAZARDOUS 1. Generator's US EPA ID No. Manifest 2. Page 1 **WASTE MANIFEST** Information in the shaded areas T X O O O O 8 2 O 2 5 6 Document No. is not required by Federal law 3. Generator's Name and Mailing Address Southern Pacific Railroad A. State Manifest Document Number WMA 0141 4910 Liberty Road Houston, TX 4. Generator's Phone (402 B. State Generator's ID 1 271-5979 31547 5. Transporter 1 Company Name 6. US EPA ID Number C.:State Transporter's ID 84829 Pulido Trucking · N/A DaTransporter's Phone .713-864-6540 7. Transporter 2 Company Name US EPA ID Number 8. E. State Transporter's ID E Transporter's Phone Designated Facility Name and Site Address G. State Facility's ID 10. US EPA ID Number Atascocita RDF 3623 Wilson Road H: Facility's Phone Humble, TX 77396 TX D.0 1 6 6.7 3 1.4 7 **281-446-6545** 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID 12. Containers Total Туре No. Quantity a. Wt/Vol Non-Regulated Material (soil) 01 DT 04003011 b. C. d. J. Additional Descriptions for Materials Listed Above K. Handling Codes for Wastes Listed Above Maste Management Profile Number 511481 15. Special Handling Instructions and Additional Information 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national govern-If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Printed/Typed Name Signature Month MING H. HONIG 17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Date Signature lovacio Mixack Month Day Year 18. Transporter 2 Acknowledgement of Receipt of Materials Date Printed/Typed Name Signature Month Day Year 19. Discrepancy Indication Space KG COH 002517 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

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Austin, Texas 78711-3087

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UNIFORM HAZARDOUS



1. Generator's US EPA ID No.

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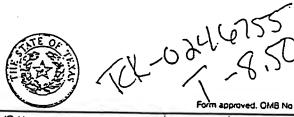


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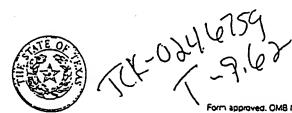
Austin, Texas 78711-3087



Date

Please print or type. (Form designed for use on elite (12 pitch) typewriter.) Form approved. OMB No. 2050-0039, expires 09/30/95 UNIFORM HAZARDOUS 1. Generator 3 US EPA ID No. Manifest 2. Page 1 Information in the shaded areas **WASTE MANIFEST** TX0000820266 Document No. is not required by Federal law. 3. Generator's Name and Mailing Address A. State Manifest Document Number Southern Pacific Railroad AMW 4910 Liberty Road B. State Generator's ID Houston, TX 4. Generator's Phone (402 : .) 271-5979 31547 5. Transporter 1 Company Name US EPA ID Number 6. C_State:Transporter's ID 84829 Pulido Trucking N/A Fransporter's Phone 713-864-6540 7. Transporter 2 Company 8. US EPA ID Number Tansporter's ID TO S Facsporter's Phone 14.25 9. Designated Facility Name Site Address G State Faculity's ID 10. US EPA ID Number Atascocita RDF 3623 Wilson Road H. Facility's Phone Humble, TX 77396 TX 0.0166.7314.7 281-446-6545 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID 12. Containers Waste No 13. Total Number) Unit The same of the same No. Type Quantity Mon-Regulated Material (soil) GEZERATOR 01 DT 04003011 Y 3. d. J. Additional Descriptions for Mat-K. Handling Codes for Wastes Listed Above Waste Management Provide Immber 1510/81 Special Handling Instructions and Additional Information 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment of accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transity according to applicable international and national government regulations, including applicable state regulations.

If am a large quantity generator, I certify that I have a program in place to reduce the volument of weste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, strategy or proposal currently available to me which minimizes the present and economically practicable and that I have selected the practicable method of treatment, storage of dispositions threat to human health and the environment; OR, if I am a small quantity generator. Have made a g isal currently available to me which minimizes the present and emade a good faith effort to minimize my waste generation and select the Dest waste management method that is available to me and that I can afford. 44 Printed/Typed Name Signature Day EDWIN HONIG 17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Month Day MENTOR 18. Transporter 2 Acknowledgement of Receipt of Materials Date Printed/Typed Name Signature Day Month 19. Discrepancy Indication Space KG COH 002521 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.



Date

Austin, Texas 78711-3087 Please print or type. (Form designed for use on elite (12 pitch) typewriter) Form approved, OMB No. 2050-0039, expires 09/30/5 **UNIFORM HAZARDOUS** 1. Generator's US EPA ID No. 2. Page 1 Manifest Information in the shaded areas **WASTE MANIFEST** T X O O O O 8 2 O 2 6 5 Document No. is not required by Federal law. 3. Generator's Name and Mailing Address A. State Manifest Document Number Southern Pacific Railroad WMA 01620 4910 Liberty Road B. State Generator's ID Houston, TX 4. Generator's Phone (402 31547) 271-5979 5. Transporter 1 Company Name C. State Transporter's ID: 84829 US EPA ID Number Pulido Trucking D. Transpoter's Phone -713-864-6540 H/A 7. Transporter 2 Company Name 8. E State-Improved S D 2 US EPA ID Number F. Transporters Phone 9. Designated Facility Name and Site G. State Facility's ID US EPA ID Number H1307 Atascocita RDF 3623 Wilson Road H: Facility's Phone Humble, TX 77396 T X D-0 1 6 6 7 11. USDOT Description (including Proper Shipping Name, Hazard Class, and ID Trace Duantity HM Number) Non-Regulated Material (soil) 01 深 CHRHRATOR b. A Additional Descriptions for Materials Listed Above Ke Handling Codes for Wastes Listed Above Waste Management Profile Number 511481 15. Special Handling Instructions and Additional Information 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurate described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by high was a property to a colicable international and national govern ment regulations, including applicable state regulations. If I am a large quantity generator, I certify that I have a program in place to induce the volume and toxicity of the present of the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal country 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 fault after 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 HOPIG 17. Transporter LACknowledgement of Receipt of Materials Date Printed/Typed Name, Month Day Signatus AVECIA 18. Transporter 2 Acknowledgement of Receipt of Materials Date Printed/Typed Name Signature Month Day 19. Discrepancy Indication Space KG COH 002522 20. Facility Owner or Operator: Certification of ruceipt of hazardous materials covered by this manifest except as noted in Item 19.

P.O. Box 13087

Austin, Texas 78711-3087

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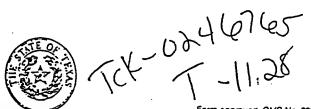
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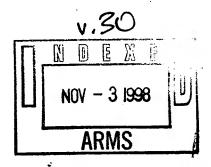
I Cinn Firm

Southern Pacific Transportation Company

Semiannual Monitoring Report: First Semiannual Event 1998 Houston Wood Preserving Works Houston, Texas

July 16, 1998

W.O. #422-09



Environmental Resources Management 16300 Katy Freeway, Suite 300 Houston, Texas 77094-1611 (281) 579-8999

SOUTHERN PACIFIC TRANSPO. CO.



ISW -000031547-RP VOL: 030 REPORT 1998 SEMIANNUAL MONITORING REPORT

KG COH 002529

UNION PACIFIC RAILROAD COMPANY

K. R. (KEN) WELCH Assistant Vice President nvironmental Management

Mailing Address: Room 930 1416 Dodge Street Omaha, Nebraska 68179 Fax No. (402) 271-4461

July 10, 1998

G. (GLENN) THOMAS **Director-Environmental Operations South** S. W. (STEVE) BERKI **Director-Environmental Operations-Central** L. A. (LANNY) SCHMID **Director-Environmental Operations-West** B. A. (BROCK) NELSON

RECEINER ENVIronmental Operations-North **Director-Environmental Site Remediation**

.HJL 2 3 1998

TNRCL-remmits SECTION I & HW DIVISION

Dr. Ata-ur-Rahman

Permits Section

Industrial & Hazardous Waste Division

Texas Natural Resource Conservation Commission

12100 Park 35 Circle - MC130

Austin, Texas 78753

Subject:

Transmittal, Semiannual Monitoring Report: First Semiannual Event 1998 -

January 1, 1998 through June 30, 1998; Houston Wood Preserving Works Site,

Houston, Texas

Dear Dr. Rahman:

Pursuant to Compliance Plan No. CP-50343, issued in conjunction with Post-Closure Care Permit No. HW-50343-000, please find enclosed two copies of the referenced report. As you are aware, we are actively pursuing access to off-site properties to complete the ongoing RFI/Extent of Contamination investigations. Based on our progress to date, we have made some aggressive assumptions regarding schedule, which are reflected in the updated Compliance Schedule herein. Upon obtaining access, we will notify the TNRCC of the actual dates for field activities. If you have any questions regarding the enclosed report, please call me at (402) 271-5979.

Sincerely,

UNION PACIFIC RAILROAD

Ed Honig, P.E.

Environmental Site Remediation Manager

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JUL 2 2 1998

REMEDIATION DIVISION Corrective Action Section

Enclosure

cc:

Ray Risner, TNRCC - Austin

Marsha Hill, TNRCC Region 12 - Houston

Allyn Davis, EPA Region VI - Dallas

Thomas Whitehurst, Environmental Resources Management

Southern Pacific Transportation Company

Semiannual Monitoring Report: First Semiannual Event 1998 Houston Wood Preserving Works Houston, Texas

July 16, 1998

W.O. #422-09

Hobin Mann

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Thomas D. Pacioni, P.G.

Thomas M. Whitehurst, P.G.

Principal

Environmental Resources Management 16300 Katy Freeway, Suite 300 Houston, Texas 77094-1611 (281) 579-8999

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- B FIELD PARAMETERS
- C LABORATORY ANALYTICAL REPORTS
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1.0 INTRODUCTION

1.1 BACKGROUND

On March 3 and 4, 1998, Environmental Resources Management (ERM) conducted ground water sampling activities at Southern Pacific Transportation Company's Houston Wood Preserving Works (HWPW) site, located at 4910 Liberty Road, Houston, Texas (Figure 1-1). This semiannual sampling event included the on-site wells and piezometers associated with a closed surface impoundment (TNRCC Permit Unit No. II.B.1) as described in RCRA Permit No. HW-50343-000 and associated Compliance Plan (CP-50343), both issued by the Texas Natural Resource Conservation Commission (TNRCC). The sampling event, analytical data, and this data evaluation report represent the first semiannual monitoring period for 1998 (i.e., January 1 through June 30) and fulfill the semiannual reporting requirements described in Compliance Plan Section VII.B.2.

1.2 REPORT CONTENT AND ORGANIZATION

Section VII.B.2 of the Compliance Plan (CP) requires that a specific list of items be included in each Semiannual Report. As such, each item listed below is addressed by number in Section 2.0 of this report. As of June 30, 1998, a recovery system had not been installed at this facility. Therefore, in the few instances where a provision refers to a recovery system (i.e., items 5, 7, and 11), a notation was made in the text and the items, as they relate to recovery wells, were not addressed in this report. The following items are required for the Semiannual Report, pursuant to CP Section VII.B.2:

- 1. A narrative summary of the evaluations made in accordance with CP Sections V, VI, and VII for the preceding six-month period. These periods shall be January 1 through June 30 and July 1 through December 31;
- 2. The results of the chemical analyses, submitted in a tabulated format in a form acceptable to the Executive Director, which clearly indicates each parameter that exceeds the Ground Water Protection Standard (GWPS). Copies of the original laboratory report for chemical analyses showing detection limits and quality control and quality assurance data shall be provided if requested by the Executive Director;
- 3. Tabulation of all water level elevations (relative to mean sea level), depth to water measurements, and total depth of well measurements collected since the data that was submitted in the previous semiannual report;
- 4. Potentiometric surface maps showing the elevation of the water table at the time of sampling;

- 5. If a recovery system is installed, potentiometric surface maps showing delineation of the radius of influence, minimum and maximum gradient within the hydrologically influenced area, and the direction of ground-water flow gradients outside the radius of influence;
- 6. A notation of the presence or absence of NAPLs, both light and dense phases, in each well during each sampling event since the last event covered in the previous semiannual report and tabulation of depth and thickness of NAPLs, if detected;
- 7. If a recovery system is installed, monthly tabulations of quantities of recovered ground-water and NAPLs (if encountered), and graphs of weekly recorded flow rates versus time for the recovery wells during each quarter;
- 8. Tabulation of all data evaluation results pursuant to Section VI.D and status of each well listed on CP Table III with regard to compliance with the corrective action objectives and compliance with the Ground-water Protection Standards;
- 9. Maps of the contaminated area depicting concentrations of naphthalene, acenaphthene, and total benzene, toluene, ethylbenzene, and xylenes (BTEX) as isopleth contours;
- 10. An updated schedule summary as required by Section XI.A;
- 11. Summary of any changes made to the monitoring/corrective action program and a summary of recovery well inspections, repairs, and any operational difficulties:
- 12. Recommendation for any changes; and,
- 13. Any other items requested by the Executive Director.

2.0 FIRST SEMIANNUAL GROUND WATER SAMPLING EVENT

This section contains a discussion of each of the Semiannual Report items required by CP Section VII.B.2.

2.1 NARRATIVE SUMMARY OF FIRST SEMIANNUAL ACTIVITIES

CP Section VII.B.2.a requires a narrative summary of evaluations completed in accordance with CP Sections V, VI, and VII. Section V relates to the Corrective Action Program in place for the permitted unit. Section VI relates to the Ground Water Monitoring Program designed to evaluate the effectiveness of the Corrective Action Program. Section VII includes provisions for amending the Corrective Action Program and/or Compliance Plan.

2.1.1 Corrective Action Program

Existing wells were sampled to evaluate the extent of affected ground water in the A-Transmissive Zone (A-TZ) and the B-Transmissive Zone (B-TZ). The definitions of the A-TZ and B-TZ are consistent with the UTZ and STZ, respectively, as defined in CP Provision I.A.

- A-TZ refers to the first sand unit encountered at approximately 35 feet above mean sea level (msl), averaging 6 to 8 feet in thickness.
- B-TZ refers to the second sand unit encountered at approximately 15 feet above msl, averaging 8 to 10 feet in thickness.

Existing monitoring wells in the A-TZ, designated by function in CP Table III (Appendix A), include the Corrective Action Observation (CAO) wells MW-04, MW-05, MW-07, MW-08, and MW-09, and the Point of Compliance (POC) wells MW-01A, MW-02, MW-03, MW-10A, and MW-11A. Existing monitoring wells in the B-TZ include the POC wells MW-10B and MW-11B, and the POC piezometers P-10, P-11, and P-12.

2.1.2 Ground Water Monitoring

ERM personnel completed monitoring activities at the site on March 3 and 4, 1998. The 15 A-TZ and B-TZ wells and piezometers listed in Section 2.1.1 were located and inspected in preparation for the sampling event. Ground water sampling was performed using procedures outlined in a U.S. EPA document titled Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures (EPA/540/S-95/504) published in April 1996. Purging and sampling were performed using a low-flow pump which drew a sample directly from the screened interval of the well.

Dedicated polyethylene tubing placed in the well during the previous sampling event was used for this sampling event. A Master-Flex peristaltic pump was placed next to each well during sampling. Using a one-foot section of disposable silicon tubing placed around the pump head and attached to the dedicated polyethylene tubing, ground water was pumped from the screened interval of the well at a flow rate of approximately 0.5 L/min. A one-liter Pyrex measuring cup was used to collect purge water in one-liter increments to evaluate field parameters, including temperature, pH, specific conductivity, and turbidity. When three successive readings indicated that the field parameters had stabilized, the well was sampled. A compilation of recorded field parameters is included in Appendix B.

For each well, one 250-mL. polyethylene bottle, two 40-mL glass volatile organic compound bottles, and two 1000-mL amber glass semivolatile organic compounds bottles were filled directly from the sample tubing. The bottles, which had been preserved previously by the lab, were sealed and packed in coolers with sufficient ice to maintain a sample temperature of approximately 4° C. The coolers were delivered to Pace Analytical Services, Inc. of Houston, Texas for analysis. Chain-of-Custody (COC) forms were completed and kept with their respective samples. Copies of the analytical data and COCs are included in Appendix C.

2.2 ANALYTICAL RESULTS

The results of the chemical analyses performed on the A-TZ and B-TZ ground water samples collected during the first semiannual sampling event of 1998 are summarized in Tables 2-1 and 2-2, respectively. Those compounds reported by the laboratory to be above the GWPS are indicated in bold italics on the tables. The CP sets the GWPS at the practical quantitation limit (PQL) for each of the compounds analyzed.

2.3 WATER LEVEL AND TOTAL DEPTH MEASUREMENT

Because low-flow sampling procedures were utilized for this sampling event, it was important to reduce disruption of the water column to the extent practical prior to sampling. To accomplish this, water levels were measured on March 3 and 4, 1998, prior to sampling, using a Solinst Model 101 electronic water level meter capable of producing measurements to a depth of 100 feet with an accuracy of 0.01 feet. Since the meter came into contact with only the upper surface of the water column, disruption of the water column was reduced. No non-aqueous phase liquid (NAPL) was noted on the probe at any of the wells measured. Total depth measurements were collected following ground water sampling in accordance with the methodology described in EPA's low-flow guidance (U.S. EPA, April 1996) which suggests that a probe be lowered gently through the water column to the bottom of the well following sample collection.

Table 2-3 summarizes the results of the depth-to-water and total well depth measurements.

2.4 POTENTIOMETRIC SURFACE MAPS

The ground water elevation data described in Section 2.3 were used to create potentiometric surface maps of the A-TZ and B-TZ. The equipotential lines were generated by applying a linear Kriging algorithm to the data. Figures 2-1 and 2-2 show potentiometric surface maps of the A-TZ and B-TZ, respectively.

2.5 POTENTIOMETRIC SURFACE MAPS FOR RECOVERY SYSTEM

As of June 30, 1998, no recovery system had been installed at the closed surface impoundment. Therefore, this item is not addressed herein.

2.6 NON-AQUEOUS PHASE LIQUIDS

The wells and piezometers were examined for the presence of light NAPLs before low-flow sampling and dense NAPLs after low-flow sampling was completed, in order to minimize disruption of the water column prior to sampling. The low-flow sampling method resulted in little or no drawdown. Accordingly, dense NAPL measurements, if present, would not have been significantly affected by prior ground water sample collection. An MMC Model D-240 oil/water interface probe was used to measure for light and heavy NAPLs. No NAPLs were detected in any of the wells sampled during this semiannual event.

2.7 NAPL RECOVERIES

As of June 30, 1998, no recovery system had been installed at the closed surface impoundment. Therefore, this item is not addressed herein.

2.8 ANALYTICAL DATA EVALUATION

CP Section VI.D describes two methods which may be used to determine the compliance status of a given well. The analytical results may be either directly compared to the GWPS (CP Table I; included in Appendix A herein), or statistically compared to the GWPS using the 99% significance level of the t-distribution. Table 2-4 shows the results of a direct comparison of data from the second semiannual sampling event to the GWPS. Wells and piezometers were considered to be compliant if each of the constituents listed in CP Table I was reported at a concentration less than or equal to the Concentration Limit (i.e., the GWPS). Conversely, wells and piezometers were considered non-compliant if one or more constituents were reported at concentrations above the Concentration Limit.

2.9 BTEX, ACENAPHTHENE, AND NAPHTHALENE ISOPLETHS

The concentration contours of these constituents were prepared using the data presented in Table 2-3. The contours were generated using a logarithmic Kriging method. Locations with reported non-detects were assigned a value equal to one-half of the reported detection limit.

A-TZ and B-TZ BTEX concentrations measured during the first semiannual sampling event of 1998 are illustrated in Figures 2-3 and 2-4, respectively. Similarly, acenaphthene and naphthalene isopleths are provided in Figures 2-5 through 2-8.

2.10 UPDATED COMPLIANCE SCHEDULE

An updated compliance schedule is included as Appendix D of this report.

2.11 SUMMARY OF CHANGES MADE TO THE MONITORING/CORRECTIVE ACTION PROGRAM AND SUMMARY OF RECOVERY WELL INSPECTIONS AND MAINTENANCE

A change was made to the NAPL and total well depth measurement protocol. Instead of obtaining all measurements before sampling, NAPL and depth to water were measured prior to low-flow sampling and DNAPL and total well depth were measured after sampling to reduce disturbance of the water column. No recovery wells or ground water recovery system is present on site. Accordingly, there were no recovery well inspections, repairs, or operations conducted. However, the POC and CAO wells were inspected twice during the semiannual monitoring period. Based on the results of the inspections, no repairs or corrective actions were warranted. A summary of the well inspections will be included in the 1998 Annual Report.

2.12 RECOMMENDATIONS FOR CHANGES

Beginning with the second 1998 ground water sampling event, ground water samples required pursuant to the Compliance Plan will be collected utilizing dedicated polytetrafluoroethylene (PTFE) tubing. The PTFE tubing will be dedicated in each well, and will be affixed to disposable silicon tubing at the surface in order to collect samples using low-flow pumping.

In addition, as described in a letter to the TNRCC dated June 1, 1998, it is proposed that the following sequence of activities be continued in the second 1998 sampling event.

- measure for light non-aqueous phase liquid (LNAPL) measurements;
- complete purging and sampling; and
- measure for DNAPL and total well depth.

6

2.13 OTHER REQUESTED ITEMS

To date, no other items have been requested by the Executive Director.

Tables

Environmental Resources Management 16300 Katy Freeway, Suite 300 Houston, Texas 77094-1611 (281) 579-8999

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TABLE 2-1
Summary of Analytical Results for the A-Transmissive Zone (A-TZ)

First Semiannual Sampling Event, 1998 Houston Wood Preserving Works Houston, Texas

Analyte	PQL & GWPS	MW-01A 3-3-98	MW-02 3-3-98	MW-03 3-3-98	MW-04 3-3-98	MW-05 3-4-98	MW-07 3-4-98	MW-08 3-4-98	MW-09 3-4-98	MW-10A 3-3-98	MW-11A 3-3-98
Benzene	0.005	0.011	ND	ND							
Chlorobenzene	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	0.005	0.010	ND	ND							
Toluene	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	0.005	0.024	ND	ND	ND	0.007	ND	ND	ND	ND	0.006
Acenaphthene	0.010	0.094	0.026	0.060	ND	ND	ND	0.032	ND	ND	0.063
Acenaphthylene	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	0.010	ND	ND	ND	ND	ND.	ND	ND	ND	ND	ND
bis(2-Chloroethoxy)methane	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chrysene	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND ND
Dibenzofuran	0.010	0.059	0.020	0.044	ND	ND	ND	0.022	ND	ND	0.017
Di-n-butylphthalate	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2,4-Dimethylphenol	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND ND
4,6-Dinitro-o-cresol	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2,6-Dinitrotoluene	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.023 ND
1,2-Diphenylhydrazine	0.010	ND.	ND								
bis(2-Ethylhexyl)phthalate	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND ND
Fluoranthene	0.010	ND.	ND	ND							
Fluorene	0.010	0.068	0.020	0.052	ND	ND	ND	0.023	ND	ND	0.023
2-Methylnaphthalene	0.010	0.041	ND	ND	ND	ND	ND	0.016	ND	ND	ND
Naphthalene	0.010	0.320	0.031	ND	ND	ND	ND	0.300	ND	ND	ND
Nitrobenzene	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Nitrophenol	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	0.010	0.028	ND	ND							
Phenol	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

NOTES:

¹⁾ All values reported in mg/L. ND - Not detected at the Practical Quantitation Limit (PQL).

²⁾ PQL - Practical Quantitation Limit as defined on Table I of the Compliance Plan, and determined by the analytical methods of the EPA Publication SW-846, Test Methods for Evaluating Solid Waste, 3rd ed., November 1986, and as listed in the July 8, 1987 edition of the Federal Register and later editions. The PQL is the Ground Water Protection Standard (GWPS).

³⁾ Bold-italic indicates values reported above the Ground Water Protection Standard.

TABLE 2-2
Summary of Analytical Results for the B-Transmissive Zone (B-TZ)

First Semiannual Sampling Event, 1998 Houston Wood Preserving Works Houston, Texas

Analyte	PQL & GWPS	MW-10B 3-3-98	MW-11B 3-3-98	P-10 3-4-98	P-11 3-4-98	P-12 3-4-98
Benzene	0.005	ND	ND	ND	ND	ND
Chlorobenzene	0.005	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.005	ND	ND	ND	ND	ND
Methylene chloride	0.010	ND	ND	ND	ND	ND
Ethylbenzene	0.005	ND	ND	ND	ND	ND
Toluene	0.005	ND	ND	ND.	ND	ND
Xylene (total)	0.005	ND	ND	ND	ND	ND
Acenaphthene	0.010	0.018	ND F	0.089	0.023	ND
Acenaphthylene	0.010	ND	ND	ND	ND	ND
Anthracene	0.010	ND	ND	ND	ND	ND
Benzo(a)anthracene	0.010	ND	ND	ND	ND	ND
Benzo(a)pyrene	0.010	ND	ND	ND	ND	ND
bis(2-Chloroethoxy)methane	0.010	ND	ND	ND	ND	ND
2-Chloronaphthalene	0.010	ND	ND	ND	ND	ND
Chrysene	0.010	ND	ND	ND	ND	ND
Dibenzofuran	0.010	ND	ND	0.038	ND	ND
Di-n-butylphthalate	0.010	ND	ND	ND	ND	ND
2,4-Dimethylphenol	0.010	ND	ND	ND	ND	ND
4,6-Dinitro-o-cresol	0.050	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	0.010	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	0.010	ND	ND	ND	ND	ND
1,2-Diphenylhydrazine	0.010	ND	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate	0.010	ND	ND	ND	ND	ND.
Fluoranthene	0.010	ND	ND	ND	ND	ND
Fluorene	, 0.010	0.012	ND	0.060	0.014	ND
2-Methylnaphthalene	0.010	ND	ND	0.018	ND	ND
Naphthalene	0.010	ND	ND	5.800	ND	ND
Nitrobenzene	0.010	ND	ND	ND	ND	ND
p-Nitrophenol	0.050	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	0.010	ND	ND	ND	ND	ND
Pentachlorophenol	0.050	ND	ND	ND	ND	ND
Phenanthrene	0.010	ND	ND	0.028	ND	ND
Phenoi	0.010	ND	ND	ND	ND	ND
Pyrene	0.010	ND	ND	ND	ND	ND

NOTES:

- 1) All values reported in mg/L. ND Not detected at the Practical Quantitation Limit (PQL).
- 2) PQL Practical Quantitation Limit as defined on Table I of the Compliance Plan, and determined by the analytical methods of the EPA Publication SW-846, Test Methods for Evaluating Solid Waste, 3rd ed., November 1986, and as listed in the July 8, 1987 edition of the Federal Register and later editions. The PQL is the Ground Water Protection Standard (GWPS).
- 3) Bold-italic indicates values reported above the Ground Water Protection Standard.

TABLE 2-3 Water Level and Total Depth of Well Measurements

First Semiannual Sampling Event, 1998 Houston Wood Preserving Works Houston, Texas

Well ID	Top of Casing Elevation (msl)	Depth to Water (ft TOC)	Water Surface Elevation (msl)	Total Depth of Well as Measured (ft TOC)	Total Depth as Logged (ft TOC) *
MW-01A	47.95'	2.87'	45.08'	19.65'	20.20'
MW-02	48.03'	2.88'	45.15'	18.52'	20.30'
MW-03	48.55'	3.37'	45.18'	19.95'	20.90'
MW-04	49.85'	5.00'	44.85'	21.75'	23.40'
MW-05	49.35'	4.54'	44.81'	27.42'	28.30'
MW-07	48.86'	4.14'	44.72'	24.76'	N/A
80-WM	49.37'	4.38'	44.99'	25.06'	26.80'
MW-09	49.29'	4.15'	45.14'	25.40'	26.80'
MW-10A	49.90'	4.87'	45.03'	25.60'	25.90'
MW-11A	50.04'	5.16'	44.88'	24.01'	24.40'

Well ID	Top of Casing Elevation (msl)	Depth to Water (ft TOC)	Water Surface Elevation (msl)	Total Depth of Well as (ft TOC) Measured	Total Depth as Logged (ft TOC) *
MW-10B	49.97'	5.00'	44.97'	46.52'	48.80'
MW-11B	50.19'	5.35'	44.84'	46.73'	46.80'
P-10	47.72'	N/A	N/A	N/A	N/A
P-11	49.02'	4.08'	44.94'	42.79'	51.80'
P-12	48.82'	3.78'	45.04'	42.84'	51.70'

NOTES:

- msl feet above mean sea level
 ft TOC-feet below the Top Of (the well) Casing
- 3) * Logged during well installation
- 4) N/A Information not available

TABLE 2-4

Compliance Status of Wells and Piezometers

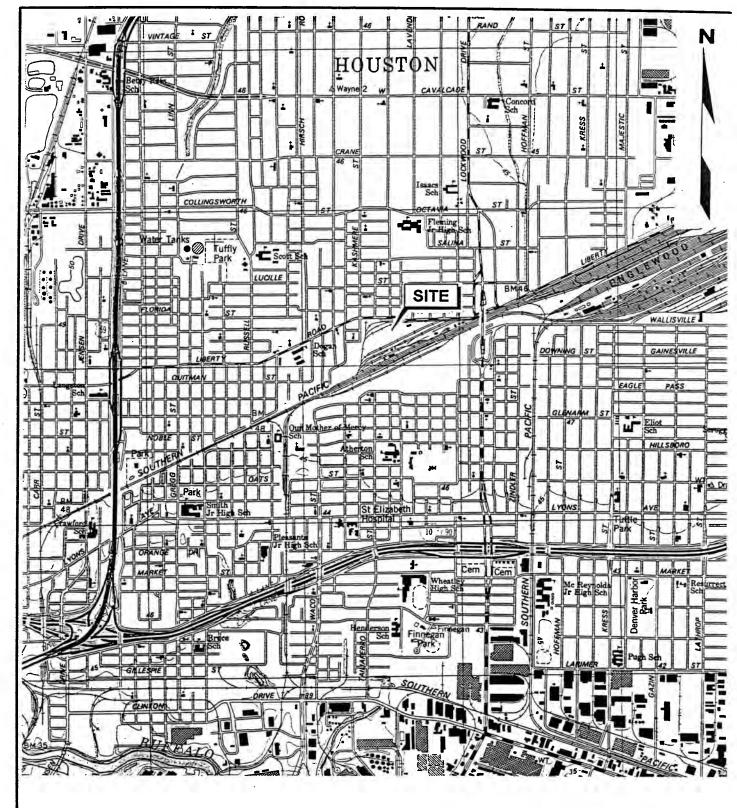
First Semiannual Sampling Event, 1998 Houston Wood Preserving Works Houston, Texas

A-TZ Monitoring Location	Compliance Status
MW-01A	Non-Compliant
MW-02	Non-Compliant
MW-03	Non-Compliant
MW-04	Compliant
MW-05	Non-Compliant
MW-07	Compliant
MW-08	Non-Compliant
MW-09	Compliant
MW-10A	Compliant
MW-11A	Non-Compliant

B-TZ Monitoring Location	Compliance Status
MW-10B	Non-Compliant
MW-11B	Compliant
P-10	Non-Compliant
P-11	Non-Compliant
P-12	Compliant

Figures

Environmental Resources Management 16300 Katy Freeway, Suite 300 Houston, Texas 77094-1611 (281) 579-8999



Source: U.S.G.S. Quadrangle Settegast, Texas

1982

7.5 Minute Series (Topographic)

2000 4000 SCALE FEET

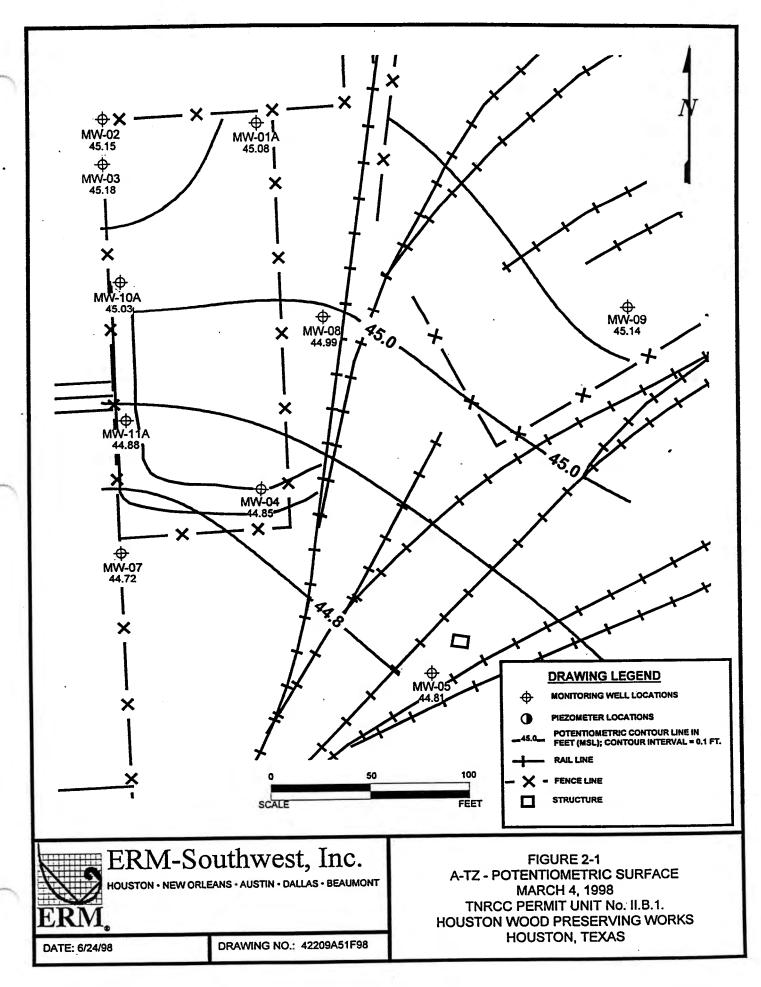


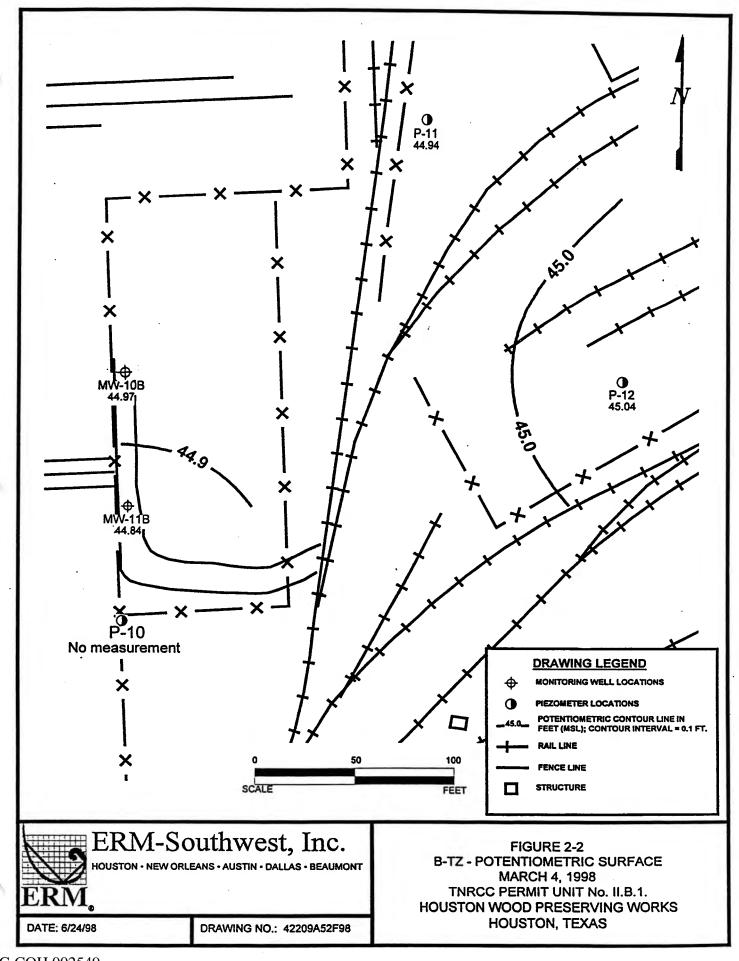
ERM-Southwest, Inc. HOUSTON • NEW ORLEANS • AUSTIN • DALLAS • BEAUMONT

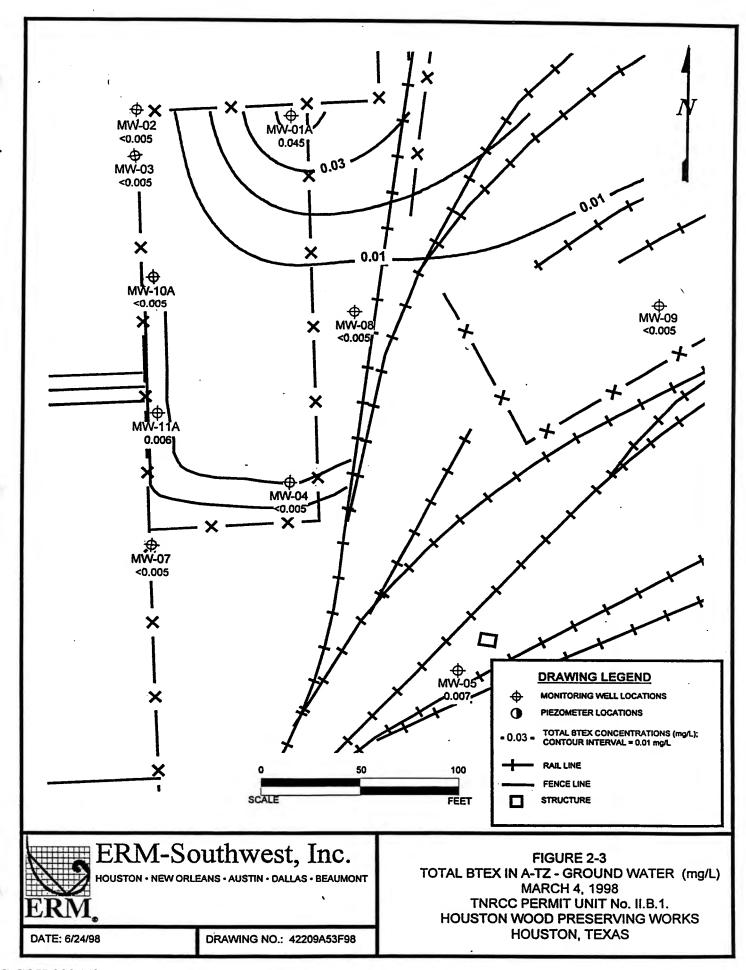
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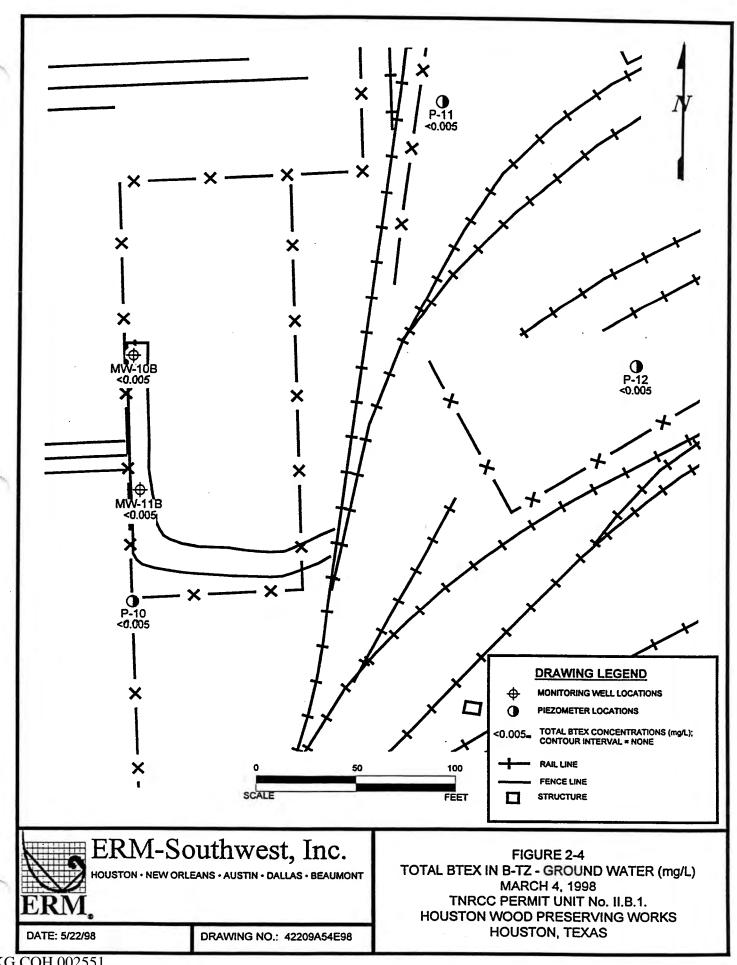
W.O.NO.: 42209A17

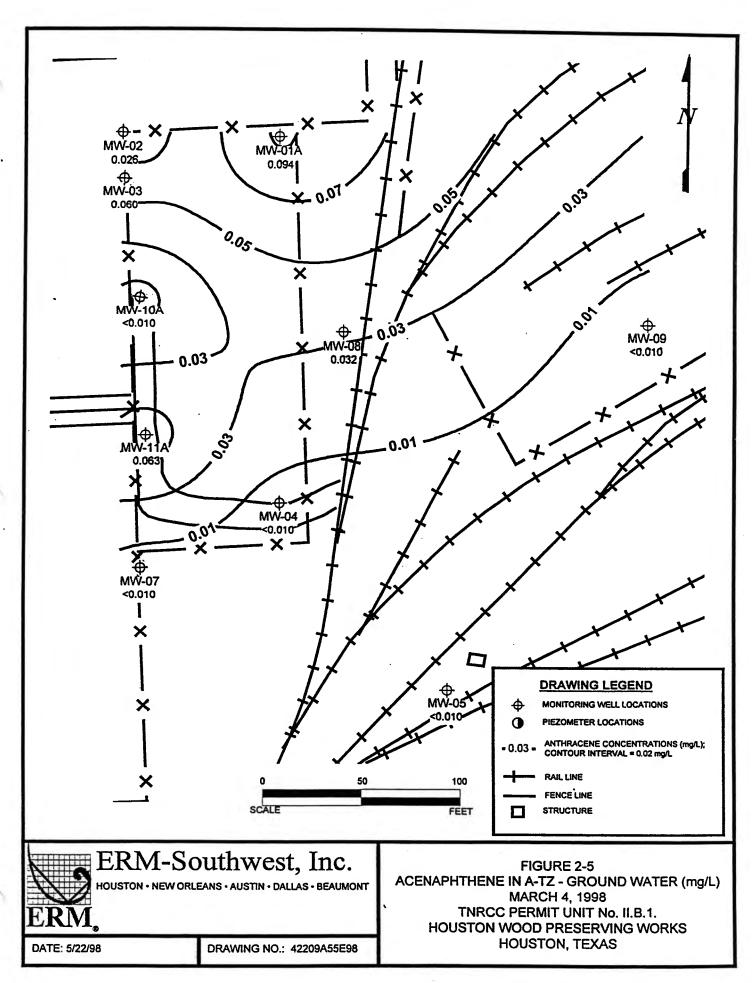
FIGURE 1-1 SITE LOCATION MAP Houston Wood Preserving Works Houston, Texas

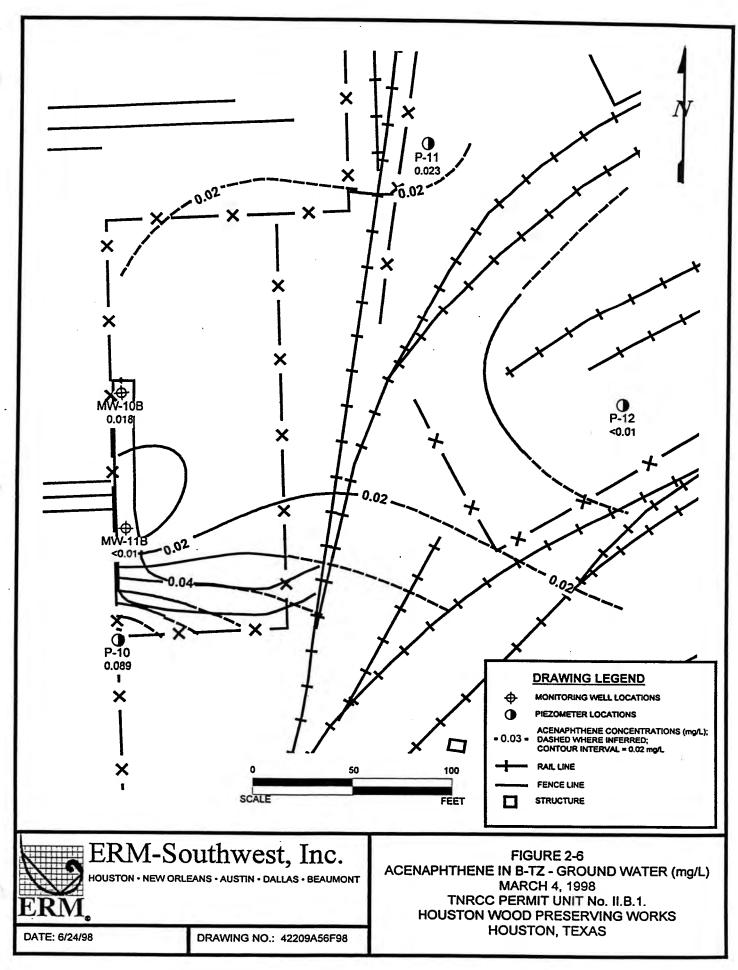


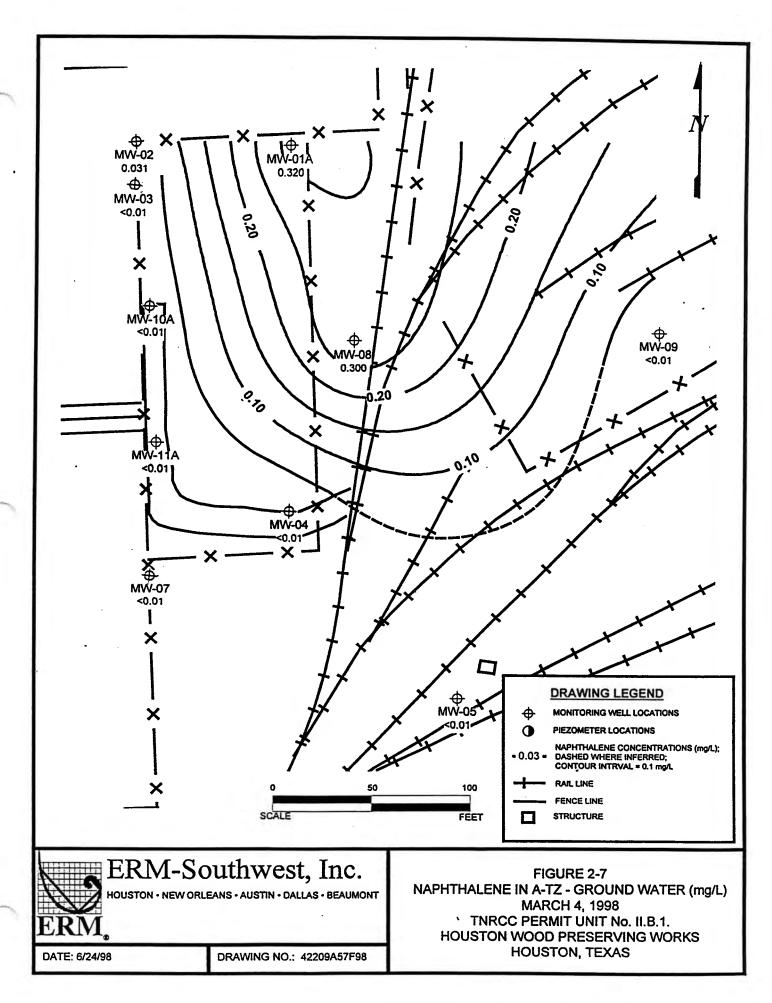


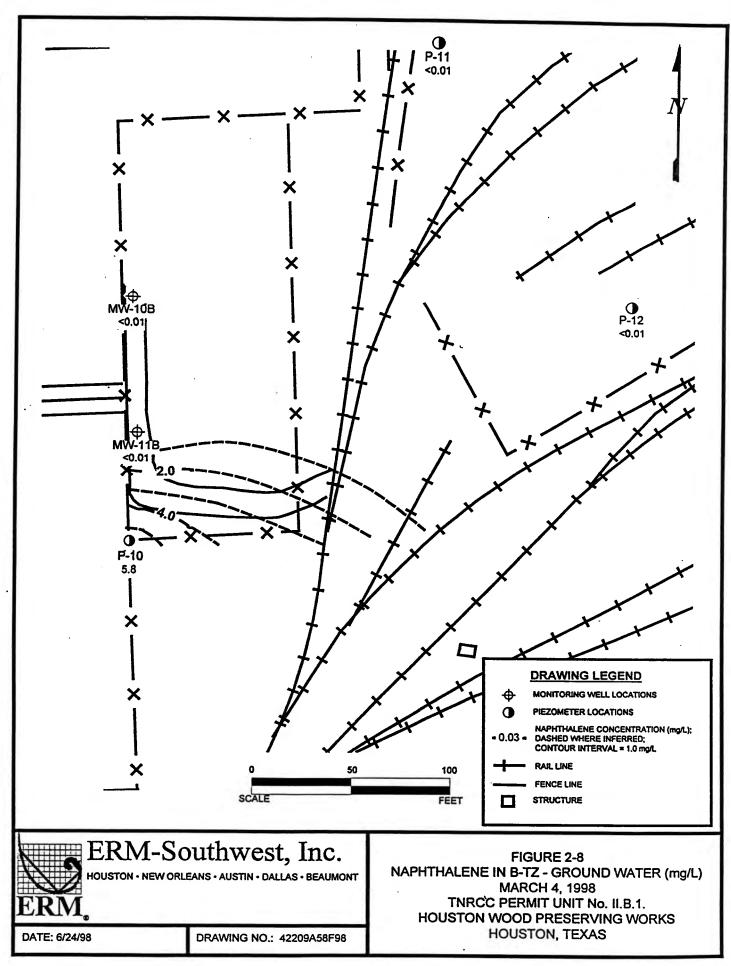












Compliance Plan Tables Appendix A

July 16, 1998 W.O. #422-09

Environmental Resources Management 16300 Katy Freeway, Suite 300 Houston, Texas, 77094-1611 (281) 579-8999

KG COH 002556

TABLE I

Table of Hazardous and Solid Waste Constituents and Concentration Limits for Ground-water Protection Standard

COLUMN A	COLUMN B
Hazardous Constituents	Concentration Limits (mg/l)
Acenaphthene	ND (0.010)
Acenaphthylene	ND (0.010)
Anthracene	ND (0.010)
Benzene	ND (0.005)
Benzo(a)anthracene	ND (0.010)
Benzo(a)pyrene	ND (0.010)
Bis(2-ethylhexyl)phthalate	ND (0.010)
Bis(2-chlororethoxy)methane	ND (0.010)
Chlorobenzene	ND (0.005)
2-Chloronaphthalene	ND (0.010)
Chrysene	ND (0.010)
Dibenzofuran	ND (0.010)
1,2-Dichlorethane	ND (0.005)
Dichloromethane *	ND (0.005)
2,4-Dimethylphenol	ND (0.010)
Di-n-butyl phthalate	ND (0.010)
4,6-Dinitro-o-cresol	ND (0.050)
2.4-Dinitrotoluene	ND (0.010)
2,6-Dinitrotoluene	ND (0.010)
1,2-Diphenylhydrazine	ND (0.010)
Ethylbenzene	ND (0.005)
Fluoranthene	ND (0.010)
Fluorene	ND (0.010)
Methylene chloride	ND (0.010)
2-Methylnaphthalene	ND (0.010)
Naphthalene	ND (0.010)
Nitrobenzene	ND (0.010)
4-Nitrophenol	ND (0.050)
N-Nitrosodiphenylamine	ND (0.010)
Pentachlorophenol	ND (0.050)
Phenanthrene	ND (0.010)
Phenol	ND (0.010)
Pyrene	ND (0.010)
Toluene	ND (0.005)
Xylenes	ND (0.005)

NOTES:

- N.D. Non-detectable at Practical Quantitation Limit as determined by the analytical methods of the United States Environmental Protection Agency publication SW-846 Test Methods for Evaluating Solid Waste, Third Edition, November 1986, (USEPA SW-846) and as listed in the July 8, 1987 edition of the Federal Register and later editions. Practical Quantitation Limit (PQL) is indicated in parentheses. Practical Quantitation Limits are the lowest concentrations of analytes in ground-water that can be reliably determined within specified limits of precision and accuracy by the indicated methods under routine laboratory operating conditions.
 - Because Methylene Chloride is listed herein with a PQL of 0.010 mg/L, and is the same compound as Dichloromethane, comparisons for compliance will be made at 0.010 mg/L.

TABLE III

Designation of Wells by Function

1. POINT OF COMPLIANCE WELLS SAMPLING FREQUENCY

A. A-TZ or Upper Transmissive Zone

MW-1		Semiannual
MW-2		Semiannual
MW-3		Semiannual
MW-10		Semiannual
MW-11		Semiannual

BACKGROUND WELLS

As proposed in the Compliance Plan Application, background values of the tested constituents will be assumed to be the Practical Quantitation Limit (PQL), and therefore, negate the need for background wells, unless this Compliance Plan is modified under Section VI.A.

3. CORRECTIVE ACTION O	SERVATION WELLS SAMPLING
	FREQUENCY

A. On-site A-TZ or Uppermost Transmissive Zone

MW-4		Semiannual
MW-5		Semiannual
MW-7		Semiannual
MW-8		Semiannual
MW-9	1	Semiannual

NOTE:

This table has been modified from CP-50343.

Field Parameters Appendix B

July 16, 1998 W.O. #422-09

Environmental Resources Management 16300 Katy Freeway, Suite 300 Houston, Texas 77094-161 fe (281) 579-8999.

KG COH 002559

TABLE B-1

Ground Water Sampling Field Parameters

First Semiannual Sampling Event, 1998 Houston Wood Preserving Works Houston, Texass

3/4/98 3/4/98 1021 21.9 6.80 865 1.86	
MW-08 3/4/98 1327 21.1 6.85 607 1.04	P-12 3/4/98 1113 22.8 6.53 1501 0.33
MW-07 3/4/98 0807 20.0 6.90 1028 2.78	P-11 3/4/98 1423 22.5 6.46 1432
MW-05 3/4/98 1218 21.5 6.79 784 0.45	P-10 3/4/98 0857 21.3 6.65 1282 8.62
MW-04 3/3/98 1125 21.0 6.60 930 0.09	MW-11B 3/3/98 1254 ,21.7 6.90 1230
MW-03 3/3/98 1615 19.6 6.71 1440 2.01	3/3/98 3/3/98 1208 20.8 6.80 1410
MW-02 3/3/98 1550 19.4 6.70 590 6.40	3/3/98 3/3/98 1410 21.0 6.80 1410
MW-01A 3/3/98 1504 20.4 6.72 1620	MW-10A 3/3/98 1338 20.1 6.80 1640
Well ID Date Sampled Time Sampled (hrs) Temperature (°C) pH (Standard Units) Specific Conductivity (uS) Turbidity (ntu)	Well ID Date Sampled Time Sampled (hrs) Temperature (°C) pH (Standard Units) Specific Conductivity (uS) Turbidity (ntu)

Laboratory Analytical Reports Appendix C

July 16; 1998 W.O. #422-09

Environmental Resources Management 16300 Katy Freeway, Suite 300 Houston, Texas 77094-1611 (281) 579-8999

April 01, 1998

Mr. Tom Pacioni ERM-Southwest, Inc. 16300 Katy Frwy. Suite 300 Houston, TX 77094

Pace Project Number: 851674

Client Project ID: HWPW

Dear Mr. Pacioni:

Enclosed are the results of analyses for sample(s) received by the laboratory on March 5, 1998. If you have any questions concerning this report, please feel free to contact me.

Sincerely.

Elessa Sommers Project Manager

Enclosures 1

Tel: 281-488-1810 Fax: 281-488-4661

DATE: 04/01/98

PAGE: 1

ERM-Southwest, Inc. 16300 Katy Frwy, Suite 300 Houston, TX 77094 Pace Project Number: 851674 Client Project ID: HWPW

Attn: Mr. Tom Pacioni Phone: 281-579-8999

Solid results are reported on a wet weight basis

ace Sample No: 85173763 lient Sample ID: HWPW-MW-014	N-1SA98		Date Collect Date Recei		3/03/98 3/05/98	
arameters	Results	Units	PRL	Analyzed	Analy	st CAS# Footnotes
	•••••	•••••	•••••	•••••	•••••	••••••
C/MS VOA						
GC/MS VOCs. RCRA	Method	I: EPA 8260			Prep	Method: EPA 8260
Methylene Chloride	ND	ug/L	5	03/17/98	•	75-09-2
Benzene	11	ug/L	5	03/17/98		71-43-2
1.2-Dichloroethane	ND .	ug/L	5	03/17/98	NZAI	107-06-2
Toluene	ND	ug/L	5	03/17/98	NZAI	108-88-3
Chlorobenzene	ND	ug/L	5	03/17/98	NZAI	108-90-7
Ethylbenzene	9.6	ug/L	5	03/17/98	NZAI	100-41-4
Xylene (Total)	24	ug/L	5	03/17/98	NZAI	1330-20-7
Dibromofluoromethane (S)	97	X		03/17/98	NZAI	1868-53-7
Toluene-d8 (S)	98	*		03/17/98	NZAI	2037-26-5
4-Bromofluorobenzene (S)	95	x		03/17/98	NZAI	460-00-4
C/MS Semi-VOA Semivolatile Organics, Water	Method	: EPA 8270			Oman I	dathad. CDA 2520
Phenol	ND	ug/L	10	03/16/98	VHEB	1ethod: EPA 3520 108-95-2
Nitrobenzene	ND	ug/L	10	03/16/98	VHEB	98-95-3
2.4-Dimethylphenol	ND	ug/L	10	03/16/98	VHEB	105-67-9
• •	ND	_	10		VHEB	111-91-1
Dis(2-Chioroethoxy)methane		(R)/1		N3/16/02		
bis(2-Chloroethoxy)methane Naphthalene		ug/L ua/L		03/16/98		
Naphthalene	320	ug/L	20	03/16/98	VHEB	91-20-3
		_		03/16/98 03/16/98	VHEB VHEB	91-20-3 91-57-6
Naphthalene 2-Methylnaphthalene	320 41	ug/L ug/L ug/L	20 10	03/16/98	VHEB	91-20-3 91-57-6 91-58-7
Naphthalene 2-Methylnaphthalene 2-Chloronaphthalene	320 41 ND	ug/L ug/L	20 10 10	03/16/98 03/16/98 03/16/98	VHEB VHEB VHEB	91-20-3 91-57-6
Naphthalene 2-Methylnaphthalene 2-Chloronaphthalene Acenaphthylene 2,6-Dinitrotoluene	320 41 ND ND	ug/L ug/L ug/L ug/L ug/L	20 10 10 10 10	03/16/98 03/16/98 03/16/98 03/16/98 03/16/98	VHEB VHEB VHEB VHEB VHEB	91-20-3 91-57-6 91-58-7 208-96-8 606-20-2
Naphthalene 2-Methylnaphthalene 2-Chloronaphthalene Acenaphthylene	320 41 ND ND ND	ug/L ug/L ug/L ug/L ug/L ug/L	20 10 10 10 10 10	03/16/98 03/16/98 03/16/98 03/16/98	VHEB VHEB VHEB VHEB VHEB	91-20-3 91-57-6 91-58-7 208-96-8 606-20-2 83-32-9
Naphthalene 2-Methylnaphthalene 2-Chloronaphthalene Acenaphthylene 2,6-Dinitrotoluene Acenaphthene	320 41 ND ND ND 94	ug/L ug/L ug/L ug/L ug/L	20 10 10 10 10	03/16/98 03/16/98 03/16/98 03/16/98 03/16/98	VHEB VHEB VHEB VHEB VHEB	91-20-3 91-57-6 91-58-7 208-96-8 606-20-2

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,

DATE: 04/01/98

PAGE: 2

Pace Sample No:	85173763			Date Collec	ted:	03/03/98		Matrix:	Water
Client Sample ID:	HWPW-MW-01A-1	SA98		Date Recei	ved:	03/05/98			
Parameters	R	esults	Units	PRL	Anal yze	d Analys	t CAS#	Footnot	tes
***************************************		•••••	•••••	•••••		• ••••	•••••		
2,4-Dinitrotoluene	e N	D	ug/L	10	03/16/9	8 VHEB	121-14-2		
Fluorene	6	8	ug/L	10	03/16/9	8 VHEB	86-73-7		
4.6-Dinitro-2-meth	ylphenol - N	D	ug/L	50	03/16/98	8 VHEB	534-52-1		
N-Nitrosodiphenyla	mine N	D	ug/L	10	03/16/98	8 VHEB	86-30-6		
Pentachlorophenol	N	D	ug/L	50	03/16/98	8 VHEB	87-86-5		
Phenanthrene	2	8	ug/L	10	03/16/98	B VHEB	85-01-8		
Anthracene	N	D	ug/L	10	03/16/98	B VHEB	120-12-7		
Di-n-butylphthalat	e N	D	ug/L	10	03/16/98	3 VHEB	84-74-2		
Fluoranthene	N	D	ug/L	10	03/16/98	3 VHEB	206-44-0		
Pyrene	N	D	ug/L	10	03/16/98	3 VHEB	129-00-0		
Benzo(a)anthracene	. Ni	D	ug/L	10	03/16/98	3 VHEB	56-55-3		
Chrysene	N	0	ug/L	10	03/16/98	3 VHEB	218-01-9		
bis(2-Ethylhexyl)p	hthalate N	0	ug/L	10	03/16/98	3 VHEB	117-81-7		
Benzo(a)pyrene	N	0	ug/L	10	03/16/98	3 VHEB	50-32-8		
1.2-Diphenylhydraz	ine N)	ug/L	10	03/16/98	3 VHEB	122-66-7		
Nitrobenzene-d5 (S) 4:	3	*		03/16/98	3 VHEB	4165-60-0		
2-Fluorobiphenyl (S) 58	3	x		03/16/98		321-60-8		
Pheno1-d6 (S)	2:	1	X		03/16/98		13127-88-3		
2-Fluorophenol (S)	8		X		03/16/98		367-12-4		1
2.4.6-Tribromophen	o1 (S) 44	4	x		03/16/98		118-79-6		-
Terphenyl-d14 (S)	79	•	X		03/16/98		1718-51-0		
Date Extracted					03/10/98				

Tel: 281-488-1810 Fax: 281-488-4661

DATE: 04/01/98

PAGE: 3

Pace Project Number: 851674 Client Project ID: HWPW

•	85173771	•			3/03/98		Matrix: Wat
lient Sample ID:	HWPW-MW-02-1SA9	8	Date R	eceived: 03	3/05/98		
arameters	Res	ults Units	PRL	Anal yzed	Analyst	: CAS#	Footnotes
C/MS VOA		33 1 131 1			••••	*******	• ••••••
GC/MS VOCs. RCRA		Method: EPA 82	260		Prep Me	thod: EPA	8260
Methylene Chloride	ND	ug/L	5	03/17/98	NZAI	75-09-2	
Benzene	NO	ug/L	5	03/17/98		71-43-2	
1.2-Dichloroethane	ND	ug/L _.	5	03/17/98	NZAI	107-06-2	
Toluene	ND	ug/L	5	03/17/98	NZAI	108-88-3	
Chlorobenzene	ND	ug/L	5	03/17/98	NZAI	108-90-7	
Ethylbenzene	ND	ug/L	5	03/17/98	NZAI	100-41-4	
Xylene (Total)	ND	ug/L	5	03/17/98	NZAI	1330-20-7	
Dibromofluoromethan	e (S) 98	x		03/17/98	NZAI	1868-53-7	
Toluene-d8 (S)	96	x		03/17/98	NZAI	2037-26-5	
4-Bromofluorobenzen	e (S) 99	X		03/17/98	NZAI	460-00-4	
C/MS Semi-VOA							
Semivolatile Organics	. Water	Method: EPA 82	70		Prep Me	thod: EPA	3520
Pheno1	ND	ug/L	10	03/16/98	•	108-95-2	
Nitrobenzene	ND	ug/L	10	03/16/98		98-95-3	
2,4-Dimethylphenol	ND	ug/L	10	03/16/98	VHEB :	105-67-9	
bis(2-Chloroethoxy)	methane ND	ug/L	10	03/16/98	VHEB :	111-91-1	•
Naphthalene ·	31	ug/L	10	03/16/98		91-20-3	
2-Methylnaphthalene	ND	ug/L	10	03/16/98		91-57-6	
2-Chloronaphthalene	ND	ug/L	10	03/16/98		91-58-7	
Acenaphthylene	ND	ug/L	10	03/16/98		208-96-8	
2.6-Dinitrotoluene	ND	ug/L	10	03/16/98		606-20-2	
Acenaphthene	26	ug/L	10	03/16/98		83-32-9	
4-Nitrophenol	ND	ug/L	50	03/16/98		100-02-7	
Dibenzofuran	20	ug/L	10	03/16/98		132-64-9	
2.4-Dinitrotoluene	ND	ug/L	10	03/16/98		121-14-2	
Fluorene	20	ug/L	10	03/16/98		36-73-7	
4.6-Dinitro-2-methyl		ug/L	50	03/16/98		534-52-1	
N-Nitrosodiphenylami	•	ug/L	10	03/16/98		36-30-6	
Pentachlorophenol	ND	ug/L	50	03/16/98		37-86-5	
Phenanthrene	ND	ug/L	10	03/16/98		35-01-8	
Anthracene	ND	ug/L	10	03/16/98		L20-12-7	
Di-n-butylphthalate	ND	ug/L	10	03/16/98		120-12-7 34-74-2	
Fluoranthene	ND ND	ug/L	10	03/16/98		206-44-0	
Pyrene	ND ND	ug/L	10	03/16/98		129-00-0	
rvrene							

Ļ

Tel: 281-488-1810 Fax: 281-488-4661

DATE: 04/01/98

PAGE: 4

Pace Sample No: Client Sample ID:	85173771 HWPW-MW-02	?-1SA98		Date Collect Date Recei		3/03/98 3/05/98		Matrix: Water	
Parameters		Results	Units	PRL	Anal yzed	Anal ys	t CAS#	Footnotes	
Benzo(a)anthracene		ND	ug/L	10	03/16/98	VHEB	56-55-3		
Chrysene		ND	ug/L	10	03/16/98	VHEB	218-01-9		
bis(2-Ethylhexyl)p	hthalate	ND	ug/L	10	03/16/98	VHEB	117-81-7		
Benzo(a)pyrene		ND ·	ug/L	10	03/16/98	VHEB	50-32-8	•	
1,2-Diphenylhydraz	ine	ND	ug/L	10	03/16/98	VHEB	122-66-7		
Nitrobenzene-d5 (S)	48	x		03/16/98	VHEB	4165-60-0		
2-Fluorobiphenyl (S)	60	X		03/16/98	VHEB	321-60-8		
Phenol-d6 (S)		34	×		03/16/98	VHEB	13127-88-3	3	
2-Fluorophenol (S)	100	25	X		03/16/98	VHEB	367-12-4		
2,4,6-Tribromophen	ol (S)	58	x		03/16/98	VHEB	118-79-6		
Terphenyl-d14 (S)		66	x		03/16/98	VHEB	1718-51-0		
Date Extracted					03/10/98				

Tel: 281-488-1810 Fax: 281-488-4661

DATE: 04/01/98

PAGE: 5

Pace Project Number: 851674 Client Project ID: HWPW

•	73789 N-MW-03-1SA98				/03/98 /05/98		Matrix: Water
Parameters	Result	s Units	PRL	Ana1 yzed	Analys	t CAS#	Footnotes
							• •••••••
GC/MS VOA							•
GC/MS VOCs, RCRA	· Mo	ethod: EPA 826	60		Pren M	lethod: EPA	8260
Methylene Chloride	ND	ug/L	5	03/16/98	NZAI	75-09-2	3233
Benzene	ND	ug/L	5	03/16/98	NZAI	71-43-2	
1.2-Dichloroethane	ND	ug/L	5	03/16/98	NZAI	107-06-2	
Toluene	ND	ug/L	5	03/16/98	NZAI	108-88-3	
Chlorobenzene	ND	ug/L	5	03/16/98	NZAI	108-90-7	
Ethylbenzene	ND	ug/L	5	03/16/98	NZAI	100-41-4	
Xylene (Total)	ND	ug/L	5	03/16/98	NZAI	1330-20-7	
Dibromofluoromethane (S	5) 96	x		03/16/98	NZAI	1868-53-7	
Toluene-d8 (S)	96	x		03/16/98	NZAI	2037-26-5	
4-Bromofluorobenzene (S	5) 102	x		03/16/98	NZAI	460-00-4	
GC/MS Semi-VOA							
Semivolatile Organics. Wa	iter Me	thod: EPA 827	0		Prep M	ethod: EPA	3520
Pheno1	ND	ug/L	10	03/17/98	VHEB	108-95-2	
Nitrobenzene	ND	ug/L	10	03/17/98	VHEB	98-95-3	
2.4-Dimethylphenol	ND	ug/L	10	03/17/98	VHEB	105-67-9	
bis(2-Chloroethoxy)meth	nane ND	ug/L	10	03/17/98	VHEB	111-91-1	
Naphthalene	ND	ug/L	10	03/17/98	VHEB	91-20-3	
2-Methylnaphthalene	ND	ug/L	10	03/17/98	VHEB	91-57-6	
2-Chloronaphthalene	ND	ug/L	10	03/17/98	VHEB	91-58-7	
Acenaphthylene	ND	ug/L	10	03/17/98	VHEB	208-96-8	
2.6-Dinitrotoluene	NO	ug/L	10	03/17/98	VHEB	606-20-2	
Acenaphthene	60	ug/L	10	03/17/98	VHEB	83-32-9	
4-Nitrophenol	ND	ug/L	50	03/17/98	VHEB	100-02-7	
Dibenzofuran	44	ug/L	10	03/17/98	VHEB	132-64-9	
2.4-Dinitrotoluene	ND	ug/L	10	03/17/98	VHEB	121-14-2	
Fluorene	52	ug/L	10	03/17/98	VHEB	86-73-7	
4.6-Dinitro-2-methylphe	no1 ND	ug/L	50	03/17/98	VHEB	534-52-1	
N-Nitrosodiphenylamine	ND	ug/L	10	03/17/98	VHEB	86-30-6	
Pentachlorophenol	ND	ug/L	50	03/17/98	VHEB	87-86-5	
Phenanthrene	ND	ug/L	10	03/17/98	VHEB	85-01-8	
Anthracene	. ND	ug/L	10	03/17/98	VHEB	120-12-7	
Di-n-butylphthalate	ND	ug/L	10	03/17/98	VHEB	84-74-2	
Fluoranthene	ND	ug/L	10	03/17/98	VHEB	206-44-0	
Pyrene	ND	ug/L	10	03/17/98	VHEB	129-00-0	
G COH 002567							

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Pace Sample No:	85173789				llected:	03/03/98		Matrix:	Water
Client Sample ID:	HWPW-MW-03	-1SA98		Date R	eceived:	03/05/98			
Parameters		Results	Units	PRL	Analyz	ed Analy	st CAS#	Footno	otes
Benzo(a)anthrace	ne	ND	ug/L	10	03/17/	98 VHEB	56-55-3	• •••••	• • • • •
Chrysene		ND :	ug/L	10	03/17/	98 VHEB	218-01-9		
bis(2-Ethylhexyl)phthalate	ND .	ug/L	10	03/17/	98 VHEB	117-81-7		
Benzo(a)pyrene		ND	ug/L	10	03/17/	98 VHEB	50-32-8		
1.2-Diphenylhydr	azine	ND	ug/L	10	03/17/	98 VHEB	122-66-7		
Nitrobenzene-d5	(S)	35	x		03/17/	98 VHEB	4165-60-0		
2-Fluorobiphenyl	(S)	44	*		03/17/	98 VHEB	321-60-8		
Pheno1-d6 (S)		16	×		03/17/	98 VHEB	13127-88-3	3	
2-Fluorophenol ((S)	6	X X	!	03/17/	98 VHEB	367-12-4		1
2.4.6-Tribromoph		52	x		03/17/	98 VHEB	118-79-6		
Terphenyl-d14 (S	5)	76	×		03/17/	98 VHEB	1718-51-0		
Date Extracted					03/10/	98			

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Pace Project Number: 851674 Client Project ID: HWPW

·	5173797 WPW-MW-04-1SA9	8			03/03/98 03/05/98		Matrix: Wate
_		•					
Parameters .	Res	ults Unit	s PRL	Analyze	d Analyst	t CAS#	Footnotes
						********	• •••••••
GC/MS VOA							
GC/MS VOCs, RCRA		Method: EPA	8260		Prep Me	ethod: EPA	8260
Methylene Chloride	ND	ug/L	5	03/16/9	8 NZAI	75-09-2	
Benzene	ND	ug/L	. 5	03/16/9	8 NZAI	71-43-2	
1.2-Dichloroethane	ND	ug/L	5	03/16/9	8 NZAI	107-06-2	
To1uene	ND	ug/L	5	03/16/9	8 NZAI	108-88-3	
Chlorobenzene	ND	ug/L	5	03/16/9	8 NZAI	108-90-7	
Ethylbenzene	ND	ug/L	5	03/16/9	8 NZAI	100-41-4	
Xylene (Total)	ON	ug/L	5	. 03/16/9	8 NZAI	1330-20-7	
Dibromofluoromethane	(S) 104	*		03/16/9	8 NZAI	1868-53-7	
Toluene-d8 (S)	100	x		03/16/9	8 NZAI	2037-26-5	
4-Bromofluorobenzene	(S) 98	*		03/16/9	8 NZAI	460-00-4	
GC/MS Semi-VOA							
Semivolatile Organics.	Water	Method: EPA	8270		Prep Me	thod: EPA	3520
Phenol	ND	ug/L	10	03/23/9	-	108-95-2	0020
Nitrobenzene	ND	ug/L	10	03/23/9		98-95-3	
2.4-Dimethylphenol	ND	ug/L	10	03/23/9		105-67-9	
bis(2-Chloroethoxy)me		ug/L	10	03/23/9		111-91-1	
Naphthalene	ND	ug/L	10	03/23/9		91-20-3	
2-Methylnaphthalene	ND	ug/L	10	03/23/9		91-57-6	
2-Chloronaphthalene	ND	ug/L	10	03/23/9		91-58-7	
Acenaphthylene	ND	ug/L	10	03/23/9		208-96-8	
2,6-Dinitrotoluene	i ND	ug/L	10	03/23/9		606-20-2	
Acenaphthene	ND	ug/L	10	03/23/9		83-32-9	
4-Nitrophenol	ND	ug/L	50	03/23/9		100-02-7	
Dibenzofuran	ND	ug/L	10	03/23/9		132-64-9	
2,4-Dinitrotoluene	ON	ug/L	10	03/23/9		121-14-2	
Fluorene	ND	ug/L	10	03/23/9		86-73-7	
4.6-Dinitro-2-methylp		ug/L	50	03/23/9		534-52-1	
N-Nitrosodiphenylamin		ug/L	10	03/23/9		86-30-6	
Pentachlorophenol	ND	ug/L	50	. 03/23/9		87-86-5	
Phenanthrene	ND	ug/L	10	03/23/9		85-01-8	
Anthracene	ND	ug/L	10	03/23/9		120-12-7	
Di-n-butylphthalate	ND	ug/L	10	03/23/9		84-74-2	
Fluoranthene	ND	ug/L	10	03/23/9		206-44-0	
Pyrene	ND ND	ug/L	10	03/23/9		129-00-0	

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Pace Sample No: Client Sample ID:	85173797 HWPW-MW-04	-1SA98		Date Col Date Re	lected: eceived:	03/03/98 03/05/98		Matrix:	Water
Parameters		Results	Units	PRL	Anal yz	ed Analyst	: CAS#	Footno	tes
Benzo(a)anthrace Chrysene bis(2-Ethylhexyl		ND ND ND	ug/L ug/L ug/L	10 10 10	03/23/ 03/23/ 03/23/	98 VHEB	56-55-3 218-01-9 117-81-7		
Benzo(a)pyrene 1.2-Diphenylhydr Nitrobenzene-d5	azine	ND ND 26	ug/L ug/L %	10 10	03/23/ 03/23/ 03/23/	98 VHEB	50-32-8 122-66-7 4165-60-0		
2-Fluorobiphenyl Phenol-d6 (S) 2-Fluorophenol ((S)	32 4 5	* * *		03/23/ 03/23/ 03/23/	98 VHEB 98 VHEB	321-60-8 13127-88-3 367-12-4	3	2 2
2.4.6-Tribromoph Terphenyl-d14 (S Date Extracted	enol (S)	13 31	x x		03/23/ 03/23/ 03/10/	98 VHEB	118-79-6 1718-51-0		

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Pace Project Number: 851674 Client Project ID: HWPW

	35173805 -WPW-MW-05	-1SA98		Date Coll Date Rec		/04/98 /05/98		Matrix:	Water
Parameters		Results	Units	PRL	Anal yzed	Analyst	CAS#	Footno	otes
	• • • • • • • • •		• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •				• • • • • • • • • • • • • • • • • • • •
GC/MS VOA				٠.					
GC/MS VOCs. RCRA		Meth	od: EPA 8260			Prep Me	thod: EPA	8260	
Methylene Chloride		ND	ug/L	5	03/15/98	NZAI	75-09-2		
Benzene		ND	ug/L	5	03/15/98	NZAI	71-43-2		
1.2-Dichloroethane		ND	ug/L	5	03/15/98	NZAI	107-06-2		
Toluene		ND	ug/L	5	03/15/98	NZAI	108-88-3		
Chlorobenzene		ND	ug/L	5	03/15/98	NZAI	108-90-7		
Ethylbenzene		ND	ug/L	5	03/15/98	NZAI	100-41-4		
Xylene (Total)		6.6	ug/L	5	03/15/98	NZAI	1330-20-7	7	
Dibromofluoromethan	e (S)	110	*		03/15/98	NZAI	1868-53-7	7	
Toluene-d8 (S)		96	X .		03/15/98	NZAI	2037-26-5	5	
4-Bromofluorobenzen	e (S)	104	*		03/15/98	NZAI	460-00-4		
GC/MS Semi-VOA	•								
Semivolatile Organics	. Water	Meth	od: EPA 8270			Prep Me	ethod: EP/	3520	
Phenol		ND	ug/L	10	03/17/98	VHEB	108-95-2		
Nitrobenzene		ND	ug/L	10	03/17/98	VHEB	98-95-3		
2.4-Dimethylphenol		ND	ug/L	10	03/17/98	VHEB	105-67-9		
bis(2-Chloroethoxy)	methane	ND	ug/L	10	03/17/98		111-91-1		
Naphthalene		ND	ug/L	10	03/17/98	VHEB	91-20-3		
2-Methylnaphthalene	:	ND	ug/L	10	03/17/98	VHEB	91-57-6		
2-Chloronaphthalene		ND	ug/L	10	03/17/98	VHEB	91-58-7		
Acenaphthylene		ND	ug/L	10	03/17/98	VHEB	208-96-8		
2.6-Dinitrotoluene		ND	ug/L	10	03/17/98	VHEB	606-20-2		
Acenaphthene		ND	ug/L	10	03/17/98	VHEB	83-32-9		
4-Nitrophenol		ND	ug/L	50	03/17/98	VHEB	100-02-7		
Dibenzofuran		ND	ug/L	10	03/17/98	VHEB	132-64-9		
2.4-Dinitrotoluene		ND	ug/L	10	03/17/98	VHEB	121-14-2		
Fluorene		ND	ug/L	10	03/17/98	VHEB	86-73-7		
4.6-Dinitro-2-methy	/1pheno1	ND	ug/L	50	03/17/98		534-52-1		
N-Nitrosodiphenylan		ND	ug/L	10	03/17/98		86-30-6		
Pentachlorophenol		ND	ug/L	50	03/17/98		87-86-5		
Phenanthrene		ND	ug/L	10	03/17/98		85-01-8		
Anthracene		ND	ug/L	10	03/17/98		120-12-7	•	
Di-n-butylphthalate	2	ND	ug/L	10	03/17/98		84-74-2		
Fluoranthene		ND	ug/L	10	03/17/98	VHEB	206-44-0		
		ND	ug/L	10	03/17/98	VHEB	129-00-0		
Pyrene KG COH 002571					÷ C				

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Pace Sample No:	85173805			Date Collec	ted: 03	3/04/98		Matrix: Water
Client Sample ID:	HWPW-MW-05	-1SA98		Date Recei	ived: 03	3/05/98		
Parameters		Results	Units	PRL	Anal yzed	Anal yst	CAS#	Footnotes
		•••••	•••••		•••••		•••••	
Benzo(a)anthracen	e	ND	ug/L	10	03/17/98	VHEB	56-55-3	
Chrysene		ND	ug/L	10	03/17/98	VHEB	218-01-9	
bis(2-Ethylhexyl)	phthalate	ND	ug/L	10	03/17/98	VHEB	117-81-7	
Benzo(a)pyrene		ND	ug/L	10	03/17/98	VHEB	50-32-8	
1,2-Diphenylhydra	zine	ND	ug/L	10	03/17/98	VHEB	122-66-7	
Nitrobenzene-d5 (S)	70 .	x		03/17/98	VHEB	4165-60-0	
2-Fluorobiphenyl	(S)	75	% .		03/17/98	VHEB	321-60-8	•
Phenol-d6 (S)		40	X		03/17/98	VHEB	13127-88-3	
2-Fluorophenol (S)	26	X		03/17/98	VHEB	367-12-4	
2.4.6-Tribromophe	no1 (S)	60	x		03/17/98	VHEB	118-79-6	
Terphenyl-d14 (S)		70	x		03/17/98	VHEB	1718-51-0	
Date Extracted					03/10/98			

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Pace Project Number: 851674 Client Project ID: HWPW

Pace Sample No: 85173813	10100		Date Collec		/04/98 /05/09		Matrix:	Water
Client Sample ID: HWPW-MW-07	-1SA98		Date Recei	ivea: US.	/05/98			
Parameters	Results	Units	PRL	Analyzed	Anal yst	CAS#	Footno	tes
			•••••	•••••	••••		• •••••	••••
GC/MS VOA								
GC/MS VOCs. RCRA	Meth	od: EPA 8260			•	thod: EPA	8260	
Methylene Chloride	ND	ug/L	5	03/16/98	-	75-09-2		
Benzene	ND	ug/L	5	03/16/98		71-43-2		
1.2-Dichloroethane	ND	ug/L	5	03/16/98		107-06-2		
Toluene	ND	ug/L	5	03/16/98	NZAI	108-88-3		
Chlorobenzene	ND	ug/L	5	03/16/98		108-90-7		
Ethylbenzene	ND	ug/L	5	03/16/98		100-41-4		
Xylene (Total)	ND	ug/L	5	03/16/98		1330-20-7		
Dibromofluoromethane (S)	102	x		03/16/98	NZAI	1868-53-7	,	
Toluene-d8 (S)	94	×		03/16/98	NZAI	2037-26-5	,	
4-Bromofluorobenzene (S)	98	x		03/16/98	NZAI	460-00-4		
GC/MS Semi-VOA								
Semivolatile Organics, Water	Meth	od: EPA 8270			Prep Me	thod: EPA	3520	
Phenol	ND	ug/L	10	03/23/98	VHEB	108-95-2		
Nitrobenzene	ND	ug/L	10	03/23/98	VHEB	98-95-3		
2.4-Dimethylphenol	ND	ug/L	10	03/23/98	VHEB	105-67-9		
bis(2-Chloroethoxy)methane	ND	ug/L	10	03/23/98	VHEB	111-91-1		
Naphthalene	ND	ug/L	10	03/23/98	VHEB	91-20-3		
2-Methylnaphthalene	ND	ug/L	10	03/23/98	VHEB	91-57-6		
2-Chloronaphthalene	ND	ug/L	10	03/23/98	VHEB	91-58-7		
Acenaphthylene	ND	ug/L	10	03/23/98	VHEB	208-96-8		
2.6-Dinitrotoluene	ND	ug/L	10	03/23/98	VHEB	606-20-2		
Acenaphthene	ND	ug/L	10	03/23/98	VHEB	83-32-9		
4-Nitrophenol	ND	ug/L	50	03/23/98	VHEB	100-02-7		
Dibenzofuran	ND	ug/L	10	03/23/98	VHEB	132-64-9		
2,4-Dinitrotoluene	ND	ug/L	10	03/23/98	VHEB	121-14-2		
Fluorene	ND	ug/L	10	03/23/98	VHEB	86-73-7		
4.6-Dinitro-2-methylphenol	ND	ug/L	50	03/23/98	VHEB	534-52-1		
N-Nitrosodiphenylamine	ND	ug/L	10	03/23/98	VHEB	86-30-6		
Pentachlorophenol	ND	ug/L	50	03/23/98	VHEB	87-86-5		
Phenanthrene	ND	ug/L	10	03/23/98	VHEB	85-01-8		
Anthracene	ND	ug/L	10	03/23/98	VHEB	120-12-7		
Di-n-butylphthalate	ND	ug/L	10	03/23/98	VHEB	84-74-2		
Fluoranthene	ND	ug/L	10	03/23/98	VHEB	206-44-0		
Pyrene	ND	ug/L	10	03/23/98	VHEB	129-00-0		
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Pace Sample No:	85173813			Date Collec	cted: 0	3/04/98		Matrix:	Water
lient Sample ID:	HWPW-MW-07	-1SA98	•	Date Recei	ived: 0	3/05/98			
Parameters		Results	Units	PRL .	Analyzed	Anal ys	t CAS#	Footno	tes
	• • • • • • • • • • • • • • • • • • • •	•••••	•••••	••••••	•••••	••••	• • • • • • • • • •	• •••••	
Benzo(a)anthrace	ne	ND	ug/L	10	03/23/98	VHEB	56-55-3		
Chrysene		ND	ug/L	10	03/23/98	VHEB	218-01-9		
bis(2-Ethylhexyl))phthalate	ND	ug/L	10	03/23/98	VHEB	117-81-7		
Benzo(a)pyrene		ND	ug/L	10	03/23/98	VHEB	50-32-8		
1,2-Diphenylhydra	azine	ND	ug/L	10	03/23/98	VHEB	122-66-7		
Nitrobenzene-d5 ((S)	37	x		03/23/98	VHEB	4165-60-0		
2-Fluorobiphenyl	(S)	57 ·	*		03/23/98	VHEB	321-60-8		
Phenol-d6 (S)		5	z		03/23/98	VHEB	13127-88-3	}	2
2-Fluorophenol (S	5)	6	X .		03/23/98	VHEB	367-12-4		2
2,4.6-Tribromophe	enol (S)	0	ž.		03/23/98		118-79-6		3
Terphenyl-d14 (S)		55	x		03/23/98		1718-51-0		3
Date Extracted			•		03/10/98	***************************************	1,10,31,0		

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Pace Project Number: 851674 Client Project ID: HWPW

Pace Sample No: 85173	839				/04/98		Matrix:	Wate
	MW-08-1SA98	•	Date Re	eceived: 03	/05/98			
Parameters	Results	Units	PRL	Analyzed	Analyst	: CAS#	Footno	tes
					*****		• •••••	
C/MS VOA								
GC/MS VOCs, RCRA	Met	hod: EPA 826	i0		•	thod: EPA	8260	
Methylene Chloride	ND	ug/L	5	03/15/98	NZAI	75-09-2		
Benzene	ND	ug/L	5	03/15/98	NZAI	71-43-2		
1.2-Dichloroethane	ON	ug/L	5	03/15/98	NZAI	107-06-2		
Toluene	ND	ug/L	5	03/15/98	NZAI	108-88-3		
Chlorobenzene	ND	ug/L	5	03/15/98	NZAI	108-90-7		
Ethylbenzene	ND	ug/L	5	03/15/98	NZAI	100-41-4		
Xylene (Total)	ND	ug/L	5	03/15/98	NZAI	1330-20-7		
Dibromofluoromethane (S)	112	x		03/15/98	NZAI	1868-53-7		
oluene-d8 (S)	96	x		03/15/98	NZAI	2037-26-5		
4-Bromofluorobenzene (S)		X		03/15/98	NZAI	460-00-4		
GC/MS Semi-VOA								
Semivolatile Organics, Wat	er Met	hod: EPA 827	70		Prep Me	ethod: EPA	3520	
Phenol	ND	ug/L	10	03/16/98	VHEB	108-95-2		
Nitrobenzene	ND	ug/L	10	03/16/98	VHEB	98-95-3		
2.4-Dimethylphenol	ND	ug/L	10	03/16/98	VHEB	105-67-9		
bis(2-Chloroethoxy)metha	ine ND	ug/L	10	03/16/98	VHEB	111-91-1		
Naphthalene	300	ug/L	20	03/16/98	VHEB	91-20-3		
2-Methylnaphthalene	16	ug/L	10	03/16/98	VHEB	91-57-6	,	
2-Chloronaphthalene	ND	ug/L	10	03/16/98	VHEB	91-58-7		
Acenaphthylene	ND	ug/L	10	03/16/98	VHEB	208-96-8		
2.6-Dinitrotoluene	ND	ug/L	10	03/16/98	VHEB	606-20-2		
Acenaphthene	32	ug/L	10	03/16/98		83-32-9		
4-Nitrophenol	ND	ug/L	50	03/16/98		100-02-7		
Dibenzofuran	22	ug/L	10	03/16/98		132-64-9		
2.4-Dinitrotoluene	ND	ug/L	10	03/16/98		121-14-2		
	23	ug/L	10	03/16/98	VHEB	86-73-7		
Fluorene 4.6-Dinitro-2-methylphe		ug/L	50	03/16/98		534-52-1		
N-Nitrosodiphenylamine	- ND	ug/L	10	03/16/98		86-30-6		
	ND	ug/L	50	03/16/98		87-86-5		
Pentachlorophenol	ND	ug/L	10	03/16/98		85-01-8		
Phenanthrene	ND	ug/L	10	03/16/98		120-12-7		
Anthracene		ug/L	10	03/16/98		84-74-2		
Di-n-butylphthalate	ND ND	ug/L ug/L	10	03/16/98		206-44-0		
Fluoranthene Pyrene	ND ND	ug/L ug/L	10	03/16/98		129-00-0		
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Pace Sample No:	85173839			Date Collec	ted: (3/04/98		Matrix:	Wate
Client Sample ID:	HWPW-MW-08-	-1SA98		Date Recei	ved: (03/05/98			
Parameters		Results	Units	PRL	Anal yzed	i Analyst	CAS#	Footnot	es
• • • • • • • • • • • • • • • • • • • •			• • • • • • • • • • • • • • • • • • • •	•••••		• • • • • •	••••••	• • • • • • •	
Benzo(a)anthracene		ND	ug/L	10	03/16/98	3 VHEB	56-55-3		
Chrysene		ND	ug/L	10	03/16/98	3 VHEB	218-01-9		
bis(2-Ethylhexyl)p	hthalate .	ND	ug/L	10	03/16/98	3 VHEB	117-81-7		
Benzo(a)pyrene		ND	ug/L	10	03/16/98	3 VHEB	50-32-8		
1,2-Diphenylhydraz	ine	ND	ug/L	10	03/16/98	3 VHEB	122-66-7		
Nitrobenzene-d5 (S)	67	X		03/16/98	3 VHEB	4165-60-0		
2-Fluorobiphenyl (S)	64	X		03/16/98	3 VHEB	321-60-8		
Phenol-d6 (S)		34	X		03/16/98	3 VHEB	13127-88-3		
2-Fluorophenol (S)		18	*		03/16/98	3 VHEB	367-12-4		1
2,4,6-Tribromophen	(S) fo	65	X		03/16/98	3 VHEB	118-79-6		
Terphenyl-d14 (S)		110	X		03/16/98	VHEB .	1718-51-0		
Date Extracted					03/10/98	3			

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Pace Project Number: 851674 Client Project ID: HWPW

	85173847 HWPW-MW-09-1SA98			Date Collected: (Matrix: Wate
Client Sample ID: HW							
Parameters	Resu	ts Units	PRL	Anal yze	d Analyst	: CAS#	Footnotes
GC/MS VOA							
uc/113 - 10/1							
GC/MS VOCs. RCRA		Method: EPA 826			•	thod: EPA	8260
Methylene Chloride	ND	ug/L	5	03/15/9	-	75-09-2	
Benzene	ND	ug/L	5	03/15/9	-	71-43-2	
1.2-Dichloroethane	ND .	ug/L	5		98. NZAI	107-06-2	
Toluene	ND	ug/L	5	03/15/9		108-88-3	
Chlorobenzene	ND	ug/L	5	03/15/9		108-90-7	
Ethylbenzene	ND	ug/L	5	03/15/9		100-41-4	
Xylene (Total)	ND	ug/L	5	03/15/9	98 NZAI	1330-20-7	
Dibromofluoromethane	(S) 112	*		03/15/9		1868-53-7	•
Toluene-d8 (S)	96	x		03/15/9	98 NZAI	2037-26-5	;
4-Bromofluorobenzene	(S) 104	*		03/15/9	98 NZAI	460-00-4	
GC/MS Semi-VOA							
Semivolatile Organics,	Water	Method: EPA 827	0		Prep Me	ethod: EPA	3520
Phenol	ND	ug/L	10	03/23/9	98 VHEB	108-95-2	
Nitrobenzene	ND	ug/L	10	03/23/9	98 VHEB	98-95-3	
2,4-Dimethylphenol	ND	ug/L	10	03/23/9	98 VHEB	105-67-9	
bis(2-Chloroethoxy)me	thane ND	ug/L	10	03/23/9	98 VHEB	111-91-1	
Naphthalene	ND	ug/L	10	03/23/9	98 VHEB	91-20-3	
2-Methylnaphthalene	ND	ug/L	10	03/23/9	98 VHEB	91-57-6	
2-Chloronaphthalene	ND	ug/L	10	03/23/9	98 VHEB	91-58-7	
Acenaphthylene	ND	ug/L	10	03/23/	98 VHEB	208-96-8	
2,6-Dinitrotoluene	ND	ug/L	10	03/23/	98 VHEB	606-20-2	
Acenaphthene	ND	ug/L	10	03/23/	98 VHEB	83-32-9	.1
4-Nitrophenol	ND	ug/L	50	03/23/	98 VHEB	100-02-7	
Dibenzofuran	ND	ug/L	10	03/23/	98 VHEB	132-64-9	
2.4-Dinitrotoluene	ND	ug/L	10	03/23/	98 VHEB	121-14-2	
Fluorene	ND	ug/L	10	03/23/	98 VHEB	86-73-7	
4,6-Dinitro-2-methylp		ug/L	50	03/23/		534-52-1	
N-Nitrosodiphenylamir		ug/L	10	03/23/		86-30-6	
Pentachlorophenol	ND ND	ug/L	50	03/23/		87-86-5	
Phenanthrene	ND	ug/L	10	03/23/		85-01-8	
Anthracene	ND	ug/L	10	03/23/		120-12-7	
Di-n-butylphthalate	ND	ug/L	10	03/23/		84-74-2	
Fluoranthene	ND	ug/L	10	03/23/		206-44-0	
Pyrene	ND	ug/L	10	03/23/		129-00-0	
-		•					

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Pace Sample No:	85173847	85173847			cted: 03	03/04/98		Matrix:	Water
Client Sample ID:	HWPW-MW-09-1SA98			Date Received: 03		03/05/98			
Parameters		Results	Units	PRL	Anal yzed	Anal yst	: CAS#	Footn	otes
		ND	ug/L	10	03/23/98	VHEB	56-55-3	• ••••	• • • • •
Benzo(a)anthrace Chrysene	ne	ND	ug/L ug/L	10	03/23/98	VHEB	218-01-9		
bis(2-Ethylhexyl)phthalate	ND	ug/L	10	03/23/98	VHEB	117-81-7		
Benzo(a)pyrene	•	ND .	ug/L	10	03/23/98	VHEB	50-32-8		
1.2-Diphenylhydr	azine	ND	ug/L	10	03/23/98	VHEB	122-66-7		
Nitrobenzene-d5	(\$)	62	X		03/23/98	VHEB	4165-60-0		
2-Fluorobiphenyl (S)		63	x		03/23/98	VHEB	321-60-8		
Pheno1-d6 (S)		16	x		03/23/98	VHEB	13127-88-3	3	
2-Fluorophenol (S)		14	X .		03/23/98	VHEB	367-12-4		
2,4,6-Tribromoph	enol (S)	29	x		03/23/98	VHEB	118-79-6		
Terphenyl-d14 (S)	70	X		03/23/98	VHEB	1718-51-0		
Date Extracted					03/10/98				

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Pace Project Number: 851674 Client Project ID: HWPW

	5173854 VPW-MW-10A-	1SA98				/03/98 /05/98		Matrix: Wat
Parameters		Results	Units	PRL	Analyzed	Analys	t CAS#	Footnotes
		•••••		•••••	•••	••••	•••••	
GC/MS VOA								
GC/MS VOCs, RCRA		Meth	od: EPA 8260			Prep M	ethod: EPA	8260
Methylene Chloride		ND	ug/L	5	03/16/98	NZAI	75-09-2	
Benzene		ND	ug/L	5	03/16/98	NZAI	71-43-2	
1.2-Dichloroethane		ND	ug/L	5	03/16/98	NZAI	107-06-2	
Toluene		ND	ug/L	5	03/16/98	NZAI	108-88-3	
Chlorobenzene		ND	ug/L	5	03/16/98	NZAI	108-90-7	
Ethylbenzene		ND	ug/L	5	03/16/98	NZAI	100-41-4	
Xylene (Total)		ND	ug/L	5	03/16/98	NZAI	1330-20-7	•
Dibromofluoromethane	(S)	100	x		03/16/98	NZAI	1868-53-7	•
Toluene-d8 (S)		96	×		03/16/98	NZAI	2037-26-5	;
4-Bromofluorobenzene	(S)	100	X		03/16/98	NZAI	460-00-4	
GC/MS Semi-VOA		44.24	od. EDA 0070			Oran i	Method: EPA	x 3520
Semivolatile Organics,	Water		od: EPA 8270	10	02/16/00		108-95-2	(3320
Phenol		ND	ug/L	10	03/16/98 03/16/98		98-95-3	
Nitrobenzene		ND	ug/L	10	03/16/98		105-67-9	
2.4-Dimethylphenol	. 4.1	ND	ug/L	10	03/16/98		111-91-1	
bis(2-Chloroethoxy)m	etnane	ND	ug/L	10	03/16/98		91-20-3	
Naphthalene	•	ND	ug/L	10	03/16/98		91-20-3	
2-Methylnaphthalene		NĎ	ug/L	10			91-57-6	
2-Chloronaphthalene		ND	ug/L	10	03/16/98			
Acenaphthylene		ND	ug/L	10	03/16/98		208-96-8	
2.6-Dinitrotoluene		ND	ug/L	10	03/16/98		606-20-2	
Acenaphthene	•	ND	ug/L	10	03/16/98		83-32-9	
4-Nitrophenol		ND	ug/L	50	03/16/98		100-02-7	
Dibenzofuran		ND	ug/L	10	03/16/98		132-64-9	
2.4-Dinitrotoluene		NO	ug/L	10	03/16/98		121-14-2	
Fluorene		ND	ug/L	10 50	03/16/98		86-73-7 534-52-1	
4.6-Dinitro-2-methyl		ND	ug/L	50 10	03/16/98		86-30-6	
N-Nitrosodiphenylami	ne	ND	ug/L	10	03/16/98		87-86-5	
Pentachlorophenol		ND	ug/L	50	03/16/98		85-01-8	
Phenanthrene		ND	ug/L	10	03/16/98			
Anthracene		ND	ug/L	10	03/16/98		120-12-7	
Di-n-butylphthalate		ND	ug/L	10	03/16/98		84-74-2	
Fluoranthene		ND	ug/L	10	03/16/98		206-44-0 129-00-0	
Pyrene		ND	ug/L	10	03/16/98	VHEB	173-00-0	
KG COH 002579					18			

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Pace Sample No:	85173854			Date Co	llected: 0	3/03/98		Matrix:	Water
Client Sample ID:	HWPW-MW-10	A-1SA98		Date Re	eceived: 0	3/05/98			
Parameters		Results	Units	PRL	Anal yzed	Analyst	: CAS#	Footn	otes
Benzo(a)anthrace		ND	ug/L	10	03/16/98	VHEB	56-55-3		
Chrysene	- 181	ND	ug/L	10	03/16/98	VHEB	218-01-9		
bis(2-Ethylhexy	l)phthalate	ND	ug/L	10	03/16/98	VHEB	117-81-7		
Benzo(a)pyrene	•	ND ·	ug/L	10	03/16/98	VHEB	50-32-8		
1.2-Diphenylhyd	razine	ND	ug/L	10	03/16/98	VHEB	122-66-7		
Nitrobenzene-d5		57	X		03/16/98	VHEB	4165-60-0		
2-Fluorobipheny	l (S)	64	X		03/16/98	VHEB	321-60-8		
Phenol-d6 (S)		35	X		03/16/98	VHEB	13127-88-	3	
2-Fluorophenol ((S)	24	x		03/16/98	VHEB	367-12-4		
2.4.6-Tribromoph	nenol (S)	56	×		03/16/98	VHEB	118-79-6		
Terphenyl-d14 (S	5)	76	*		03/16/98	VHEB	1718-51-0		
Date Extracted					03/10/98				

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Pace Project Number: 851674 Client Project ID: HWPW

	85173862 HWPW-MW-10B	-1SA98		Date Col		03/03/98 03/05/98		Matrix: W	late
Parameters		Results	Units	PRL	Analyze	d Analyst	CAS#	Footnote	s
		•••••		••••••					
C/MS VOA									
GC/MS VOCs. RCRA	•	Meth	od: EPA 8260			Prep Me	thod: EPA	8260	
Methylene Chloride		ND	ug/L	5	03/16/9	8 NZAI	75-09-2		
Benzene		ND	ug/L	5	03/16/9		71-43-2		
1.2-Dichloroethane		ND	ug/L	5	03/16/9		107-06-2		
Toluene		ND	ug/L	5	03/16/9	8 NZAI	108-88-3		
Chlorobenzene		ND	ug/L	5	03/16/9	8 NZAI	108-90-7		
Ethylbenzene		ND	ug/L	5	03/16/9	8 NZAI	100-41-4		
Xylene (Total)		ND	ug/L	5	03/16/9	8 NZAI -	1330-20-7	7	
Dibromofluoromethan	ne (S)	100	x		03/16/9	8 NZAI	1868-53-7	7	
Toluene-d8 (S)		94	×		03/16/9	8 NZAI	2037-26-5	5	
4-Bromofluorobenzer	ne (S)	98	x		03/16/9	8 NZAI	460-00-4		
GC/MS Semi-VOA									
Semivolatile Organics	s. Water	Meth	od: EPA 8270			Prep Me	thod: EPA	A 3520	
Phenol		ND ·	ug/L	10	03/16/9	8 VHEB	108-95-2		
Nitrobenzene		ND	ug/L	10	03/16/9	8 VHEB	98-95-3		
2.4-Dimethylphenol		ND	ug/L	10	03/16/9	8 VHEB	105-67-9		
bis(2-Chloroethoxy))methane	ND	ug/L	10	03/16/9	8 VHEB	111-91-1		
Naphthalene	,	ND	ug/L	10	03/16/9	8 VHEB	91-20-3		
2-Methylnaphthalen	e	ND	ug/L	10	03/16/9	8 VHEB	91-57-6		
2-Chloronaphthalen		ND	ug/L	10	03/16/9	8 VHEB	91-58-7		
Acenaphthylene	-	ND	ug/L	10	03/16/9	8 VHEB	208-96-8		
2.6-Dinitrotoluene		ND	ug/L	10	03/16/9	8 VHEB	606-20-2		
Acenaphthene		18	ug/L	10	03/16/9	8 VHEB	83-32-9		
4-Nitrophenol		ND	ug/L	50	03/16/9	8 VHEB	100-02-7		
Dibenzofuran		ND	ug/L	10	03/16/9		132-64-9		
2.4-Dinitrotoluene		ND	ug/L	10	03/16/9		121-14-2		
Fluorene		12	ug/L	10		8 VHEB	86-73-7		
4.6-Dinitro-2-meth	vlohenol	ND	ug/L	50	03/16/9		534-52-1		
N-Nitrosodiphenyla	· •	ND	ug/L	10	03/16/9		86-30-6		
Pentachlorophenol	an i 13C	ND	ug/L ug/L	50	03/16/9		87-86-5		
Phenanthrene		ND	ug/L ug/L	10	03/16/9		85-01-8		
Anthracene		ND	ug/L	10	03/16/9		120-12-7		
Di-n-butylphthalat	· A	ND .	ug/L	10	03/16/9		84-74-2		
Fluoranthene		ND	ug/L	10	03/16/9		206-44-0		
Pyrene		ND	ug/L	10	03/16/9		129-00-0		
KG COH 002581					0.0				
120 COH 002301					20				

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Pace Sample No:	85173862			Date Collec	ted: 03	3/03/98		Matrix:	Water
Client Sample ID:	HWPW-MW-108	-1SA98		Date Recei	ived: 03	3/05/98			
Parameters		Results	Units	PRL	Anal yzed	Analyst	t CAS#	Footn	otes
			/1	10	03/16/98	VHEB	56-55-3		
Benzo(a)anthrac	ene	ND	ug/L				218-01-9		
Chrysene		ND	ug/L	10	03/16/98				
bis(2-Ethylhexy	l)phthalate	ND	ug/L	10	03/16/98	VHEB	117-81-7		
Benzo(a)pyrene		ND	ug/L	10	03/16/98	VHEB	50-32-8		
1.2-Diphenylhyd	razine	ND	ug/L	10	03/16/98	VHEB	122-66-7		
Nitrobenzene-d5		47	X		03/16/98	VHEB	4165-60-0		
2-Fluorobipheny	1 (S)	59	X		03/16/98	VHEB	321-60-8		
Phenol-d6 (S)		34	*		03/16/98	VHEB	13127-88-3	3	
2-Fluorophenol	(S)	22	x		03/16/98	VHEB	367-12-4		
2.4.6-Tribromop		51	x		03/16/98	VHEB	118-79-6		
Terphenyl-dl4 (74	X		03/16/98	VHEB	1718-51-0		
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Pace Project Number: 851674 Client Project ID: HWPW

Pace Sample No: Client Sample ID:	85173870 HWPW-MW-11A-1SA9	8			3/03/98 3/05/98		Matrix:	Wat
Parameters	Resu	lts Units	PRL	Anal yzed	Analyst	CAS#	Footno	tes
				•••	*****	••••••	• • • • • • • • • • • • • • • • • • • •	• • • •
GC/MS VOA								
GC/MS VOCs. RCRA		Method: EPA 826	0		Prep Me	thod: EP/	A 8260	
Methylene Chloride	. ND	ug/L	5	03/16/98	NZAI	75-09-2		
Benzene	ND	ug/L	5	03/16/98	NZAI	71-43-2		
1,2-Dichloroethane	ND	ug/L	5	03/16/98	NZAI	107-06-2		
Toluene	ND	ug/L	5	03/16/98	NZAI	108-88-3		
Chlorobenzene	ND	ug/L	5	03/16/98	NZAI	108-90-7		
Ethylbenzene	ND	ug/L	5	03/16/98	NZAI	100-41-4		
Xylene (Total)	6.0	ug/L	5	03/16/98	NZAI	1330-20-7	7	
Dibromofluorometha		x		03/16/98	NZAI	1868-53-7	7	
Toluene d8 (S)	96	×		03/16/98	NZAI	2037-26-	5	
4-Bromofluorobenze		*		03/16/98	NZAI	460-00-4		
SC/MS Semi-VOA Semivolatile Organic	s. Water	Method: EPA 827	0		Prep Me	thod: EP/	A 3520	
Phenol	ND	ug/L	10	03/16/98	VHEB	108-95-2		
Nitrobenzene	CN	ug/L	10	03/16/98	VHEB	98-95-3		
2.4-Dimethylphenol	ND	ug/L	10	03/16/98	VHEB	105-67-9		
bis(2-Chloroethoxy		ug/L	10	03/16/98	VHEB	111-91-1		
Naphthalene	ND	ug/L	10	03/16/98	VHEB	91-20-3		
2-Methylnaphthalen		ug/L	10	03/16/98	VHEB	91-57-6		
2-Chloronaphthalen		ug/L	10	03/16/98		91-58-7		
Acenaphthylene	ND ND	ug/L	10	03/16/98		208-96-8		
2.6-Dinitrotoluene		ug/L	. 10	03/16/98		606-20-2		
Acenaphthene	63	ug/L	10	03/16/98		83-32-9		
4-Nitrophenol	ND	ug/L	50	03/16/98		100-02-7		
Dibenzofuran	17	ug/L	10	03/16/98		132-64-9		
2.4-Dinitrotoluene		ug/L	10	03/16/98	VHEB	121-14-2		
Fluorene	23	ug/L	10	03/16/98	VHEB	86-73-7		
4.6-Dinitro-2-meth	ylphenol ND	ug/L	50	03/16/98	VHEB	534-52-1		
N-Nitrosodiphenyla		ug/L	10	03/16/98		86-30-6		
Pentachlorophenol	ND	ug/L	50	03/16/98	VHEB	87-86-5		
Phenanthrene	ND	ug/L	10	03/16/98		85-01-8		
Anthracene	ND	ug/L	10	03/16/98		120-12-7		
Di-n-butylphthalat		ug/L	10	03/16/98		84-74-2		
Fluoranthene	ND	ug/L	10	03/16/98		206-44-0		
Pyrene	ND	ug/L	10	03/16/98		129-00-0		
-		-						
KG COH 002583				22				

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Pace Sample No:	85173870			Date Collec	cted: 0	3/03/98		Matrix: Water
Client Sample ID:	HWPW-MW-11	A-1SA98		Date Recei	ived: 0	3/05/98		•
Parameters		Results	Units	PRL	Anal yzed	Analyst	: CAS#	Footnotes
Benzo(a)anthrace	ma	ND	ug/L	10	03/16/98	VHEB	56-55-3	*********
Chrysene	ine.	ND -	ug/L	10	03/16/98		218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/L	10	03/16/98	VHEB	117-81-7.	
Benzo(a)pyrene	o e	ND	ug/L	10	03/16/98	VHEB	50-32-8	
1.2-Diphenylhydr	azine	ND	ug/L	10	03/16/98	VHEB	122-66-7	
Nitrobenzene-d5	(S)	54	*		03/16/98	VHEB	4165-60-0	
2-Fluorobiphenyl	(S)	68	X		03/16/98	VHEB	321-60-8	
Phenol-d6 (S)		38	X		03/16/98	VHEB	13127-88-3	
2-Fluorophenol (S)	28	x		03/16/98	VHEB	367-12-4	
2.4.6-Tribromoph	enol (S)	61	x		03/16/98	VHEB	118-79-6	
Terphenyl-d14 (S)	65	X		03/16/98	VHEB	1718-51-0	
Date Extracted					03/10/98			

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Pace Project Number: 851674 Client Project ID: HWPW

Pace Sample No: 8	5173896		Date Collec	cted: 03	3/03/98	Matrix: Water
	WPW-MW-11B-1SA98		Date Recei	ived: 03	3/05/98	
Parameters	Results	Units	PRL	Anal yzed	Analyst CAS#	Footnotes
			•••••		•••••	•• •••••
C/MS VOA						
GC/MS VOCs. RCRA	Meth	nod: EPA 8260			Prep Method: EP	A 8260
Methylene Chloride	ND	ug/L	5	03/16/98		
Benzene	ND	ug/L	5	03/16/98		
1,2-Dichloroethane	ND	ug/L	5	03/16/98		
Toluene	ND .	ug/L	5	03/16/98		
Chlorobenzene	ND	ug/L	์ 5	03/16/98		
Ethylbenzene	ND	ug/L ug/L	5	03/16/98		
	ND	ug/L ug/L	5	03/16/98		
Xylene (Total) Dibromofluoromethane		ug/L X	J	03/16/98		
Toluene-d8 (S)	96	X		03/16/98		
4-Bromofluorobenzene		*		03/16/98		
4-Bi olioi Tuoi obelizelle	(3) 102	•		03/10/30	11211 400 00 4	
C/MS Semi-VOA						
Semivolatile Organics,	Water Meth	od: EPA 8270			Prep Method: EP	A 3520
Pheno1	ND	ug/L	10	03/23/98	VHEB 108-95-2	
Nitrobenzene	ND	ug/L	10	03/23/98	VHEB 98-95-3	
2.4-Dimethylphenol	ND	ug/L	10	03/23/98	VHEB 105-67-9	!
bis(2-Chloroethoxy)m	ethane ND	ug/L	10	03/23/98	VHEB 111-91-1	
Naphthalene	ND	ug/L	10	03/23/98	VHEB 91-20-3	
2-Methylnaphthalene	ND	ug/L	10	03/23/98	VHEB 91-57-6	
2-Chloronaphthalene	ND	ug/L	10	03/23/98	VHEB 91-58-7	
Acenaphthylene	ND	ug/L	10	03/23/98	VHEB 208-96-8	1
2,6-Dinitrotoluene	ND	ug/L	10	03/23/98	VHEB 606-20-2	:
Acenaphthene	ND	ug/L	10	03/23/98		
4-Nitrophenol	ND	ug/L	50	03/23/98		•
Dibenzofuran	ND	ug/L	10	03/23/98		
2,4-Dinitrotoluene	ND	ug/L	10	03/23/98		
Fluorene	ND	ug/L ug/L	10	03/23/98		•
	The state of the s		50	03/23/98		
4.6-Dinitro-2-methyl		ug/L	10	03/23/98		•
N-Nitrosodiphenylami		ug/L	50	03/23/98		
Pentachlorophenol	ND ND	ug/L	10	03/23/98		
Phenanthrene	ND	ug/L	10	03/23/98		,
Anthracene	ND	ug/L				
Di-n-butylphthalate	ND	ug/L	10	03/23/98 03/23/98		
Fluoranthene	ND	ug/L	10 10	03/23/98		
Pyrene	ND	ug/L	10	U3/ Z3/ 30	AUCD 153-00-0	
KG COH 002585				24		

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Pace Sample No: Client Sample ID:	85173896 HWPW-MW-11	B-1SA98		Date Collect Date Recei		3/03/98 3/05/98	***************************************	Matrix:	Water
Parameters .		Results	Units	PRL	Anal yzed	Analys	t CAS#	Footno	tes
Benzo(a)anthracen		ND	ug/L	10	03/23/98	VHEB	56-55-3	• •••••	••••
Chrysene		ND	ug/L	10	03/23/98	VHEB	218-01-9		
bis(2-Ethylhexyl)	ohthalate	ND	ug/L	10	03/23/98	VHEB	117-81-7		
Benzo(a)pyrene		ND	ug/L	10	03/23/98	VHEB	50-32-8		
1,2-Diphenylhydra:	zine	ND	ug/L	10	03/23/98	VHEB	122-66-7		
Nitrobenzene-d5 (5)	26	X		03/23/98	VHEB	4165-60-0		2
2-Fluorobiphenyl	(S)	38	x		03/23/98	VHEB	321-60-8		2
Phenol-d6 (S)		4	X		03/23/98	VHEB	13127-88-3	}	2
2-Fluorophenol (S))	4	X		03/23/98	VHEB	367-12-4		2
2.4.6-Tribromopher	no1 (S)	22	X		03/23/98	VHEB	118-79-6		
Terphenyl-d14 (S)		52	*		03/23/98	VHEB	1718-51-0		
Date Extracted					03/10/98	•			

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Pace Project Number: 851674 Client Project ID: HWPW

	.73904 W-MW-999-1SA98		Date Collect Date Recei		3/04/98 3/05/98		Matrix:	Wate
·			201			0.45#	.	
Parameters	Results	Units	PRL	Analyzed	Analysi	t CAS#	Footn	otes
GC/MS VOA								
GC/MS VOCs, RCRA	Met	hod: EPA 826	0		Prep Me	ethod: EPA	8260	
Methylene Chloride	ND	ug/L	5	03/16/98	NZAI ~	75-09-2		•
Benzene	ND	ug/L	5	03/16/98	NZAI	71-43-2		
1.2-Dichloroethane	ND .	ug/L	5	03/16/98	NZAI	107-06-2		
Toluene	ND	ug/L	. 5	03/16/98	NZAI	108-88-3		
Chlorobenzene	ND	ug/L	5	03/16/98	NZAI	108-90-7		
Ethylbenzene	ND	ug/L	5	03/16/98	NZAI	100-41-4		
Xylene (Total)	ND =	ug/L	5	03/16/98	NZAI	1330-20-7	•	
Dibromofluoromethane (S) 104	X		03/16/98	NZAI	1868-53-7	•	
Toluene-d8 (S)	98	x		03/16/98	NZAI	2037-26-5	l	
4-Bromofluorobenzene (S) 100	x		03/16/98	NZAI	460-00-4		
GC/MS Semi-VOA								
Semivolatile Organics, k	later Met	hod: EPA 827	0		Prep Me	ethod: EPA	3520	
Phenol	ND	ug/L	10	03/16/98	VHEB	108-95-2		
Nitrobenzene	ND	ug/L	10	03/16/98	VHEB	98-95-3		
2.4-Dimethylphenol	ND	ug/L	10	03/16/98	VHEB	105-67-9		
bis(2-Chloroethoxy)met	hane ND	ug/L	10	03/16/98	VHEB	111-91-1		
Naphthalene	7800	ug/L	100	03/16/98	VHEB	91-20-3		
2-Methylnaphthalene	25	ug/L	10	03/16/98	VHEB	91-57-6		
2-Chloronaphthalene	ND	ug/L	10	03/16/98	VHEB .	91-58-7		
Acenaphthylene	ND	ug/L	10	03/16/98	VHEB	208-96-8		
2,6-Dinitrotoluene	ND	ug/L	10	03/16/98	VHEB	606-20-2		
Acenaphthene	120	ug/L	10	03/16/98	VHEB	83-32-9		
4-Nitrophenol	ND	ug/L	50	03/16/98	VHEB	100-02-7		
Dibenzofuran	50	ug/L	10	03/16/98	VHEB	132-64-9		
2.4-Dinitrotoluene	NO	ug/L	10	03/16/98	VHEB	121-14-2		
Fluorene	74	ug/L	10	03/16/98	VHEB	86-73-7		
4.6-Dinitro-2-methylph	nenol ND	ug/L	50	03/16/98	VHEB	534-52-1		
N-Nitrosodiphenylamine	e ND	ug/L	10	03/16/98	VHEB	86-30-6		
Pentachlorophenol	ND	ug/L	50	03/16/98	VHEB	87-86-5		
Phenanthrene	34	ug/L	10	03/16/98	VHEB	85-01-8		
Anthracene	ND	ug/L	10	03/16/98	VHEB	120-12-7		
Di-n-butylphthalate	ND	ug/L	10	03/16/98	VHEB	84-74-2		
Fluoranthene	ND	ug/L	10	03/16/98	VHEB	206-44-0		
Pyrene	ND	ug/L	10	03/16/98	VHEB	129-00-0		

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Pace Sample No:	85173904			Date Collec	ted: 0	3/04/98		Matrix: Water
lient Sample ID:	HWPW-MW-999)-1\$A98		Date Recei	ved: 0	3/05/98	×	
arameters		Results	Units	PRL	Analyzed	i Analys	t CAS#	Footnotes
Benzo(a)anthracene	• • • • • • • • • • • • • • • • • • • •	ND	ug/L	10	03/16/98	VHEB	56-55-3	••••••
Chrysene		ND	ug/L	10	03/16/98		218-01-9	
bis(2-Ethylhexyl)ph	nthalate	ND	ug/L	10	03/16/98		117-81-7	
Benzo(a)pyrene		ND	ug/L	10	03/16/98	VHEB	50-32-8	
1.2-Diphenylhydrazi	ine	ND	ug/L	10	03/16/98	VHEB	122-66-7	
Nitrobenzene-d5 (S)	•	61	X		03/16/98	VHEB	4165-60-0	
2-Fluorobiphenyl (S	5)	62	x		03/16/98	VHEB	321-60-8	
Phenol-d6 (S)		30	X		03/16/98	VHEB	13127-88-3	
2-Fluorophenol (S)		18	x		03/16/98	VHEB	367-12-4	1 .
2.4.6-Tribromopheno	1 (S)	70	x		03/16/98	VHEB	118-79-6	
Terphenyl-d14 (S)		120	x		03/16/98	VHEB	1718-51-0	
Date Extracted					03/10/98			

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Pace Project Number: 851674 Client Project ID: HWPW

	85173920 HWPW-P-10-1SA	98		Date Colle Date Rece		3/04/98 3/05/98		Matrix:	Wate
Parameters	R	esults	Units	PRL	Anal yzed	Analyst	CAS#	Footno	tes
GC/MS VOA									
GC/MS VOCs. RCRA		Method	1: EPA 8260			Prep Me	thod: EPA	8260	
Methylene Chloride	N	D	ug/L	5	03/16/98	NZAI	75-09-2		
Benzene	N	D	ug/L	5	03/16/98	NZAI	71-43-2		
1.2-Dichloroethane	N	D	ug/L	5	03/16/98	NZAI	107-06-2		
Toluene	N	D	ug/L	5	03/16/98	NZAI	108-88-3		
Chlorobenzene	N	D	ug/L	5	03/16/98	NZAI	108-90-7		
Ethylbenzene	N	D	ug/L	5	03/16/98	NZAI	100-41-4		
Xylene (Total)	N	D	ug/L	5	03/16/98	NZAI	1330-20-7		
Dibromofluoromethan	e (S) 1	06	x		03/16/98	NZAI	1868-53-7		
Toluene-d8 (S)	9	6	X		03/16/98	NZAI	2037-26-5		
4-Bromofluorobenzen	e (S) 9	8	X		03/16/98	NZAI	460-00-4		
GC/MS Semi-VOA									
Semivolatile Organics	. Water	Method	I: EPA 8270			Prep Me	thod: EPA	3520	
Phenol	N	D	ug/L	10	03/16/98	VHEB	108-95-2		
Nitrobenzene	N	D	ug/L	10	03/16/98		98-95-3		
2.4-Dimethylphenol	N	D	ug/L	10	03/16/98		105-67-9		
bis(2-Chloroethoxy)	methane N	D	ug/L	10	03/16/98		111-91-1		
Naphthalene	56	800	ug/L	100	03/16/98		91-20-3		
2-Methylnaphthalene	1	8	ug/L	10	03/16/98	VHEB	91-57-6		
2-Chloronaphthalene	N	D	ug/L	10	03/16/98	VHEB	91-58-7		
Acenaphthylene	N	D	ug/L	10	03/16/98	VHEB	208-96-8		
2,6-Dinitrotoluene	N	D	ug/L	10	03/16/98	VHEB	606-20-2		
Acenaphthene	8	9	ug/L	10	03/16/98	VHEB	83-32-9		
4-Nitrophenol	N	D	ug/L	50	03/16/98	VHEB	100-02-7		
Dibenzofuran	3	8	ug/L	10	03/16/98	VHEB	132-64-9		
2.4-Dinitrotoluene	N	D	ug/L	10	03/16/98	VHEB	121-14-2		
Fluorene	6	0	ug/L	10	03/16/98	VHEB	86-73-7		
4,6-Dinitro-2-methy	iphenoi N	D	ug/L	50	03/16/98	VHEB	534-52-1		
N-Nitrosodiphenylam	•		ug/L	10	03/16/98	VHEB	86-30-6		
Pentachlorophenol	N	D	ug/L	50	03/16/98	VHEB	87-86-5		
Phenanthrene	2		ug/L	10	03/16/98	VHEB	85-01-8		
Anthracene	N		ug/L	10	03/16/98	VHEB	120-12-7		
Di-n-butylphthalate	N		ug/L	10	03/16/98		84-74-2		
Fluoranthene	N		ug/L	10	03/16/98		206-44-0		
Pyrene	N		ug/L	10	03/16/98		129-00-0		
KG COH 002589					28				

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Pace Sample No:	85173920			Date Collec	cted:	03/04/98		Matrix:	Wate
Client Sample ID:	HWPW-P-10-3	LSA98	•	Date Recei	ived:	03/05/98			
Parameters		Results	Units	PRL	Anal yze	d Analys	t CAS#	Footno	tes
					•••••	• •••••	•••••	•••••	
Benzo(a)anthracene		ND	ug/L	10	03/16/9	8 VHEB	56-55-3		
Chrysene		ND	ug/L	10	03/16/9	8 VHEB	218-01-9		
bis(2-Ethylhexyl)p	hthalate	ND .	ug/L	10	03/16/9	8 VHEB	117-81-7		
Benzo(a)pyrene		ND	ug/L	10	03/16/9	8 VHEB	50-32-8		
1.2-Diphenylhydraz	ine	ND	ug/L	10	03/16/9	8 VHEB	122-66-7		
Nitrobenzene-d5 (S)	46	*		03/16/98	8 VHEB	4165-60-0		
2-Fluorobiphenyl (S)	47	*		03/16/9	8 VHEB	321-60-8		
Phenol-d6 (S)		22	X		03/16/9	8 VHEB	13127-88-3		
2-Fluorophenol (S)		14	X		03/16/9	8 VHEB	367-12-4		1
2,4,6-Tribromophen	o1 (S)	55	X		03/16/9	8 VHEB	118-79-6		
Terphenyl-d14 (S)		95	*		03/16/9	8 VHEB	1718-51-0		
Date Extracted					03/10/9	8			

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Pace Project Number: 851674 Client Project ID: HWPW

Pace Sample No:	85173938			Date Collec		03/04/98		Matrix:	Wate
Client Sample ID:	HWPW-P-11-1SAS	8		Date Recei	ved:	03/05/98			
Parameters .	Re	sults	Units	PRL	Analyze	d Analyst	: CAS#	Footno	tes
			• • • • • • • • • • • • • • • • • • • •	•••••	• • • • • • • • • • • • • • • • • • • •				••••
GC/MS VOA									
GC/MS VOCs. RCRA		Method	i: EPA 8260			Prep Me	ethod: EPA	8260	
Methylene Chloride	NE)	ug/L	5	03/16/9	8 NZAI	75-09-2		
Benzene	NC)	ug/L	5	03/16/9	8 NZAI	71-43-2		
1.2-Dichloroethane	NC)	ug/L	5	03/16/9	8 NZAI	107-06-2		
Toluene	NE)	ug/L	5	03/16/9	8 NZAI	108-88-3		
Ch1 orobenzene	NC)	ug/L	5	03/16/9	8 NZAI	108-90-7		
Ethylbenzene	NC)	ug/L	5	03/16/9	8 NZAI	100-41-4		
Xylene (Total)	NC)	ug/L	5	03/16/9	8 NZAI -	1330-20-7	,	
Dibromofluoromethan	e (S) 10	8	X		03/16/9	8 NZAI	1868-53-7	,	
Toluene-d8 (S)	98	3	×		03/16/9	8 NZAI	2037-26-5	,	
4-Bromofluorobenzer			x		03/16/9	8 NZAI	460-00-4		
GC/MS Semi-VOA									
Semivolatile Organics	. Water	Method	i: EPA 8270				ethod: EPA	3520	
Phenol	N)	ug/L	10	03/16/9		108-95-2		
Nitrobenzene	NO)	ug/L	10	03/16/9		98-95-3		
2.4-Dimethylphenol	N)	ug/L	10	03/16/9	8 VHEB	105-67-9		
bis(2-Chloroethoxỳ)	methane NO)	ug/L	10	03/16/9	8 VHEB	111-91-1		
Naphthalene	NO)	ug/L	10	03/16/9	8 VHEB	91-20-3		
2-Methylnaphthalene	e NE).	ug/L	10	03/16/9	8 VHEB	91-57-6		
2-Chloronaphthalene	e NO)	ug/L	10	03/16/9	8 VHEB	91-58-7		
Acenaphthylene	N)	ug/L	10	03/16/9	8 VHEB	208-96-8		
2.6-Dinitrotoluene	NE)	ug/L	10	03/16/9	8 VHEB	606-20-2		
Acenaphthene	2:	3	ug/L	10	03/16/9		83-32-9		
4-Nitrophenol	N)	ug/L	50	03/16/9		100-02-7		
Dibenzofuran	N)	ug/L	10	03/16/9	8 VHEB	132-64-9		
2.4-Dinitrotoluene	N)	ug/L	10	03/16/9	8 VHEB	121-14-2		
Fluorene	14	\$	ug/L	10	03/16/9	8 VHEB	86-73-7		
4.6-Dinitro-2-methy	/1pheno1 N)	ug/L	50	03/16/9	8 VHEB	534-52-1		
N-Nitrosodiphenylar	nine Ni)	ug/L	10	03/16/9	8 VHEB	86-30-6		
Pentachlorophenol	N)	ug/L	50	03/16/9	8 VHEB	87-86-5		
Phenanthrene	N)	ug/L	10	03/16/9	8 VHEB	85-01-8		
Anthracene	N)	ug/L	10	03/16/9		120-12-7		
Di-n-butylphthalate	e Ni)	ug/L	10	03/16/9		84-74-2		
Fluoranthene	N	כ	ug/L	10	03/16/9		206-44-0		
Pyrene	N	ס	ug/L	10	03/16/9	8 VHEB	129-00-0		
KG COH 002591					30				

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Pace Sample No: Client Sample ID:	85173938 HWPW-P-11-	1SA98	4.	Date Collect Date Recei		/04/98 /05/98		Matrix:	Water
Parameters		Results	Units	PRL	Anal yzed	Analys	t CAS#	Footn	otes
Benzo(a)anthrace		ND	ug/L	10	03/16/98	VHEB	56-55-3		
Chrysene	ii e	ND	ug/L	10	03/16/98	VHEB	218-01-9		
bis(2-Ethylhexyl)ohthalate	ND	ug/L	10	03/16/98	VHEB	117-81-7		
Benzo(a)pyrene		ND	ug/L	10	03/16/98	VHEB	50-32-8		
1.2-Diphenylhydr	razine	ND	ug/L	10	03/16/98	VHEB-	122-66-7		
Nitrobenzene-d5		44	*		03/16/98	VHEB	4165-60-0		
2-Fluorobiphenyl	(S)	51	X .	-01 -	03/16/98	VHEB	321-60-8		
Pheno1-d6 (S)		24	*		03/16/98	VHEB	13127-88-3	3	
2-Fluorophenol	(S)	18	x		03/16/98	VHEB	367-12-4		
2,4,6-Tribromoph	nenol (S)	55	X		03/16/98	VHEB	118-79-6		
Terphenyl-d14 (S		74	X		03/16/98	VHEB	1718-51-0		
Date Extracted					03/10/98				

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Pace Project Number: 851674 Client Project ID: HWPW

Pace Sample No:	85173946			Date Collec		3/04/98 3/05/98		Matrix:	Water
Client Sample ID:	HWPW-P-12-15/	198		Date Recei					
Parameters	f	Results	Units	PRL	Anal yzed	Analyst	: CAS#	Footno	tes
			•••••	•••••		••••			
GC/MS VOA									
GOTIS VOIL									
GC/MS VOCs. RCRA		Method	: EPA 8260			•	thod: EPA	8260	
Methylene Chloride	1	ND .	ug/L	5	03/17/98		75-09-2		
Benzene	1	ON	ug/L	5	03/17/98		71-43-2		
1.2-Dichloroethane	1	ND	ug/L	5	03/17/98		107-06-2		
Toluene	1	ND	ug/L	5	03/17/98		108-88-3		
Chlorobenzene	i	ND	ug/L	5	03/17/98		108-90-7		
Ethylbenzene		ND	ug/L	5	03/17/98		100-41-4		
Xylene (Total)	11	ND	ug/L	5	03/17/98		1330-20-7		
Dibromofluoromethan	e (S)	101	x		03/17/98		1868-53-7		
Toluene-d8 (S)		97	X		03/17/98		2037-26-5		
4-Bromofluorobenzer	ne (S)	101	*		03/17/98	NZAI	460-00-4		
GC/MS Semi-VOA									
Semivolatile Organics	. Water	Method	: EPA 8270			Prep M	ethod: EPA	3520	
Phenol		DM	ug/L	10	03/20/98		108-95-2		
Nitrobenzene		ND	ug/L	10	03/20/98		98-95-3		
2.4-Dimethylphenol		ND	ug/L	10	03/20/98		105-67-9		
bis(2-Chloroethoxy)	methane	ND	ug/L	10	03/20/9		111-91-1		
Naphthalene		ND	ug/L	10	03/20/9		91-20-3		
2-Methylnaphthalene	9	ND	ug/L	10	03/20/9		91-57-6		
2-Chloronaphthalen		ND	ug/L	10	03/20/9		91-58-7		
Acenaphthylene		ND	ug/L	10	03/20/9	B VHEB	208-96-8		
2.6-Dinitrotoluene		ND	ug/L	. 10	03/20/9	8 VHEB	606-20-2		
Acenaphthene		ND	ug/L	10	03/20/9	8 VHEB	83-32-9		
4-Nitrophenol		ND	ug/L	50	03/20/9	8 VHEB	100-02-7		
Dibenzofuran		ND	ug/L	10	03/20/9	8 VHEB	132-64-9		
2.4-Dinitrotoluene		ND	ug/L	10	03/20/9	8 VHEB	121-14-2	•	
Fluorene		ND	ug/L	10	03/20/9	8 VHEB	86-73-7		
4.6-Dinitro-2-meth	vlohenol	ND	ug/L	50	03/20/9	8 VHEB	534-52-1		
N-Nitrosodiphenyla		ND	ug/L	10	03/20/9	8 VHEB	86-30-6		
Pentachlorophenol		ND	ug/L	50	03/20/9	8 VHEB	87-86-5		
Phenanthrene		ND	ug/L	10	03/20/9	8 VHEB	85-01-8		
Anthracene		ND	ug/L	10	03/20/9	8 VHEB	120-12-7		
Di-n-butylphthalat	e	ND	ug/L	10	03/20/9	8 VHEB	84-74-2		
Fluoranthene	-	ND	ug/L	10	03/20/9	8 VHEB	206-44-0		
Pyrene		ND	ug/L	10	03/20/9	8 VHEB	129-00-0		
KG COH 002593					32				

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REPORT OF LABORATORY ANALYSIS

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Pace Sample No:	85173946			Date Collec	ted: (03/04/98		Matrix: Water
Client Sample ID:	HWPW-P-12-	1SA98		Date Recei	ved:	03/05/98		
Parameters		Results	Units	PRL	Anal yzed	d Analys	t CAS#	Footnotes
Benzo(a)anthracene	:	ND	ug/L	10	03/20/98	B VHEB	56-55-3	********
Chrysene		ND	ug/L	10	03/20/98	B VHEB	218-01-9	
bis(2-Ethylhexyl)p	hthalate	ND	ug/L	10	03/20/98	8 VHEB	117-81-7	
Benzo(a)pyrene		ND	ug/L	10	03/20/98	8 VHEB	50-32-8	
1.2-Diphenylhydraz	ine	ND	ug/L	10	03/20/98	8 VHEB	122-66-7	
Nitrobenzene-d5 (S)	55	x		03/20/98	B VHEB	4165-60-0	
2-Fluorobiphenyl (S)	72	x		03/20/98	8 VHEB	321-60-8	
Phenol-d6 (S)		6	X		03/20/98	8 VHEB	13127-88-3	2
2-Fluorophenol (S)		8	X		03/20/98	8 VHEB	367-12-4	2
2,4,6-Tribromophen	o1 (S)	34	x		03/20/98	8 VHEB	118-79-6	
Terphenyl-d14 (S)		68	x		03/20/98	B VHEB	1718-51-0	
Date Extracted					03/10/98	8		

Tel: 281-488-1810 Fax: 281-488-4661

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Pace Project Number: 851674 Client Project ID: HWPW

	85173953 HWPW-EB-01-1SA9	8			3/04/98 3/05/98		Matrix:	Wate
Parameters	Res	ults Units	PRL	Analyzed	i Analyst	CAS#	Footno	otes
GC/MS VOA								
GC/MS VOCs, RCRA		Method: EPA 8	2260		Dren Ma	thod: EP/	8260	
Methylene Chloride	ND	ug/L	5	03/16/98		75-09-2	0200	
			5	03/16/98		71-43-2		
Benzene 1.2-Dichloroethane	ND	ug/L	5	03/16/98		107-06-2		
·	ND	ug/L				108-88-3		
Toluene	ND	ug/L	5	03/16/98				
Chlorobenzene	ND	ug/L	5	03/16/98		108-90-7		
Ethylbenzene	ND	ug/L	5	03/16/98		100-41-4		
Xylene (Total)	ND	ug/L	5	03/16/98		1330-20-7		
Dibromofluoromethan				03/16/98		1868-53-7		
Toluene · d8 (S)	96	*		03/16/98		2037-26-5)	
4-Bromofluorobenzen	e (S) 98	X		03/16/98	B NZAI	460-00-4		
GC/MS Semi-VOA								
Semivolatile Organics	. Water	Method: EPA 8			•	thod: EPA	3520	
Phenol	ND	ug/L	10	03/23/98		108-95-2		
Nitrobenzene	ND	ug/L	10	03/23/98		98-95-3		
2.4-Dimethylphenol	ND	ug/L	10	03/23/98	VHEB	105-67-9		
bis(2-Chloroethoxỳ)	methane ND	ug/L	10	03/23/98	S VHEB	111-91-1		
Naphthalene	ND	ug/L	10	03/23/98	VHEB	91-20-3		
2-Methylnaphthalene	. ND	ug/L	10	03/23/98	VHEB	91-57-6	•	
2-Chloronaphthalene	ND	ug/L	10	03/23/98	3 VHEB	91-58-7		
Acenaphthylene	ND	ug/L	10	03/23/98		208-96-8		
2,6-Dinitrotoluene	ND	ug/L	10	03/23/98	VHEB	606-20-2		
Acenaphthene	ND	ug/L	10	03/23/98	S VHEB	83-32-9		
4-Nitrophenol	ND	ug/L	50	03/23/98	3 VHEB	100-02-7		
Dibenzofuran	ND	ug/L	10	03/23/98	S VHEB	132-64-9		
2,4-Dinitrotoluene	ND	ug/L	10	03/23/98	VHEB .	121-14-2		
Fluorene	ND	ug/L	10	03/23/98	VHEB	86-73-7		
4.6-Dinitro-2-methy	1pheno1 ND	ug/L	50	03/23/98	VHEB	534-52-1		
N-Nitrosodiphenylam	rine ND	ug/L	10	03/23/98	S VHEB	86-30-6		
Pentachlorophenol	ND	ug/L	50	- 03/23/98		87-86-5		
Phenanthrene	ND	ug/L	10	03/23/98		85-01-8		
Anthracene	ND	ug/L	10	03/23/98		120-12-7		
Di-n-butylphthalate		ug/L	10	03/23/98		84-74-2		
Fluoranthene	ND	ug/L	10	03/23/98		206-44-0		
Pyrene	ND	ug/L	10	03/23/98		129-00-0		
KG COH 002595				34				

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Pace Sample No: :lient Sample ID:	85173953 HWPW-EB-01	-1SA98		Date Colle Date Rece)3/04/98)3/05/98		Matrix:	Water
Parameters .		Results	Units	PRL	Anal yzed	i Analys	t CAS#	Footno	tes
Benzo(a)anthracene	· · · · · · · · · · · · · · · · · · ·	ND	ug/L	10	03/23/98	VHEB	56-55-3	*****	••••
Chrysene		ND	ug/L	10	03/23/98	VHEB	218-01-9		
bis(2-Ethylhexyl)p	hthalate	ND	ug/L	10	03/23/98	VHEB	117-81-7		
Benzo(a)pyrene		ND	ug/L	10	03/23/98	VHEB	50-32-8		
1.2-Diphenylhydraz	rine	ND	ug/L	10	03/23/98	VHEB	122-66-7		
Nitrobenzene-d5 (S	5)	41	x		03/23/98	VHEB	4165-60-0		
2-Fluorobiphenyl ((S)	49	×		03/23/98	VHEB	321-60-8		
Phenol-d6 (S)		9	x		03/23/98	VHEB	13127-88-3	}	2
2-Fluorophenol (S)		12	X		03/23/98	VHEB	367-12-4		
2,4,6-Tribromopher	101 (S)	18	X		03/23/98	VHEB	118-79-6		
Terphenyl-d14 (S)		68	x		03/23/98	VHEB .	1718-51-0		
Date Extracted					03/10/98	}			

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Pace Project Number: 851674 Client Project ID: HWPW

Pace Sample No:	85173961			Date Collec		3/04/98		Matrix:	Water
Client Sample ID:	HWPW-TB-01	·1SA98	·	Date Recei	ived: (3/05/98			
Parameters		Results	Units	PRL	Anal yzed	l Analys	t CAS#	Footno	otes
•••••			•••••	•••••	•••••	• • • • • •			• • • • •
GC/MS VOA									
GC/MS VOCs. RCRA		Metho	d: EPA 8260			Prep M	ethod: EPA	8260	
Methylene Chloride		ND	ug/L	5	03/16/98	NZAI.	75-09-2		
Benzene		ND	ug/L	5	03/16/98	NZAI	71-43-2		
1,2-Dichloroethane		ND .	ug/L	5	03/16/98	NZAI	107-06-2		
Toluene		ND	ug/L	5	03/16/98	NZAI	108-88-3		
Chlorobenzene		ND	ug/L	5	03/16/98	NZAI	108-90-7		
Ethylbenzene		ND	ug/L	5	03/16/98	NZAI	100-41-4		
Xylene (Total)		ND	ug/L	5	03/16/98	NZAI	1330-20-7	,	
Dibromofluorometha	ne (S)	100	*		03/16/98	NZAI	1868-53-7	•	
Toluene-d8 (S)		98	x		03/16/98	NZAI	2037-26-5	j	

03/16/98 NZAI

460-00-4

4-Bromofluorobenzene (S)

100

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Pace Project Number: 851674 Client Project ID: HWPW

PARAMETER FOOTNOTES

10	Not Detected	
NC	Not Calculable	
PRL	Pace Reporting Limit	
S) .	Surrogate	
[1]	Acid surrogate recovery outside of control limits. The data was accepted based on valid recovery of acid's surrogate.	remaining two
2]	The surrogate recovery was outside QC acceptance limits due to matrix interference.	
3]	Surrogate recovery could not be quantified due to matrix interference.	,

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_RM-Southwest, Inc.

16300 Katy Frwy, Suite 300

ouston. TX 77094

Pace Project Number: 851674 Client Project ID: HWPW

.ttn: Mr. Tom Pacioni rhone: 281-579-8999

C Batch ID: 3663

QC Batch Method: EPA 3520

nalysis Method: EPA 8270

Analysis Description: Semivolatile Organics, Water

85173789 85173771

85173805

Associated Pace Samples:

Pentachlorophenol

Di-n-butylphthalate KG COH 002599

benanthrene

chracene

85173763 85173839 85173797 85173862 85173854

85173813 85173870

ug/L

ug/L

ug/L

ND

ND

ND

85173847 85173896 85173904

85173920

85173938

85173953 85173946

ETHOD BLANK: 85180149 ociated Pace Samples: 85173805 85173813 85173839 85173797 85173771 85173789 85173763 85173904 85173920 85173896 85173870 85173862 85173847 85173854 85173946 85173953 85173938 Method B1 ank Footnotes **PRL** Result Units rarameter ND 10 ug/L henol ND 10 ug/L itrobenzene 10 ND ug/L 2.4-Dimethylphenol 10 ND ug/L is(2-Chloroethoxy)methane 10 ND ug/L aphthalene 10 ND ug/L 2-Methylnaphthalene 10 ND ug/L ?-Chloronaphthalene 10 ND ug/L cenaphthylene 10 ND ug/L 2.6-Dinitrotoluene 10 ND ug/L Acenaphthene 50 ND ug/L -Nitrophenol 10 ND ug/L ibenzofuran 10 ND ug/L 2.4-Dinitrotoluene 10 ND ug/L -luorene 50 ND ug/L .6-Dinitro-2-methylphenol 10 ND ug/L N-Nitrosodiphenylamine 50 ND ug/L

10

10

10

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

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Pace Project Number: 851674 Client Project ID: HWPW

METHOD BLANK: 85180149							
ssociated Pace Samples:							
	85173763	85173771	85173789	85173797	85173805	85173813	85173839
	85173847	85173854	85173862	85173870	85173896	85173904	85173920
	85173938	85173946	85173953				
		Method					
		Blank					
2	Units	Result	PRL	Footnotes	-		
arameter	Oili C3						
Fluoranthene	ug/L	ND	10				
	ug/L	ND	10				
Pyrene							
enzo(a)anthracene	ug/L	ND	10				
_hrysene	ug/L	ND	10				
bis(2-Ethylhexyl)phthalate	ug/L	ND	10				
enzo(a)pyrene	ug/L	И́О́	10				
.2-Diphenylhydrazine	ug/L	ND	10				
Mitrobenzene-d5 (S)	z z	53					
Jorobiphenyl (S)	x	54					
nenol-d6 (S)	x	30					
2-Fluorophenol (S)	x	24		•			
2.4.6-Tribromophenol (S)	x	36					
erphenyl-d14 (S)	x	96	27				

ATRIX SPIKE & MATRIX SPIKE	DUPLICATE: 851	86260 851862	78 Spike	Matrix Spike	Spike	Matrix Sp. Dup.	Spike Dup		
arameter	Units	85173763	Conc.	Result	% Rec		% Rec	RPD	Footnotes
henol	ug/L	0	200	81.00	40.5	60.00	30.0	30	
Acenaphthene	ug/L	94.00	100	162.0	68.0	155.0	61.0	11	
-Nitrophenol	ug/L	0	200	165.0	82.5	135.0	67.5	20	
.4-Dinitrotoluene	ug/L	0	100	119.0	119	114.0	114	4	
entachlorophenol	ug/L	0	200	206.0	103	207.0	104	0	
yrene	ug/L	0	100	86.00	86.0	87.00	87.0	1	
itrobenzene-d5 (S)	-				53		38		
-Fluorobiphenyl (S)					58		50		
Phenol·d6 (S)					32		22		
?-Fluorophenol (S)					26		14		1
4,6-Tribromophenol (S)					56		54		
erphenyl-d14 (S)				•	73		80		

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LABORATORY CONTROL SAMPLE:	85180156				
		Spike	LCS	Spike	
Parameter	Units	Conc.	Result	% Rec	Footnotes
	•••	• • • • •		• • • • •	• • • • • • • • • • • • • • • • • • • •
Phenol	ug/L	200	140.0	70.0	
Acenaphthene	ug/L	100	74.00	74.0	
4-Nitrophenol	ug/L	200	29.00	14.5	
2.4-Dinitrotoluene	ug/L	100	93.00	93.0	
Pentachlorophenol	ug/L	200	280.0	140	
³ yrene	ug/L	100	92.00	92.0	

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ERM-Southwest, Inc. 16300 Katy Frwy, Suite 300 douston, TX 77094 Pace Project Number: 851674 Client Project ID: HWPW

kttn: Mr. Tom Pacioni Phone: 281-579-8999

IC Batch ID: 3824

QC Batch Method: EPA 8260

unalysis Method: EPA 8260

Analysis Description: GC/MS VOCs, RCRA

Associated Pace Samples:

85173920

85173961

METHOD BLANK: 85191757

Associated Pace Samples:

	Ł	35173920	Method Blank		
ameter		Units	Result	PRL	Footnotes
Methylene Chloride		ug/L	ND	5	
oenzene enzene		ug/L	ND	5	
.2-Dichloroethane		ug/L	ND	5	
roluene		ug/L	ND	5	
Chlorobenzene		ug/L	ND	5	
thylbenzene		ug/L	ND	5	
ylene (Total)		ug/L	ND	5	
Dibromofluoromethane (S)	x	92		
Toluene-d8 (S)		x	100		
-Bromofluorobenzene (S)	X	102		

ATRIX SPIKE & MATRIX SPIKE D	UPLICATE: 8520	0079 852000	87	Matrix		Matrix	Spike		
Parameter	Units	85174977	Spike Conc.	Spike Result	•	Sp. Dup. Result	Dup % Rec	RPD	Footnotes
				• • • • • • • • • • • • • • • • • • • •					
enzene	ug/L	0	50	49.29	98.6	46.32	92.6	6	
Toluene	ug/L	0	50	46.31	92.6	44.42	88.8	4	
îhlorobenzene	ug/L	0	50	44.30	88.6	44.28	88.6	0	
ibromofluoromethane (S)				•	103		96		
Toluene-d8 (S)					94		96		
4-Bromofluorobenzene (S)					94		95		

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Pace Project Number: 851674 Client Project ID: HWPW

LABORATORY CONTROL SAMP	LE: 85190130				
		Spike	LCS	Spike	
'arameter	Units	Conc.	Result	% Rec	Footnotes
Renzene	ug/L	20	19.84	99.2	
oluene	ug/L	20	18.75	93.8	
Chlorobenzene	ug/L	20	18.97	94.9	
ABORATORY CONTROL SAMP	LE: 85191062				
20010110111		Spike	LCS	Spike	
^arameter	Units	Conc.	Result		Footnotes
Benzene	ug/L	50	45.57	91.1	
Toluene	ug/L	50	45.37	90.7	
hlorobenzene	ug/L	50	46.80	93.6	
CORATORY CONTROL SAMP	LE: 85191575				
		Spike	LCS	Spike	
Parameter	Units	Conc.	Result	% Rec	Footnotes
enzene	ug/L	60	63.21	105	
roluene	ug/L	60	63.51	106	
Chlorobenzene	ug/L	60	62.41	104	
LABORATORY CONTROL SAMP	10. 00101765				
LABORATORY CONTROL SAMP	LE: 0319170J	Spike	LCS	Spike	
arameter	Units	Conc.	Result	•	Footnotes
a. unccci				••••	•••••
^p enzene	ug/L	60	60.00	100	
oluene	ug/L	60	54.00	90.0	
chlorobenzene	ug/L	60	57.00	95.0	
ADDRATION CONTROL CAMP	4.F. 05000001	11-1			
ABORATORY CONTROL SAMP	FF: 92500001	Spike	LCS	Spike	
arameter	Units	Conc.	Result	* Rec	Footnotes
					•••••
Benzene	ug/L	50	45.86	91.7	
Toluene	ug/L	50	42.06	84.1	
orobenzene .	ug/L	50	42.45	84.9	

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ERM-Southwest. Inc.

16300 Katy Frwy. Suite 300

Houston, TX 77094

Pace Project Number: 851674 Client Project ID: HWPW

Attn: Mr. Tom Pacioni Phone: 281-579-8999

C Batch ID: 3942

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: GC/MS VOCs. RCRA

Associated Pace Samples:

85173805

85173839 85173847

METHOD BLANK: 85191666 Associated Pace Samples:

	851/3805	85173839 Method Blank	85173847	
meter	Units	Result	PRL	Footnotes
Methylene Chloride	ug/L	ND	5	
Benzene	ug/L	ND	5	
2-Dichloroethane	ug/L	ND	5	
oluene	ug/L	ND	5	
Chlorobenzene	ug/L	ND	5	
:thy1benzene	ug/L	ND	5	
<pre>.ylene (Total)</pre>	ug/L	ND	5	
Dibromofluoromethane (S)	108	-	
Toluene-d8 (S)	*	96		•
Bromofluorobenzene (S) <u>Y</u>	106		

MATRIX SPIKE & MATRIX SPIK	E DUPLICATE: 852	200509 852005	17	Matrix		Matrix	Spike		
Parameter	Units	85141935	Spike Conc.	Spike Result	•	Sp. Dup. Result	Dup % Rec	RPD	Footnotes
enzene	ug/L	0	40	39.52	98.8	42.46	106	7	•••••••
Toluene	ug/L	0	40	36.83	92.1	39.14	97.9	6	
îhlorobenzene	ug/L	0	40	35.14	87.9	37.29	93.2	6	
ibromofluoromethane (S)					96		100		
ioluene-d8 (S)					97		98		
4-Bromofluorobenzene (S)					93		94		

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LABORATORY CONTROL SAMP	LE: 85191591					
		Spike	LCS	Spike		
Parameter	Units	Conc.	Result	✗ Rec	Footnotes	
	•••••	• ••••••	•••••		•••••	
Benzene	ug/L	50	56.00	112		
Toluene	ug/L	50	56.00	112		
Chlorobenzene	ug/L	50	57.00	114	·	
ABORATORY CONTROL SAMP	F. 95101674					
ADOKATOKI CONTKUL SAMP	FE: 031310/4	Spike	LCS	Spike		
Parameter	Units	Conc.			Footnotes	
	UILLS			* VEC		
Benzene	ug/L	50	53.00	106		
Toluene	ug/L	50	50.00	100		
		50	55.00	110		
Chlorobenzene	ug/L	20	33.00			
Chlorobenzene	ug/L	50	33.00	110		
ORATORY CONTROL SAMP						
		Spike Conc.	LCS Result	Spike % Rec	Footnotes	
ORATORY CONTROL SAMP	LE: 85191716 Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes	
ORATORY CONTROL SAMP	LE: 85191716 Units ug/L	Spike Conc.	LCS Result	Spike % Rec	Footnotes	
ORATORY CONTROL SAMP Parameter Senzene Toluene	LE: 85191716 Units ug/L ug/L	Spike Conc.	LCS Result 48.11 51.30	Spike	Footnotes	
ORATORY CONTROL SAMP	LE: 85191716 Units ug/L	Spike Conc.	LCS Result	Spike % Rec	Footnotes	
ORATORY CONTROL SAMP	LE: 85191716 Units ug/L ug/L ug/L ug/L	Spike Conc.	LCS Result 48.11 51.30	Spike	Footnotes	
ORATORY CONTROL SAMP	LE: 85191716 Units ug/L ug/L ug/L ug/L	Spike Conc.	LCS Result 48.11 51.30	Spike	Footnotes	
ORATORY CONTROL SAMP	LE: 85191716 Units ug/L ug/L ug/L ug/L	Spike Conc. 50 50	LCS Result 48.11 51.30 49.50	Spike	Footnotes	
ORATORY CONTROL SAMP	LE: 85191716 Units ug/L ug/L ug/L ug/L Units LE: 85200491	Spike Conc. 50 50 50	LCS Result 	Spike		
ORATORY CONTROL SAMP	Units Units ug/L ug/L ug/L ug/L	Spike Conc. 50 50 50 50	LCS Result	Spike		

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RM-Southwest. Inc. 16300 Katy Frwy, Suite 300 "ouston, TX 77094

Pace Project Number: 851674 Client Project ID: HWPW

ttn: Mr. Tom Pacioni .hone: 281-579-8999

C Batch ID: 4107

QC Batch Method: EPA 8260

nalysis Method: EPA 8260

Analysis Description: GC/MS VOCs, RCRA

Associated Pace Samples:

85173789 85173797

85173896

85173854

85173813 85173904

85173938

85173862 85173953

METHOD BLANK: 85199792

ssociated Pace Samples: 85173797 85173813 85173854 85173789

85173870

85173862

85173870

85173896

85173938 85173953 85173904 Method **Blank** Units Result PRL Footnotes Parameter ND 5 ethylene Chloride ug/L 5 ND ug/L uenzene 5 ND 1.2-Dichloroethane ug/L ND 5 oluene ug/L 5 ND nlorobenzene ug/L 5 ND Ethylbenzene ug/L ug/L ND Yylene (Total) X 90 ibromofluoromethane (S)

X

z

100

98

MATRIX SPIKE & MATRIX SPIKE	DUPLICATE: 8520	5615 852056	23	Matrix		Matrix	Spike		
		•	Spike	Spike	Spike	Sp. Dup.	Dup		
arameter	Units	85158897	Conc.	Result	✗ Rec	Result	✗ Rec	RPD.	Footnotes
			•••••	•••••	••••	• • • • • • • • • • • • • • • • • • • •	• • • • •		•••••
° enzene	ug/L	0	30	30.73	102	27.17	90.6	12	
oluene	ug/L	0	30	29.23	97.4	26.25	87.5	11	
Lnlorobenzene	ug/L	0	30	28.26	94.2	25.61	85.4	10	
Dibromofluoromethane (S)					109		108		
Juene-d8 (S)					98		99		
omofluorobenzene (S)					93		96		

45

KG COH 002606

foluene-d8 (S)

4-Bromofluorobenzene (S)

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,

QUALITY CONTROL DATA

DATE: 04/01/98

PAGE: 45

LABORATORY CONTROL SAMP	LE: 85199800						
		Spike	LCS	Spike			
² arameter	Units	Conc.	Result	✗ Rec	Footnotes		
Benzene	ug/L	40	39.00	97.5	•••••		
Toluene	ug/L	40	33.00	82.5			
Chlorobenzene	ug/L	40	34.00	85.0			
	23/2			33.0			
ABORATORY CONTROL SAMP	LE: 85199842					 	
		Spike	LCS	Spike			
^o arameter	Units	Conc.	Result	∦ Rec	Footnotes		
Benzene	ug/L	40	50.27	126	•••••		
Toluene	ug/L	40	46.14	115			
:hlorobenzene	ug/L	40	45.49	114			
		20					
RATORY CONTROL SAMP	LE: 85205607					 	
		Spike	LCS	Spike			•
Parameter	Units	Conc.	Result	% Rec	Footnotes		
enzene	ug/L	40	36.36	90.9	•••••		
ioluene	ug/L	40	34.63	86.6			
Chlorobenzene	ug/L	40	34.82	87.1			
	•						

> Tel: 281-488-1810 Fax: 281-488-4661

QUALITY CONTROL DATA

DATE: 04/01/98

PAGE: 46

ERM-Southwest, Inc. 16300 Katy Frwy. Suite 300

Houston, TX 77094

Pace Project Number: 851674 Client Project ID: HWPW

Attn: Mr. Tom Pacioni Phone: 281-579-8999

OC Batch ID: 4108

QC Batch Method: EPA 8260

85173771

Analysis Method: EPA 8260

Analysis Description: GC/MS VOCs. RCRA

Associated Pace Samples:

85173763

85173946

METHOD BLANK: 85199818 Associated Pace Samples:

	85173763	85173771 Method Blank	85173946	
·ameter	Units	Result	PRL	Footnotes
Methylene Chloride	ug/L	ND	5	*********
Benzene	ug/L	ND	- 5	
1.2-Dichloroethane	ug/L	ND	5	
ſoluene	ug/L	ND	5	
Chlorobenzene	ug/L	ND	5	
Ethylbenzene	ug/L	ND	5	
(ylene (Total)	ug/L	ND	5	
Dibromofluoromethane (S)	*	96		
Toluene-d8 (S)	x	98		
1-Bromofluorobenzene (S)	ž.	100		

TATRIX SPIKE & MATRIX SPIKE	DUPLICATE: 851	199875 851998	83	Matrix		Matrix	Spike		•
			Spike	Spike	Spike	Sp. Dup.	Dup		
Parameter	Units	85149219	Conc.	Result	% Rec	Result	✗ Rec	RPD	Footnotes
	• • • • • • • • • • • • • • • • • • • •		•••••		••••			••••	•••••
lenzene	ug/L	0	50	38.10	76.2	41.65	83.3	9 .	
Toluene	ug/L	0	50	43.12	86.2	44.55	89.1	3	
Chlorobenzene	ug/L	0	50	43.02	86.0	45.78	91.6	6	
hibromofluoromethane (S)	•				101		99		
ioluene-d8 (S)					98		98		
4-Bromofluorobenzene (S)					90		96		

47

> Tel: 281-488-1810 Fax: 281-488-4661

QUALITY CONTROL DATA

DATE: 04/01/98

PAGE: 47

LABORATORY CONTROL SAMPLE	E: 85199826				
		Spike	LCS	Spike	
'arameter	Units	Conc.	Result	* Rec	Footnotes
_		40	TO 07	106	
Renzene	ug/L	40	50.27	126	
oluene	ug/L	40	46.14	115	·
Chlorobenzene	ug/L	40	45.49	114	
ABORATORY CONTROL SAMPLE	LE: 85199867	Caika	100	Saika	
B	llaiba	Spike Conc.	LCS Result	Spike	Footnotes
ⁿ arameter	Units	conc.	Result	4 KEC	roctiones
Benzene	ug/L	50	42.18	84.4	
Toluene	ug/L	50	38.20	76.4	
hlorobenzene	ug/L	50	38.62	77.2	
RATORY CONTROL SAMP	F: 85200004				
WHOM COMMOD STATE		Spike	LCS	Spike	
Parameter	Units	Conc.	Result		Footnotes
enzene	ug/L	50	45.86	91.7	
oluene	ug/L	50	42.06	84.1	
Chlorobenzene	ug/L	50	42.45	84.9	

Tel: 281-488-1810

Fax: 281-488-4661

PAGE: 48

Pace Project Number: 851674 Client Project ID: HWPW

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

Not Detected

NC Not Calculable

PRL Pace Reporting Limit

:PD Relative Percent Difference

(2,

Acid surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two [1]

acid's surrogate.

CHAIN-OF-CUSTODY RECORD Analytical Request	Pace Client No.	Pace Project Manager Pace Project No	*Requested Due Date: 3/25/98	\$ 70 5 W	2000			>						ACCEPTED BY / AFFILIATION DATE TIME	Bud 7 6 1 35 180				SEE REVERSE SIDE FOR INSTRUCTIONS
	Report To: Ton PACION!	P.O. # / Billing Reference #22-09	Project Name / No.	PRESERVATIVES ANALYSES REQUEST REQUEST REQUEST	NOV (MOS PACO)	>	7 7	2 2	2	2	2	7 7	7 7 7 7 7	ITEM NUMBER RELINQUISHED BY / AFFILIATION	1 (Elferia FEW)	2 Bay d. Brown	2		SEE REVERSE SIDI
	() IF 3()	7		ONTAINERS	X PACE NO.	4	4	4 8/8/2 m 012	4 848/E m 0531	4 86/E/E 1 2191	1125 W 3/3/98 47	1218 W 3/4/98 4:	4 8P/4/8 W 12E1	SHIPMENT METHOD OUT/DATE RETURNED/DATE N					1
	HORSE 16300 KATY FOLLY SUTE 300	HUSTON, TENS 77094	ione (281)579-8999	HEISTOPHER E WENTER	MATCH LENGTH SAMPLE DESCRIPTION	1 HUAN - MW-01A-15498 1510 pater 3/3/98	2 HUPUL-MU-01A-MS-15498 1610 water 3/2/98	3 HUPW-MW-COIA-MSD-55478 1510 W	4 HWPW-MW-02-15498 1.	5 HWPW-MW-03-15A98 16	6 HWPW-MW-04-15A98 1	7 HUPW-MW-06-15APB 1:	8 HWPW-MW-07-25A98 12	COOLER NOS. BAILERS		Iditional Comments		\(\sigma\)\(\sigma\)\(\frac{1}{2}\)\(\frac{1}\)\(\frac{1}{2}\)\(\frac{1}\)\(\frac{1}\)\(\frac{1}\)\(\frac{1}\)\(\frac{1}\)\(\f	_

IN EPM-SOUTHWEST, INC.		Report To:	Tom PREIDUI	CHAIN-OF-CUSTODY RECORD Analytical Request Pace Client No.
FEBUNY, SIE 300 77094		Bill To: Town	Tow Presons Reterence 422-09	Pace Project Manager Pace Project No.
		Project Name / No.	.0.	*Requested Due Date: 325/98
3/3/98-3/4/98		PRESERVATIVES SO, OS, OS, OS, OS, OS, OS, O	ANALYSES ANALYSE ANALYSE ANALYSE ANALYSE ANALYSE ANALYSE ANALYSE ANALYSE ANALYSE ANALYSE ANALYSE ANALYSE ANALYS	
S T	on 4	iH H		REMARKS
1021	34/98 42	2	>	
1330 100 3	39/88 4 2	7	7	
357 W 3	3 4 84/98	2	7	
E m 2311	2 b 36/g/E	2	7	
1266 W 8	3/3/98 4 2	7	7	
080 W 3	3/4/98 4 2	7	7	
86/4/2 W 13/4/98		7	7	
SHIPMENT METHOD OUT/DATE RETURNED/DATE		ITEM RELINQUISH	RELINQUISHED BY / AFFILIATION ACC	ACCEPTED BY / AFFILIATION DATE TIME
		Colles	Les Mass	14 33 34 R
	• 7	2 620e &	21600	
		.0.		
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CHAIN-OF-CUSTODY RECORD Analytical Request	Pace Client No.	Pace Project Manager	Pace Project No.	*Requested Due Date: 3/25/98		DEMANAS								ACCEPTED BY / AFFILIATION DATE TIME	(ERM B 21 HP (Q) 3/ 1200	of some some for				
	Report To. TOW PACIONI	BIII TO: 10M PACIONI	P.O. #/ Billing Reference 422-09	Project Name / No.	PRESERVATIVES HOS HOS HOS HOS HOS HOS HOS H	7	2 2 2	7	2					ITEM RELINQUISHED BY / AFFILIATION	1 Chapteldon /E	2 82 1 1 2 2 1 1 2 2 1				SEE DEVEDOR
		M STE 300	74		3398-3498 TIME MATRIX PACENO.	W 1423 w 3/4/98		1989 W	1001 W 3/4/98					SHIPMENT METHOD OUT/DATE RETURNED/DATE			5,30,			
	BAN SOMWEST, HE	dress 16300 MMT/ HEEDM STE 300	HUSION, VENT I DIA	one (281) 579-8999	mpled By (PRINT): #PISTORNEE E. (1) E. 1998 mpler Signature Date Sampled Middle E. Ulynon E. M. E. M. E. M. E. M. E. M. E. M. E. M. E. M. E. M. E. M. E. M. E. M. E. M. E. M. E. M. E. M. E. E. M. 1 HUPW-P-11-15498	2 HWPW. P-12-15A98	3 HUPW-EB-01-15A99	4 HWPW-TB-01-15A98	2	9	7	8	COOLER NOS. BAILERS		ditional Comments	5367 7 47 7 GCG	()	(SD) (SD) (SD) (SD) (SD) (SD) (SD) (SD)		

CHAIN-OF-CUSTODY RECORD. Analytical Request	Pace Client No.	Pace Project Manager	Pace Project No.	*Requested Due Date: 325/98	1/// 8	0054	FEMARKS	8	_	>	12001 38		280	VQ.	186173 813 1me 080192 11/2	V	Ray I road 11		J. The , 34 Ax 14/30	2		
	Report Ton PACION!	Tom PACIOUI	P.O. #/Billing Reference +22-09	B / No.	ANALYSES / CALCAL	Noth of	10000000000000000000000000000000000000		>	>	>	7	7	7	7	RELINQUISHED BY / AFFILIATION	1957 [M 图] 注意	4	Xoulle	9	5	
		Bill To:	P.O. # / Billin	Project Name / No		E CONTAIN	X PACENO. 2	. ,	x 43/98 4 2 2	3/3/98 4 2. 2	3/3/58 4 2 2	3/3/98 42 2	3/3/48 42 2	3/4/98 4 2 2	2 4 8 4 2 2	SHIPMENT METHOD ITEM INUMBER RELINO	4 024	Des :			0 0	Ċ
	ON ERM SOUTHLEST, INC.	diess 16300 KATY FRUT, SUITE 300	HOSTON, TEXAS 77094	(281) 579-8999	mpled By (PRINT):	Mer Signature Date Sampled Date	SAMPLE DESCRIPTION TIME MATRIX	HUAND-1110-01A-15498 1510 pater 3/3/96	HUPEU- MIU-01 A - MS-15498 1610 WATER 2/3/98	HUPIU-MU-01A-MSD-55998 1510 W	HWPW-nw-02-15498 1530 W	HWPW-MW-03-15AP8 1615 W	HWPW-MW-04-15198 1125 W	41WPW-MW-05-15A98 1218 W	HWPW-MW-07-15A98 1357 W	COOLER NOS. BAILERS SHIPMEN OUTDATE		Iditional Comments		2 of 3 COC.	(1)	(4 000 7)

Pace Analytical

CHAIN-OF-CUSTODY RECORDS	Pace Client No.	Pace Project Manager	Pace Project No.	*Requested Due Date: 7/25/98			A MARANA		7	7.5%	20%	7 6%	9 796	800	ACCEPTED BY / AFFILIATION DATE TIME	-	But the to the was			**	
	TOWN PACIOUI	ON PRICE	eference 422-09	10.	ANALYSES - REQUEST -	2000 m	> >	?	>	7	7	7	7	7	RELINQUISHED BY / AFFILIATION	6 Walz/	1. Holas	21/	-	V	מים הפועהם בים
	Report To:	Bill To:	P.O. # / Billing Reference	Project Name / No.	PRESERVATIVES	NOP(HOS) HSOO NOPESEENED	2	2 2	7	2 2	2 2	2	7 2	7 7	ITEM RELINQUISH	1 colum	2 820e &	0.			C
	1	Q			INEBS	199-3/4/98 00 UP	66/4/E	34/96	३५/६/६	4 85/8/8	4 38/88 W	4 89/e/e 1	1 3/4/98 4	4 84/48 W							1
		SE 30				3/3/98-3/4/98	7 1451	1221	130 0	1357 W	2411	ME W	080 W	DE 1 14	SHIPME						
	ERIN-SOUTHWEST, INC.	M	4 40CL X1	1.8999	APPINATIONER E. WEDWAS	Date Sampled Mayara 3 SAMPLE DESCRIPTION	HURW-WW-08-15A78 AT W	HWRU - MW-09-15498	HUALU- MW-10A: 15498	HUPW- MW-10B-151198	HUPUJ - MW - 11A-15A78	HUPW' MW- 11B-15978	HUPU- 1711-999-75198 0007	10-13498	BAILERS			2083 CMS.		1200 J	
	lient EPM-Spiri	ddress (GOO M	HUETON,	100 (281) 579.8999	ampled By (PRINT):	ampler Signature	HURW-W	2 HWACU- MI	3 HUARU- MU	4 HUPW- M	5 HUPUL- MI	6 HUPW MI	7 HUPUL-M	8 HUPUV P-10-15498	COOLER NOS.		litional Col		54 OH 0	でする 1026 1026	§ 515

Pace Analytical

CHAIN-OF-CUSTODY RECORD Analytical Request 8×10393 P 946 TIME 283 196 REMARKS DATE Pace Project Manager Pace Project No. Pace Client No. ACCEPTED BY / AFFILIATION P.O. #/Billing Reference 422-09 Childre Colon - JERM 10M PACIONI REPORTO: TOM PACIONI RELINQUISHED BY / AFFILIATION Project Name / No. **PRESERVATIVES** N O N AOV OSZH NUMBER 2 4 86/4/2 HA3 W 3/4/98 4 2 2 4 84/4/8 M NAPRESERVED 2 86/4/8 m OF CONTAINERS 10 RETURNED/DATE TIME MATRIX PACENO. 8445-84EK SHIPMENT METHOD ddress 16300 MAN FREDUM SIE 300 3 2053 coch (4 actes) **OUT/DATE** 8 113 138 HRISTOPHER E. INJELINAS Inplet, Signature Date Sampled HUSION, TEXES TOGA MWPW-EB-01-15A98 HWPW. TB-01-15/198 ERM-SOTHWEST, K. HWPW. P-12-15A98 HUPLU- P-11-15A98 BAILERS Estate 2 12 privace SAMPLE DESCRIPTION PP P3-875/185) and Additional Comments ampled By (PRINT): COOLER NOS. ampler Signature S 9 KG COH 002616

SEE REVERSE SIDE FOR INSTRUCTIONS

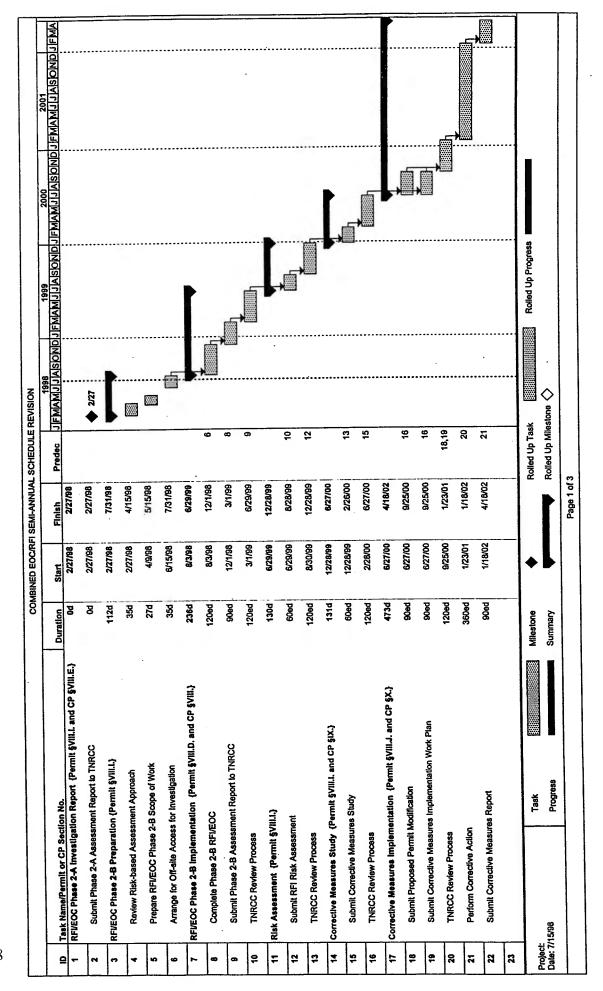
55

Updated Compliance Schedule Appendix D

July 16, 1998 W.O. #422-09

Environmental Resources Management 16300 Katy Freeway, Sinte 300 Houston, Texass 77094-161 kg (281) 579-8999

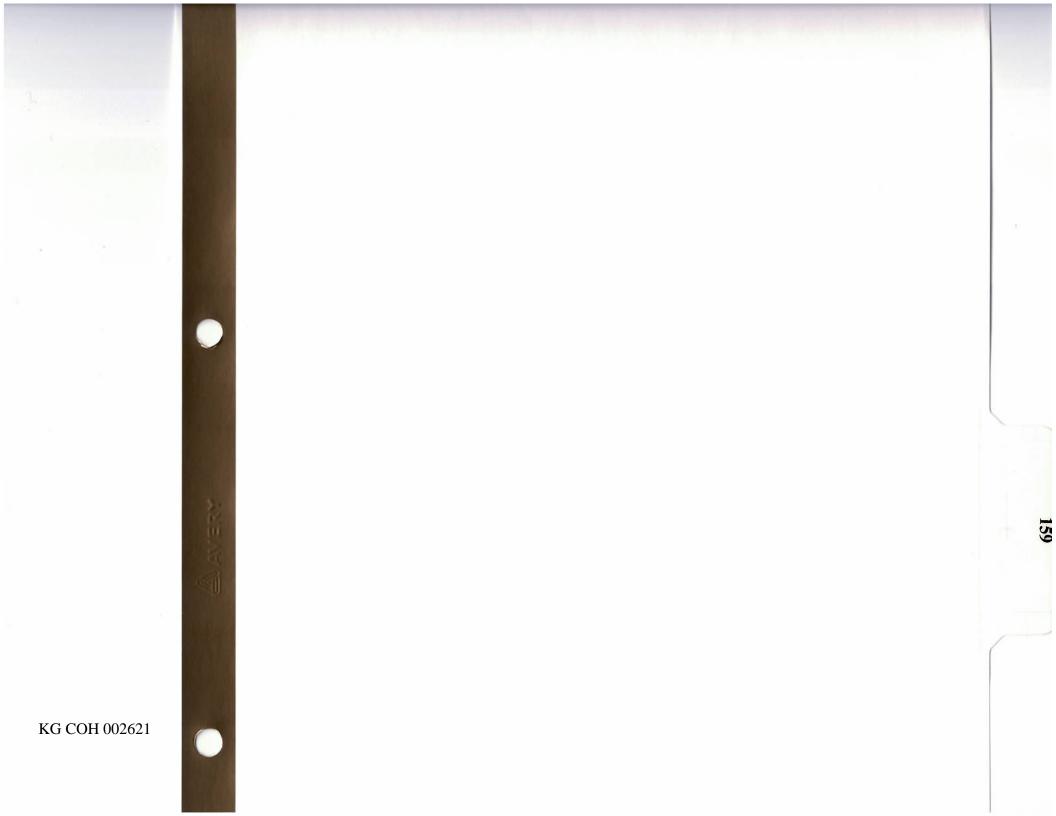
KG COH 002617



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								4008	000,	0000		-
ID Task	Task Name/Permit or CP Section No.	ction No.		Duration	Start	Finish	Predec	JEMAMIJIAISON	DJEMAMJIJASON	JEMAM J JASOND JEMAM J JASOND JEMAM I JASOND JEMAM J JASOND JEMAM J JASOND JEMAM J JASOND JEMAM J JASOND JEMAM J JASOND	JENAMI I IACH	NIC 1EN
	Compliance Activities (Permit §IV.C. and CP §VI.)	mit §IV.C. and CP §	VI:}	170d	1/7/98	12/13/00					O COUNTY ON THE	
25	Impoundment inspections (Weekly)	ons (Weekly)		P022	1/7/98	12/13/00						
180	Water Level Measurements (Monthly)	ents (Monthly)		740d	1/21/98	11/15/00						
216 h	Monitor Well Inspections (Quarterly)	ns (Quarterly)		658d	3/18/98	9/20/00		- - - - - - -	- - - - - -			•••••
228	Ground Water Sampling (Semiannual)	g (Semiannual)		P659	3/18/98	9/22/00		 - 	 - 			
235					-			<u>-</u> 	-	-		
236												••••
237 Post-	Post-Closure Care Reporting 1997 through 2000	g 1997 through 200		P999	1/21/98	7/21/00						
238	Semiannual Report - January 21, 1998 (CP §VII.B.2.)	nuary 21, 1998 (CP	» §VII.B.2.}	B	1/21/98	1/21/98						···
239	Submit Report to TNRCC	RCC		8	1/21/98	1/21/98			••••			
240	1997 Annual Report - Ja	ınuary 25, 1998 (Pe	1997 Annual Report - January 25, 1998 (Permit §V.F. and §III.B.1)	7	1/25/98	1/25/98						••••
241 S	Semiannual Report - July 21, 1998 (CP SVII.B.2.)	ly 21, 1998 (CP §VI	11.8.2.}	87d	3/20/98	7/21/98			••••			
242	Perform Data Evaluation	ugn		60ed	3/20/98	5/19/98	229	····				
243	Submit Report to TNRCC	RCC		93ed	5/18/98	7/21/98	242		••••			
244 S	Semiannual Report - January 21, 1999 (CP §VII.B.2.)	nuary 21, 1999 {CP	· §VII.B.2.}	P68	8/18/98	1/21/89		B				••••
245	Perform Data Evaluation	tlon		90ed	9/18/98	11/17/98	230		.			••••
246	Submit Report to TNRCC	RCC		65ed	11/17/98	1/21/99	245					•••••
247 11	1998 Annual Report - Ja	nuary 25, 1999 (Pe	1998 Annual Report - January 25, 1999 (Permit §V.F. and §III.B.1)	14	1/25/99	1/25/99		•••••				
248	Semiannual Report - July 21, 1999 (CP §VII.B.2.)	ly 21, 1999 {CP §VII	l.B.2.}	P88	3/19/99	7/21/99		••••				
249	Perform Data Evaluation	tlon		909 P	3/19/99	5/18/99	231	•••••				
250	Submit Report to TNRCC	RCC		64ed	5/18/99	7/21/99	249	••••				••••
251 Se	Semiannuai Report - January 21, 2000 (CP §VII.B.2.)	uary 21, 2000 {CP	§VII.B.2.}	91d	8/11/89	1/21/00		•••••				
252	Perform Data Evaluation	tion		pe09	9/17/89	11/16/99	232	•••••				•••••
Project: Date: 7/15/98		Task Progress		Milestone	٠l	1	Rolled Up Task Rolled Up Milestone		Rolled Up Progress			-
								>				

		5	BINED EUCK	COMBINED EUCHFI SEMI-ANNUAL SCHEDULE REVISION	AL SCHEDULE	REVISION	
0	Task Name/Permit or CP Section No.	Duration	Start	Finish	Predec	1998 1999 1999 1999 1999 1999 1999 1999	1998 1999 2000 2001
-	Submit Report to TNRCC	pegg	11/16/99	1/21/00	252		UDIJEMIAMIJIJAISONDIJEMIAMIJIJAISONDIJEM
752	1999 Annual Report - January 25, 1999 (Permit §V.F. and §III.B.1)	14	1/25/00	1/25/00			
255	Semiannual Report - July 21, 2000 {CP §VII.B.2.}	D16	3/17/00	7/21/00			
256	Perform Data Evaluation	60ed	3/17/00	5/16/00	233		REG
257	Submit Report to TNRCC	9999	2/16/00	7/21/00			
			·				
Project:	Task	Milestone	•	æ	Rolled Up Task	Rolled Up Progress	
7/15	96 Progress	Summary		ě	Rolled Up Milestone		
				Page 3 of 3			





10025 W. Technology Blvd., Suite 147 Dallas, TX 75220 214/352-9400 FAX 214/352-3200

AMENDMENT 3 TO OPERATION AND MAINTENANCE PLAN FOR GROUNDWATER MONITORING AND RECOVERY SYSTEM

Southern Pacific Transportation Company
Wood Preserving Works
4910 Liberty Road
Houston, Texas

Post-Closure Care Permit No. HW-50343-000 Industrial Solid Waste Registration No. 31547 EPA ID No. TXD000820266

IC Project No. 44102069

Prepared For:

Southern Pacific Lines One Market Plaza San Francisco, California 94105

June 23, 1995



AMENDMENT 3 TO OPERATION AND MAINTENANCE PLAN FOR GROUNDWATER MONITORING AND RECOVERY SYSTEM

Southern Pacific Transportation Company Wood Preserving Works 4910 Liberty Road Houston, Texas

Post-Closure Care Permit No. HW-50343-000 Industrial Solid Waste Registration No. 31547 EPA ID No. TXD000820266

Prepared By:

Elaine J. Hanford Technical Manager

Approved by:

Curtis L. Jones

Project Manager

QUARTERLY WELL INSPECTION CHECKLIST

FACI:	LITY:		
WELL	NUMBER/LOCATION:		
INSP	ECTOR:	DATE:	
TIME	(START):	TIME (END): _	
1.	Is well access clear a	and properly maintained?	
	YES	NO	COMMENT
2.	Is well area free of s	tanding water or eroded	areas?
	YES	NO	COMMENT
3.	Are required placards,	notices, and instructio	ns present and legible?
,	YES	NO	COMMENT
4.	Are safety barrier pipe	es in place and in good	repair?
	YES	NO	COMMENT
5.	Is concrete pad at well	l base in good repair and	free of cracks?
	YES	NO	COMMENT
6.	Is soil around base of	concrete pad eroded?	
	YES	NO	COMMENT
7.	Are insect nests or ani	mal burrows beneath or a	round the concrete pad?
	YES	NO	COMMENT
8.	Is wellhead protective	collar in good repair?	
	YES	NO	COMMENT
9.	Are well collar marking	s present and visible?	
	YES	NO	COMMENT

10.	Is wellhead cap in pla	ace and in good repair?	
	YES	NO	COMMENT
11.	Is wellhead cap locked	đ?	
	YES	NO	COMMENT
12.	Is wellhead cap vent o	open and unobstructed?	
	YES	NO	COMMENT
13.	Is well casing integri	ty intact and is casing	g in good repair?
	YES	NO	COMMENT
Comme	nts:		
Signa	ture of Inspector:		
Signa	ture of Reviewer:		
Date o	of Review:	W	
Descr:	iption of Recommended Co	orrective Actions:	
Corre	ctive Action Approval:		
Date o	of Approval:		
Correc (Signa	ctive Actions Completed: ature and Date)	:	

WEEKLY SURFACE IMPOUNDMENT INSPECTION CHECKLIST

FACII	ITY:	-			
INSPE	CTOR:		DATE:		
TIME	(START):		TIME (END):		
_	- · · · · · · · · · · · · · · · · · · ·				
1.	Is impoundment cover fr	ree or (erosion?		<u> </u>
	YES	МО		COMMENT	
2.	Is there any evidence of	of wood	y vegetation growt	h?	
	YES	NO		COMMENT	·
3.	Is there any evidence of	of dead	or distressed veg	etation?	
	YES	NO		COMMENT	
4.	Is cover vegetation are	ound we	lls trimmed to pro	per heigh	t?
	YES	NO [COMMENT	
5.	Is there any evidence of	of anima	al or insect burro	ws?	
	YES	NO		COMMENT	
6.	Is the area free of star ponding?	nding o	r ponded water, inc	cluding re	ecent evidence of
	YES	NO [COMMENT	
7.	Is the perimeter fence	breach	ed or damaged in a	ny way?	•
	YES	NO		COMMENT	·
8.	Are fence posts upright	:?			
	YES	ио		COMMENT	
9.	Is fencing mesh sagging	33			
	YES	МО		COMMENT	
10.	Is there any evidence	of exca	vation or erosion	under fen	cing?
	YES	ои		COMMENT	

KG COH 002626

Amendment 3 - June 23, 1995

Page 1 of 3



11.	Are warning signs on fe	ncing	posted,	legible, or in good condition?
	YES	NO		COMMENT
12.	Are satellite storage exceeded 55 gallons at a through 12h must be ans	any or	ne satell	sed for storage or has accumulation ite location? If YES, then items 12a
	YES	NO		COMMENT
12a.	Has container(s) holdin date of excess accumula	g exc ation?	ess amou	nt been clearly marked with beginning
	YES	МО		COMMENT
12b.	Have excess amounts redays?	maine	d in sat	ellite area for more than three (3)
	YES	NO		COMMENT
12c.	Are containers compatib	ole wi	ith the n	material contained for storage?
	YES	NO		COMMENT
12d.	Are the satellite store	age di	cums in 9	good condition?
	YES	NO		COMMENT
12e.	Are the satellite stor removing waste)?	age o	drums sec	curely closed (except when adding or
	YES	МО		COMMENT
12f.	Are the satellite sto spills?	rage	drum are	eas free from evidence of leaks and
	YES	NO		COMMENT
12g.	Are containers marked contents?	ha:	zardous	waste" and labeled to identify the
	YES	NO		COMMENT
12h.	Can emergency equipmen	t acc	ess the	satellite drum areas?
	YES	NO		COMMENT

Comments:	
Signature of Inspector:	· · · · · · · · · · · · · · · · · · ·
Signature of Reviewer:	
Date of Review:	
Date Of Review:	
Description of Recommended Corrective Actions:	
Corrective Action Approval:	
Date of Approval:	
Corrective Actions Completed:(Signature and Date)	



SWR 31547 70 FYI

(713) 223-7539

X (713) 223-7538

SOUTHERN PACIFIC LINES

Environmental Affairs Group

913 Franklin Avenue, Houston, Texas 77002

M. H. Belco

Sr. Manager of Environmental Field Ops.

June 25, 1993

Ms. Wendy J. Rozacky
Supervisor-RCRA Ground Water Enforcement, Unit 1
Industrial and Hazardous Waste Division
Texas Water Commission
P.O. Box 13087
Austin, Texas 78711-3087

Re: Southern Pacific Transportation Company (SPTCo)
Post-Closure Care Permit No. HW-50343-000
Industrial Solid Waste Registration No. 31547
Post-Closure Care Quarterly Groundwater Monitoring Report

Dear Ms. Rozacky:

Enclosed are the analytical results for the first quarterly groundwater monitoring report for 1993. This report is in compliance with SPTCo's RCRA Part B Post-Closure Care Permit application and Groundwater Compliance Plan.

Please contact me at (713) 223-7539 with questions or requests for additional information.

Best Regards,

Michell HBelco Michelle H. Belco

enclosures

TWC cc: Dr. Ata-Ur-Rahman, Groundwater Team Leader

Mr. Robert Brydson, Permits Section Industrial and Hazardous Waste Division Mr. Richard Clarke, Leader, Closure Team

Corrective Action Section

Ms. Susan Bredehoeft, Program Manager

Hazardous and Solid Waste Program, District 7

SPTCo cc: G. F. Shepherd

IC cc: W. F. (Rick) Bowles

R. E. Coffman

KG COH 002629

FIRST QUARTER MONITORING WELL SUMMARY AND ANALYTICAL RESULTS SOUTHERN PACIFIC TRANSPORTATION COMPANY 4910 LIBERTY ROAD HOUSTON, TEXAS

TWC Facility I.D. No.: 31547

Prepared by:

SOUTHERN PACIFIC TRANSPORTATION COMPANY

913 Franklin Avenue Houston, Texas 77002

March 1993

On March 31, 1993, Industrial Compliance performed the first quarterly sampling of seven (7) monitoring wells at the closed surface impoundment located at Southern Pacific Transportation Company's (SPTCo) Englewood Yard, 4910 Liberty Road, Houston, Texas. The quarterly sampling was conducted as part of the post-closure care monitoring proposed in the RCRA Part B Post-Closure Care Permit application and Groundwater Compliance Plan application of May, 1991. Industrial Compliance completed this effort with assistance from SPTCo's Utility department.

Static water levels were measured in each monitoring well prior to the beginning of the sampling in order to obtain representative levels without influence from the evacuation procedure. Those static levels were obtained through the use of an electrical sounding device capable of producing measurements to a precision of 0.01 feet. The electrical sounding probe was decontaminated between well readings to prevent the possibility of cross-contamination. The probe was washed in a detergent and water solution, rinsed in fresh water, and wiped dry with a clean paper towel.

Well evacuation was accomplished using a Grundfos Redi-Flow 2TM submersible pump. Three (3) well volumes of water were evacuated from each well prior to sampling. Wells were purged at a rate which allowed recharge water not to be excessively agitated. Total well volume calculated for each well includes both the well casing and sand pack volumes. After each evacuation, the wells were allowed to recover to 80 percent of the initial recording before a sample was taken.

Water samples from each well were collected in clean glass containers, labeled, documented, and placed directly into a chest cooled with ice. Standard chain-of-custody procedures were followed at all times. Samples were submitted to Professional Services Industries, Inc. (PSI) of Deer Park, Texas. The water samples were analyzed for volatiles by EPA method 8240 and semi-volatiles by EPA method 8270.

Purged well water was placed in DOT-approved 55-gallon drums, sealed and properly labeled for disposal pending completion of waste profiling. The submersible pump was thoroughly decontaminated between wells by cycling detergent and water, followed by fresh water rinse. Both the decon water and the purged well water, found to have no hazardous constituents above the allowed regulatory limits, were disposed of in SPTCo's Hardy Street wastewater treatment plant.

The following attachments include a summary sheet listing the groundwater monitoring constituents for each well, groundwater sampling forms, the field tracking report and results of the analytical work performed.

IST QUARTER 1993 ANALYTICAL RESULTS: SPTCo ENGLEWOOD YARD, HOUSTON, TEXAS

IC PROJECT NO.: 44101294

TWC FACILITY I.D. NO.: 21547

		1	_	_			
COMPOUND (UG/L)	MW-1	MW-2	MW-3	MW-4	MW-5	MW-7	MW-8
BENZENE	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5
CHLOROBENZENE	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5
DICHLOROMETHANE	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10
ETHYLBENZENE	14	ND<5	11	ND<5	6	ND<5	ND<5
TOLUENE	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5
XYLENES	15	ND<5	12	ND<5	15	ND<5	ND<5
ACENAPHTHENE	170	33	170	16	47	20	12
ACENAPHTHYLENE	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10
ANTHRACENE	13	ND<10	17	ND<10	ND<10	ND<10	ND<10
BENZO(A)ANTHRACENE	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10,	ND<10
BIS(2-ETHYLHEXYL)PHTHALATE	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10
CHRYSENE	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10
DIBENZOFURAN	130	26	140	ND<10	20	ND<10	ND<10
FLUORANTHENE	11	ND<10	21	ND<10	ND<10	ND<10	ND<10
FLOURENE	130	28	130	ND<10	26	ND<10	ND<10
2-METHYLNAPHTHALENE	170	ND<10	40	ND<10	42	ND<10	ND<10
NAPHTHALENE	370	47	ND<10	35	440	ND<10	50
NITROBENZENE	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10
PHENANTHRENE	100	23	100	ND<10	ND<10	ND<10	ND<10
PHENOL	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10
PYRENE	ND<10	ND<10	12	ND<10	ND<10	ND<10	ND<10
2,4-DIMETHYLPHENOL	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10
4-NITROPHENOL	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
NOTE: Concentrations repo	ted in micr	ograms p	er liter (ug]/L).			

PROJECT NUMBER: 44101294

PROJECT NAME: Englewood Yard

FIELD TRACKING REPORT NO.: One

FIELD SAMPLE CODE	BRIEF DESCRIPTION	DATE	TIME(S)	SAMPLER
04001/MW-1	Water	3/31/93	12:50 p.m.	VanCompernolle
04002/MW-2	Water	3/31/93	12:30 p.m.	VanCompernolle
04003/MW-3	Water	3/31/93	12:10 p.m.	VanCompernolle
04004/MW-4	Water	3/31/93	10:48 a.m.	VanCompernolle
04005/MW-5	Water	3/31/93	10:15 a.m.	VanCompernolle
04007/MW-7	Water	3/31/93	11:20 a.m.	VanCompernolle
04008/MW-8	Water	3/31/93	8:45 a.m.	VanCompernolle
			-	

WELL NUMBER: MW-1

1st Quarter 1993

Job Name: Englewood Yard

Job Number: 44101294

Client: Southern Pacific Transportation Company

Date Sampled: 3/31/93

Site Location: 4910 Liberty Rd., Houston, Texas

Time Sampled: 12:50 P.M.

Weather: Clear, Sunny, 78

Sampled By: VanCompernolle

EXCAVATION DATA

Description of Measuring Point (MP):

Top of PVC Casing (East Side)

Depth of Well (From Ground Level):

18.5 Feet

Depth to Water (From MP):

3.79 Feet

Depth to Water (From Ground Level):

2.25 Feet

Casing Stick-Up:

1.54 Feet

Volume of Water in Well:

2.64 Gallons

Volume of Water Evacuated:

8 Gallons

FIELD PARAMETERS

pH:

7.11

Specific Conductivity:

1317

Sampling Method/Equipment:

Purged with Grundfos Redi-Flo 2 Submersible Pump

Remarks:

Sample # 04001

TIME	WATER PUMPED	TEMP C	рН	SPEC COND. (mV)
1	2.66 Gallons	22.3	6.58	1301
2	2.67 Gallons	21.8	6.76	1292
3	2.67 Gallons	22.4	6.64	1313
Sample		22.5	7.11	1317
				10
				h — H

WELL NUMBER: MW-2

1st Quarter 1993

Job Name: Englewood Yard

Job Number: 44101294

Client: Southern Pacific Transportation Company

Date Sampled: 3/31/93

Site Location: 4910 Liberty Rd., Houston, Texas

Time Sampled: 12:30 P.M.

Weather: Clear, Sunny, 78

Sampled By: VanCompernolle

EXCAVATION DATA

Description of Measuring Point (MP):

Top of PVC Casing (East Side)

Depth of Well (From Ground Level):

18.5 Feet

Depth to Water (From MP)

3.50 Feet

Depth to Water (From Ground Level):

1.98 Feet

Casing Stick-Up:

1.52 Feet

Volume of Water in Well:

2.69 Gallons

Volume of Water Evacuated:

8 Gallons

FIELD PARAMETERS

pH:

7.67

Specific Conductivity:

498

Sampling Method/Equipment:

Purged with Grundfos Redi-Flo 2 Submersible Pump

Remarks:

Sample # 04002

TIME	WATER PUMPED	TEMP C	рН	SPEC COND. (mV)
1	2.66 Gallons	21.6	7.14	439
2	2.67 Gallons	21.2	6.96	478
3	2.67 Gallons	21.8	6.88	472
Sample		21.7	7.67	498
		•		

WELL NUMBER: MW-3

1st Quarter 1993

Job Name: Englewood Yard Job Number: 44101294

Client: Southern Pacific Transportation Company Date Sampled: 3/31/93

Site Location: 4910 Liberty Rd., Houston, Texas Time Sampled: 12:10 P.M.

Weather: Clear, Sunny, 78 Sampled By: VanCompernolle

EXCAVATION DATA

Description of Measuring Point (MP):Top of PVC Casing (East Side)

Depth of Well (From Ground Level): 18.5 Feet

Depth to Water (From MP): 4.35 Feet

Depth to Water (From Ground Level): 2.25 Feet

Casing Stick-Up: 2.10 Feet

Volume of Water in Well: 2.60 Gallons

Volume of Water Evacuated: 8 Gallons

FIELD PARAMETERS

pH: 6.80

Specific Conductivity: 1418

Sampling Method/Equipment: Purged with Grundfos Redi-Flo 2 Submersible Pump

Remarks: Sample # 04003

TIME	WATER PUMPED	TEMP C	рН	SPEC COND. (mV)
1	2.66 Gallons	23.2	6.78	1510
2	2.67 Gallons	21.7	6.59	1375
3	2.67 Gallons	21.3	6.31	1327
Sample		23.8	6.80	1418
	· ·			

WELL NUMBER: MW-4

1st Quarter 1993

Job Name: Englewood Yard

Job Number: 44101294

Client: Southern Pacific Transportation Company

Date Sampled: 3/31/93

Site Location: 4910 Liberty Rd., Houston, Texas

Time Sampled: 10:48 P.M.

Weather: Clear, Sunny, 78

Sampled By: VanCompernolle

EXCAVATION DATA

Description of Measuring Point (MP):

Top of PVC Casing (East Side)

Depth of Well (From Ground Level):

21.0 Feet

Depth to Water (From MP):

5.23 Feet

Depth to Water (From Ground Level):

3.34 Feet

Casing Stick-Up:

1.86 Feet

Volume of Water in Well:

2.87 Gallons

Volume of Water Evacuated:

9 Gallons

FIELD PARAMETERS

pH:

6.65

Specific Conductivity:

828

Sampling Method/Equipment:

Purged with Grundfos Redi-Flo 2 Submersible Pump

Remarks:

Sample # 04004

TIME	WATER PUMPED	TEMP C	рН	SPEC COND. (mV)
1	3 Gallons	24.1	6.81	824
2	3 Gallons	23.5	6.65	815
3	3 Gallons	23.1	6.72	756
Sample		24.1	6.65	828

WELL NUMBER: MW-5

1st Quarter 1993

Job Name: Englewood Yard

Job Number: 44101294

Client: Southern Pacific Transportation Company

Date Sampled: 3/31/93

· Site Location: 4910 Liberty Rd., Houston, Texas

Time Sampled: 10:15 P.M.

Weather: Clear, Sunny, 78

Sampled By: VanCompernolle

EXCAVATION DATA

Description of Measuring Point (MP):

Top of PVC Casing (East Side)

Depth of Well (From Ground Level):

26.0 Feet

Depth to Water (From MP):

1.18 Feet

Depth to Water (From Ground Level):

1.18 Feet

Casing Stick-Up:

0 Feet

Volume of Water in Well:

4.04 Gallons

Volume of Water Evacuated:

20 Gallons

FIELD PARAMETERS

pH:

7.10

Specific Conductivity:

851

Sampling Method/Equipment:

Purged with Grundfos Redi-Flo 2 Submersible Pump

Remarks:

Sample # 04005

TIME	WATER PUMPED	TEMP C	рΗ	SPEC COND. (mV)
1	6.66 Gallons	23.0	7.02	851
2	6.67 Gallons	22.8	6.98	873
3	6.67 Gallons	22.5	7.15	863
Sample		22.7	7.10	856
			<u>.</u>	
				·

WELL NUMBER: MW-7

1st Quarter 1993

Job Name: Englewood Yard Job Number: 44101294

Client: Southern Pacific Transportation Company Date Sampled: 3/31/93

Site Location: 4910 Liberty Rd., Houston, Texas Time Sampled: 11:20 A.M.

Weather: Partly Cloudy, 65 Sampled By: VanCompernoile

EXCAVATION DATA

Description of Measuring Point (MP):Top of PVC Casing (East Side)

Depth of Well (From Ground Level): 23.0 Feet

Depth to Water (From MP): 4.25 Feet

Depth to Water (From Ground Level): 2.04 Feet

Casing Stick-Up: 1.71 Feet

Volume of Water in Well: 13.55 Gallons

Volume of Water Evacuated: 40 Gallons

FIELD PARAMETERS

pH: 7.09

Specific Conductivity: 933

Sampling Method/Equipment: Purged with Grundfos Redi-Flo 2 Submersible Pump

Remarks: Sample # 04006

TIME	WATER PUMPED	TEMP C	рН	SPEC COND. (mV)
1	13.33 Gallons	22.7	7.50	951
2	13.33 Gallons	22.7	7.22	917
3	13.34 Gallons	22.8	7.15	921
Sample		22.7	7.09	933

WELL NUMBER: MW-8

1st Quarter 1993

Job Name: Englewood Yard

Job Number: 44101294

Client: Southern Pacific Transportation Company

Date Sampled: 3/31/93

Site Location: 4910 Liberty Rd., Houston, Texas

Time Sampled: 8:45 A.M.

Weather: Clear, Sunny, 78

Sampled By: VanCompernolle

EXCAVATION DATA

Description of Measuring Point (MP):

Top of PVC Casing (East Side)

Depth of Well (From Ground Level):

24 Feet

Depth to Water (From MP):

4.52 Feet

Depth to Water (From Ground Level):

1.93 Feet

Casing Stick-Up:

2.77 Feet

Volume of Water in Well:

14.63 Gallons

Volume of Water Evacuated:

44 Gallons

FIELD PARAMETERS

pH:

7.18

Specific Conductivity:

1060

Sampling Method/Equipment:

Purged with Grundfos Redi-Flo 2 Submersible Pump

Remarks:

Sample # 04007

TIME	WATER PUMPED	TEMP C	рН	SPEC COND. (mV)
1	13.33 Gallons	20.9	7.21	984
2	13.33 Gallons	20.3	7.11	109
3	13.34 Gallons	18.9	7.22	112
Sample		18.3	7.18	106
	<u> </u>			

John Hall, *Chairman*Pam Reed, *Commissioner*Peggy Garner, *Commissioner*Dan Pearson, *Executive Director*



TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

Protecting Texas by Reducing and Preventing Pollution

<u>CERTIFIED MAIL</u> December 29, 1994 <u>RETURN RECEIPT REQUESTED</u>

Ms. Aniko Molnar Sr. Environmental Project Manager Southern Pacific Lines 1920 Main Street, Suite 400 Irvine, CA 92714

Re: Southern Pacific Transportation Company - Houston, Compliance Plan CP-50343, SWR No. 31547, EPA ID No. TXD000820266 Extent of Contamination Work Plan

Dear Ms. Molnar:

The Texas Natural Resource Conservation Commission (TNRCC) has reviewed the above referenced Extent of Contamination (EOC) Work Plan dated September 16, 1994. During the review process of the above referenced work plan, the following deficiencies were noted.

- <u>Section 3.6.3. page 39</u>: Describe the rationale and methods used to determine which intervals of the soil borings are to be analyzed for creosote constituents.
- Section 3.6.4. page 39: Include porosity and fractional organic carbon content (f_{∞}) tests for the representative soil samples described.
- <u>Section 3.7.2. page 45</u>: The second paragraph discusses the use of a two foot sediment trap below the base of the well screen. Discuss whether sediment traps will be installed on all new monitor wells.
- Section 3.7.3. page 47: Since the potential for Dense Non-Aqueous Phase Liquids (DNAPLs) exists at this facility, please describe the methods which will be used to monitor for DNAPLs accumulating in the monitor wells. Include with this description the means by which a potential accumulation of DNAPL would be measured and removed from a monitor well.
- <u>Section 3.3.2. page 26</u>: Upon completion, please submit a copy of the results of the wetland assessment and determination.
- Section 6, Schedule for EOC Investigation: The four to five month time period between KG COH 002648

Ms. Molnar Page 2 December 29, 1994

"Monitoring Well Sampling-First Event" and "Data Evaluation", and the ten month time period between "Data Evaluation" and submittal of the EOC Investigation Report, appear excessive. Please submit a schedule with more realistic time frames or provide justification for the submitted schedule.

Section 6.3: Include with the final report a map or aerial photograph showing the location of all monitor wells, soil borings, Cone Penetrometer Tests (CPT), drainage, potential wetlands, residential homes, and buildings and structures within a half mile radius of the surface impoundment.

Within forty-five (45) days of the date of this letter, please submit a response which addresses the above noted deficiencies. If you have any questions or comments regarding this letter, please contact Mr. Stephen Omo of my staff at 512/239-2308.

Sincerely,

Ata-ur-Rahman, Supervisor Permits Ground-Water Team

Industrial and Hazardous Waste Division

SMO:smo

cc: TNRCC Region 12 - Houston



10025 W. Technology Blvd., Suite 147 Dallas, TX 75220 214/352-9400 FAX 214/352-3200

AMENDMENT TO OPERATION AND MAINTENANCE PLAN FOR GROUNDWATER MONITORING AND RECOVERY SYSTEM

Southern Pacific Transportation Company
Wood Preserving Works
4910 Liberty Road
Houston, Texas

IC Project No. 44102069/01

Prepared For:

Southern Pacific Lines One Market Plaza San Francisco, California 94105

December 8, 1994



AMENDMENT TO OPERATION AND MAINTENANCE PLAN FOR GROUNDWATER MONITORING AND RECOVERY SYSTEM

Southern Pacific Transportation Company
Wood Preserving Works
4910 Liberty Road
Houston, Texas

Prepared By:

Elaine J. Hanford Technical Manager

Approved by:

Curtis L. Jones

Project Manager

AMENDMENT TO OPERATION AND MAINTENANCE PLAN FOR GROUNDWATER MONITORING AND RECOVERY SYSTEM

3.0 WELL OPERATION AND MAINTENANCE

3.1 Sampling

Following well installation and development, periodic sampling will be conducted at each well in accordance with the frequency outlined in the Permit and the Compliance Plan. Typical sampling protocols and approved analytical methods are described in the Sampling and Analysis Plan (Appendix A) as approved in the Compliance Plan. Reporting requirements relative to the results of groundwater monitoring are outlined in the Compliance Plan.

3.2 Well Maintenance

Well heads will be visually inspected for damage, cracking, heaving, and settling. Any deterioration of the well head that could compromise the quality of representative groundwater samples will be noted, and corrective action will be taken to repair or replace the well head, as appropriate.

Concrete pads around the monitor wells will be visually inspected for insect or animal nests or burrows. Monitor well pad areas may become inhabited by fire ant mounds or red ant burrows which will be removed by an appropriate application of insecticides (e.g., Amdro) either by direct contact or bait. Burrowing animals such as ground squirrels, and various burrowing rodents will be bait trapped with a Have-a-Hart or similar live animal trap and released away from the vicinity of the wells. Burrow holes will be filled in and a rodent repellant applied to prevent reinfestation. If burrowing animals persist, hardware cloth will be installed around the perimeter security fence. Burrowing under the fence will be checked during scheduled inspections.

Monitor wells may accumulate silt within the well bore above the silt trap. Total depth of the interior of the open well bore will be measured in conjunction with periodic sampling conducted at each well in accordance with the frequency outlined in the Permit and the Compliance Plan. Total depth should be compared with screened interval. If more than a one-foot interval or more than ten percent of the screened interval, whichever is greater, has been silted then the well should be scheduled for redevelopment or reconditioning. A jetting tool with variable controlled pressure is used to suspend accumulated silt, followed by air induction redevelopment to remove the silt. If needed, the well may then be surged to tighten the sand pack, followed by air induction to complete redevelopment. The rate of siltation within the well bore and the rate of recharge of the well will be monitored; if these rates not be within the norm, then the well may be designated for abandonment and/or replacement.

Where maintenance activities are not sufficient to repair damage to a well, abandonment and possible replacement of the well will be proposed for TNRCC approval. Any abandonment and/or replacement will be conducted in accord with applicable regulations, and with TNRCC concurrence.

Periodic inspection of wells is required to ensure that proper access, security, and identification are maintained. Inspection requirements, schedules, and documentation procedures are provided in Section 5.0.

O&M Plan Amendment 12/8/94 KG COH 002653



TABLE 5.1 INSPECTION PROGRAM

Item	Potential Problem(s)	Inspection Frequency
Closed Surface Impoundment	Erosion of cover; growth of woody vegetation; overgrown, dead, or distressed vegetation; animal burrows, ponded water	Monthly
Closed Surface Impoundment Fence	Breached or damaged fencing; tilting posts; sagging fence mesh; excavation or erosion under fencing; missing, illegible, or damaged signs	Monthly
Grounds	Grounds Inadequate or poorly maintained access; vegetation obscuring well; poor drainage; missing, illegible, or damaged signs Barriers Damaged or missing bollards	
Barriers		
Concrete Pad Cracked concrete; erosion under pad; insect or animal nests or burrows		Quarterly
Protective Cover	Damaged or rusted cover	Quarterly
Well Markings	Missing, inadequate, or illegible markings	Quarterly
Well Cap	Missing or damaged cap, missing or damaged lock, plugged cap vent	Quarterly
Casing and Screen	Collapsed or damaged casing; silted screen	Quarterly/semi- annually with sampling

APPENDIX B INSPECTION CHECKLISTS

O&M Plan Amendment 12/8/94 KG COH 002655



WELL INSPECTION CHECKLIST

FACI	ILITY:			
WELI	NUMBER/LOCATION: _			
INSE	PECTOR:		DATE:	
1.	Is well access cle	ar and properly m	aintained?	
	YES	МО	COMMENT	
2.	Is well area free	of standing water	or eroded areas?	
į.	YES	NO	COMMENT	
3.	Are required placar	rds, notices, and	instructions present and legible	?
	YES	NO	COMMENT	
4.	Are safety barrier	pipes in place a	nd in good repair?	
	YES	NO	COMMENT	
5.	Is concrete pad at	well base in good	d repair and free of cracks?	
	YES	NO	COMMENT	
	<u> </u>			
6.	Is soil around base	e of concrete pad	eroded?	
	YES	NO	COMMENT	
	<u> </u>	<u></u>	. ———	
7.	Are insect nests or	r animal burrows h	peneath or around the concrete page	1?
	YES	NO	COMMENT	
	<u> </u>		L	
8.	Is wellhead protect	ive collar in goo	od repair?	
	YES	NO	COMMENT	
	<u> </u>	<u> </u>	L	
9.	Are well collar mar	rkings present and	i visible?	
	YES	NO	COMMENT	
	L	<u> </u>	<u> </u>	
10.	Is wellhead cap in	place and in good	d repair?	
	YES	по	COMMENT	
	<u></u>	<u> </u>	L	

O&M Plan Amendment 12/8/94

Page 1 of 2

11.	Is	wellhead	cap loc	cked?				
	YES			ио			COMMENT	
12.	Is	wellhead	cap ver	nt oper	n and u	nobstr	ucted?	
	YES			NO			COMMENT	
13.	Is	well cas	ing inte	grity	intact	and i	s casing in	n good repair?
	YES			МО			COMMENT	
Comme	ents:							•
Signa	ature	of Insp	ector:					
Signa	ature	of Revi	ewer: _					
Date	of R	eview:						
Descr	ripti	on of Re	commende	d Corr	rective	Actio	ns:	
•								
						-		
a								
COTTE	CCIV	e ACTION	Approva	.T: _				
Date	of A	pproval:	-	-				
Corre	.a+ i	a Nation	a Comple					
(Sign	atur	e and Da	s comple te)	.cea: _				

O&M Plan Amendment 12/8/94

Page 2 of 2



SP TANK ID LOCATION DATE OF REMOVAL 44-023-21 Houston, Texas June 7, 1990

SPEVS FIELD TECHNICIAN
SPEVS REGIONAL COORDINATOR

Brigitte Lievens
Patricia Curl

CONTRACTOR

D & H Pump Services El Paso, Texas

SP Environmental Systems, Inc. 9719 Lincoln Village Drive, Suite 310 Sacramento, California 95827 (916) 369-8971

Notification for Underground Storage Tanks

Form Addrioved Canding. 2014-0149 Addrioval Fedires 6-10-62

FOR TANKS IN TX RETURN COMPLETED FORM

Underground Storage Tank Program Texas Water Commission P.O. Box 13087 Austin, TX 78711

I.D. Number	· STATE USE ONLY	
i.D. Number		
Date Received		

GENERALINIFORMATION

Notification is required by Federal law for all underground tanks that have been used to store regulated substances since January 1, 1974, that are in the ground as of May 8, 1986, or that are brought into use after May 8, 1986. The information requested is required by Section 9002 of the Resource Conservation and Recovery Act. (RCRA), as amended.

The primary purpose of this notification program is to locate and evaluate underground tanks that store or have stored petroleum or hazardous substances. It is expected that the information you provide will be based on reasonably available records, or, in the absence of such records, your knowledge, belief, or recollection.

Who Must Notify? Section 9002 of RCRA, as amended, requires that, unless exempted others of underground tanks that store regulated substances must notify designated State or local agencies of the existence of their tanks. Owner means—

(a) in the case of an underground storage tank in use on November 8, 1984, or brought into use after that date, any person who owns an underground storage tank used for the storage, use, or dispensing of regulated substances, and

(b) in the case of any underground storage tank in use before November 8, 1984, but no longer in use on that date, any person who owned such tank immediately before the discontinuation of its use.

What Tanks Are Included? Underground morage tank is defined as any one or combination of tanks that (1) is used to contain an accumulation of "regulated substances." and (2) whose volume (including connected underground piping) is 10% or more beneath the ground. Some examples are underground tanks storing. It gasoline, used oil, or diezel fuel, and I industrial solvents, pessicides, herbicides or furnigants.

What Tanks Are Excluded! Tanks removed from the ground are not subject to notification. Other tanks encluded from notification are:

1. farm or residential tanks of 1.100 gallons or less capacity used for storing motor fuel for noncommercial purposes:

L ranks used for storing heating oil for consumptive use on the premises where stored:

submitted information is true, accurate, and complete.

4. pipeline facilities (including gathering lines) regulated under the Natural Cas Pipeline Safety Act of 1968, or the Hazardous Liquid Pipeline Safety Act of 1979, or which is an intrastate pipeline facility regulated under State laws:

5. surface impoundments, pits, ponds, or bacons:

6. storm water or waste water collection systems:

7. Now-through process tanks:

 Equid traps or associated gathering lines directly related to oil or gas production and gathering operations:

It storage tanks situated in an underground area (such as a basement, crillar, mineworking, drift, shaft, or tunnel) if the storage tank is situated upon or above the storage of the floor.

What Substances Are Covered? The notification requirements apply to under ground storage tanks that contain regulated substances. This includes any substance defined as hazardous in section 101 (14) of the Comprehensive Environmenta Response. Compressation and Liability Act of 1980 (CERCLA), with the encaption of those substances regulated as hazardous waste under Substitle C of Real, It ais includes petroleum, e.g., crude oil or any fraction thereof which is liquid at standar conditions of temperature and pressure (60 degrees Fahrenneit and 14.7 pounds pounds as square inch absolute).

Where To Notify? Completed notification forms should be sent to the addressiven at the top of this page.

When To Notify? 1. Owners of underground storage tanks in use or that have be taken out of operation after January 1. 1974, but still in the ground, must notify? May 8, 1986, 2. Owners who bring underground storage tanks into use after May 1986, must notify within 30 days of bringing the tanks into use.

Presities: Any owner who knowingly fails to notify or submits false information shall be subject to a civil penalty not to exceed \$10,000 for each tank for was notification is not given or for which false information is submitted.

3. Septie Maxx.	· · · · · · · · · · · · · · · · · · ·	HIDRS .	н,	
Please type or print in ink all items except "sign each location containing underground storage to photocopy the reverse side, and staple continuate	anks. If more than 5 tanks a	rm must by completed for tre owned at this location.	Indicate number continuation she attached	
Lower state of the second	5	TAKE .	(महाराज्य (मञ् <i>राहरात्</i> वि)	+
Cwner Name (Corporation, Individual, Fublic Agency	/. or Other Entity)	(If same as	Section 1, mark box here	
Southern Pacific Tran	sportation Co.	Facility Name or Company	Site Identifier, as applica	atle
Street Address One Market Plaza R	m. 1004	SPTCO		
County		Street Address or State For 4910 Liber		
City Smie	ZIF Code 9 4 10 5	County Harris	<i>-</i>	
San Francisco CA Area Code Fhone Number	7 7 70 3	City (nearest)	State	ZIP Cade
45 541-2385		Houston	TX_	77026
Type of Owner (Mark all that apply 12)				
Current State or Local Gov't	Frivate or Corporate	Indicate number of	Mark box here if	
Former Federal Gov't (GSA facility LD. no.	Ownership uncertain	tanks at this location	an Indian reserv	ation or 🗀
		NAS PRIKLIGEATICIS		
			Area Code	Phone Nun
Name (If same as Section I, mark box here DAN: HOFFEREK) Jab Title U+:1:+y	Supervisor	215 215	2z4-3
	WITTEUF	1,(+1413(m-14(m),)		,
KG COH 002659 Mark box h	ere only if this is an amend	ed or subsequent notification (or this location.	

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all atta documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the

Owner Name (from Section I) SPTCO Location (from Section II) Houston P

nk Identification No. (e.g., ABC-123), or Arbitrarily Assigned Sequential Number (e.g., 1,2,3)	Tank No. 444-023-21	Tank No.	Tank No.	Tank No.	Tank No.
1. Status of Tank (Mark all that apply 図) Temporarily Out of Use Permanently Out of Use Brought into Use after 5/8/86	Removed				
2. Estimated Age (Years)	Unkn				
3. Estimated Total Capacity (Gallons)	200 1				
4. Material of Construction Steel (Mark one ©) Concrete Fiberglass Reinforced Plastic Unknown Other, Please Specify					
5. Internal Protection (Mark all that apply 10) Interior Lining (e.g., epoxy resins) None Unknown Other, Please Specify					
6. External Protection (Mark all that apply 21) Fiberglass Reinforced Plastic Coated None Unknown Other, Please Specify					
7. Piping Eare Steel (Mark all that apply X) Galvanized Steel Fiberglass Reinforced Plastic Cathodically Protected Unknown Other, Please Specify					
8. Substance Currently or Last Stored in Greatest Quantity by Volume (Mark all that apply 21) Gasoline (including alcohol blends) Used Oil Other, Please Specify C. Hazardous Substance					
Chemical Abstract Service (CAS) No. Mark box 2 if tank stores a mixture of substances KG COH 002660 d. Unknown					
9. Additional Information (for tanks permanently taken out of service) a. Estimated date last used (mo/yr) b. Estimated quantity of substance remaining (gal.)	Removed 6 190	/	. /		

GENERAL UGST REHOVAL WORK PLAN

1. PURPOSE

The purpose of this work plan is to outline the general procedures used during the removal of underground storage tanks (UST) from a Southern Pacific site. The removal of an UST includes the permanent removal of the tank and associated piping (if any), disposal of the tank and piping, and proper closure of the excavation. The procedures documented in this work plan are not site specific and do not cover special circumstances which may be encountered. Any variation to these procedures will be documented and included as an amendment to the site specific report.

2. PROCEDURES FOR TANK REHOVAL

- o The UST will be exposed by removing the overlying material (asphalt, concrete, gravel, soil) by means of a backhoe, jackhammer, shovel or other appropriate equipment.
- o Any residual liquid will be removed from the tank by pumping the material into a vacuum truck or drums. This liquid will be transported for either recycling or proper disposal.
- o Prior to pulling the tank from the excavation, the tank will be rendered inert by purging with carbon dioxide. An explosimeter, or LEL meter will be used in the field to determine that the tank is inert. All local regulations governing procedures and inspections will be followed.
- The tank will be removed from the excavation by means of a backhoe, crane, or other applicable equipment. The tank will be loaded onto a flatbed truck, and transported under the proper manifests to a site which is certified to receive tanks.
- o The tanks will then be cleaned (if necessary) and cut into scrap metal. A certificate for each tank will be obtained after its destruction to document that the tanks will not be re-used for any purpose other than scrap metal.

3. EXCAVATION SAMPLING PROCEDURES

3.1 Excavation Procedures

Upon removal of each tank, the tank backfill material will be removed from the excavation with the backhoe. The excavation will be visually inspected as well as screened with a Photovac TIP II (a photo-ionization detector) for an indication of soil contamination. If contamination is found to be present, the affected soil will be separated from soil which is deemed clean, and will be either stockpiled on and covered with plastic, or placed in 55-gallon soil drums until receipt of analytical results from soil samples.

KG COH 002661

Once the extent of obvious contamination has been removed, or if no contamination was found, the native soil beneath either end of the tank will be sampled. If the extent of contamination could not be removed, then samples would be obtained from the bottom (or sidewalls) of the excavation.

3.2 <u>Samoling Procedures</u>

Upon deciding the sample locations, each sample will be obtained by the following procedures:

- o Native soil from the desired location will be obtained with the backhoe bucket and brought to the ground surface.
- o The top portion of the material will be scraped away with a clean hand trowel to expose undisturbed soil.
- o To obtain a sample, the field technician will drive a clean brass tube into the undisturbed soil with a mallet. (The brass tubes will be cleaned prior to use by washing in a solution of tri-sodium phosphate, rinsing in distilled water, and allowing to air dry.)
- o The sample tube will be removed from the soil and each end will be covered with Teflon sheeting and tight fitting plastic end caps.
- Each sample will be labeled, logged onto a chain-of-custody, and stored in an iced cooler until delivery to a state certified laboratory.
- A portion of the soil from the backhoe bucket will be described and screened with a Photovac Tip II (photo-ionization detector), which is calibrated frequently following the manufacturers instructions. The description and TIP reading will be noted in the Field Technician's field notes and will be reported in the site specific report for each tank.

4. EXCAVATION CLOSURE

Upon completion of sample collection, each excavation will be closed by backfilling with either the material removed (if no contamination was indicated), or by backfilling with clean imported fill from an offsite source. The excavations will be compacted as each site deems necessary.

After the excavation has been backfilled, the site will be restored to its original condition. Either asphalt, concrete, or gravel will be replaced, if necessary, and any fencing, etc. removed during construction activities, will be replaced.

5. ANALYTICAL ANALYSIS

As a minimum, two samples from each tank excavation will be analyzed for total petroleum hydrocarbons, and benzene, toluene, ethylbenzene, and xylenes, unless otherwise instructed or deemed necessary. Samples will be analyzed by a state certified laboratory on a standard 2-week turn around time.

6. HEALTH AND SAFETY PROCEDURES

At each tank site, the minimum level of protection required for all personnel on site will be:

- o steel toe boots
- o hard hats
- safety glasses or goggles
- o disposable gloves

The level of protection may be upgraded if field observations and TPP readings deem it to be necessary.

Safe work practices will be followed. The work area will be barricaded so as not to allow the public to have access to the work area. In addition, any excavation left open will be fenced.

A tailgate safety meeting will be given by the field technician with the field crew, in order to assure safe work practices.

SP ENVIRONMENTAL SYSTEMS, INC. UNDERGROUND STORAGE TANK REMOVAL REPORT

GENERAL SITE INFORMATION

1. a) SP Tank Number: 44-023-21 b) State Tank Number: Tank not registered. Registration form included.

2. Date On Site: 6/7/90

3. Facility Name: Southern Pacific Transportation Company

4. Street Address: 4910 Liberty

City/State/County: Houston/Texas/Harris

6. Comments: Woodworks

TANK INFORMATION

- 1. Diameter: 3'
- 2. Length: 4'
- 3. Tank Capacity (volume): 200 gallons
- 4. Product Type: Gasoline
- 5. Amount of product in tank (if any): 200 gallons
 - a) Was product pumped?: Yes
 - b) If so, destination of product: Used on site
 - c) Comments:
- 6. Condition of Tank/Comments: Tank in good condition. No holes.

EXCAVATION INFORMATION

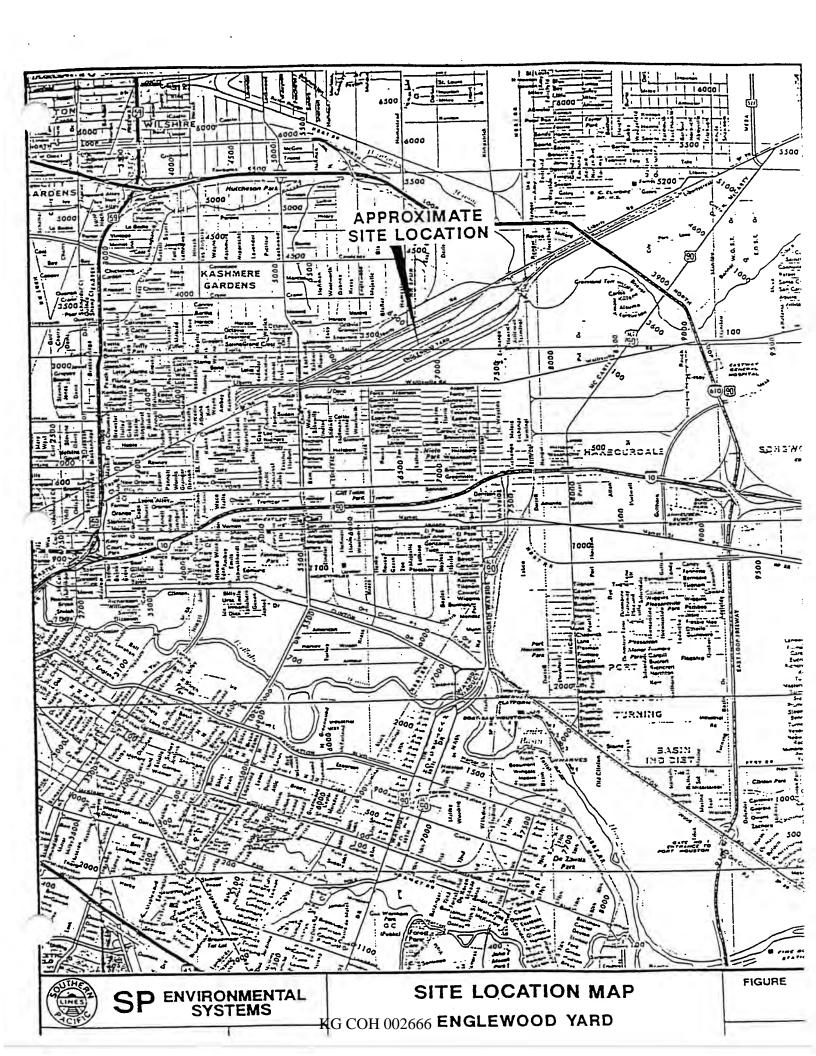
- Length (in feet) and orientation: 6' North to South 1.
- 5' East to West Width (in feet) and orientation: 2.
- Final excavation depth (in feet): 3.
- Visible Contamination? 4. Appears to be tar-like material, not Describe extent: from the tank.
 - 9999+ ppm Field TIP Reading(s): b)
- Soil Description (include type, color, moisture, odor, other): 5. Sandy silt, black, moist, strong odor.
- Excavation Backfilled?: 6. a) Source(s) of fill material: Local source.
- Is there soil stockpiled?: Yes.
 - a) Location: Semmes St.
 - 20 cu yds Quantity:

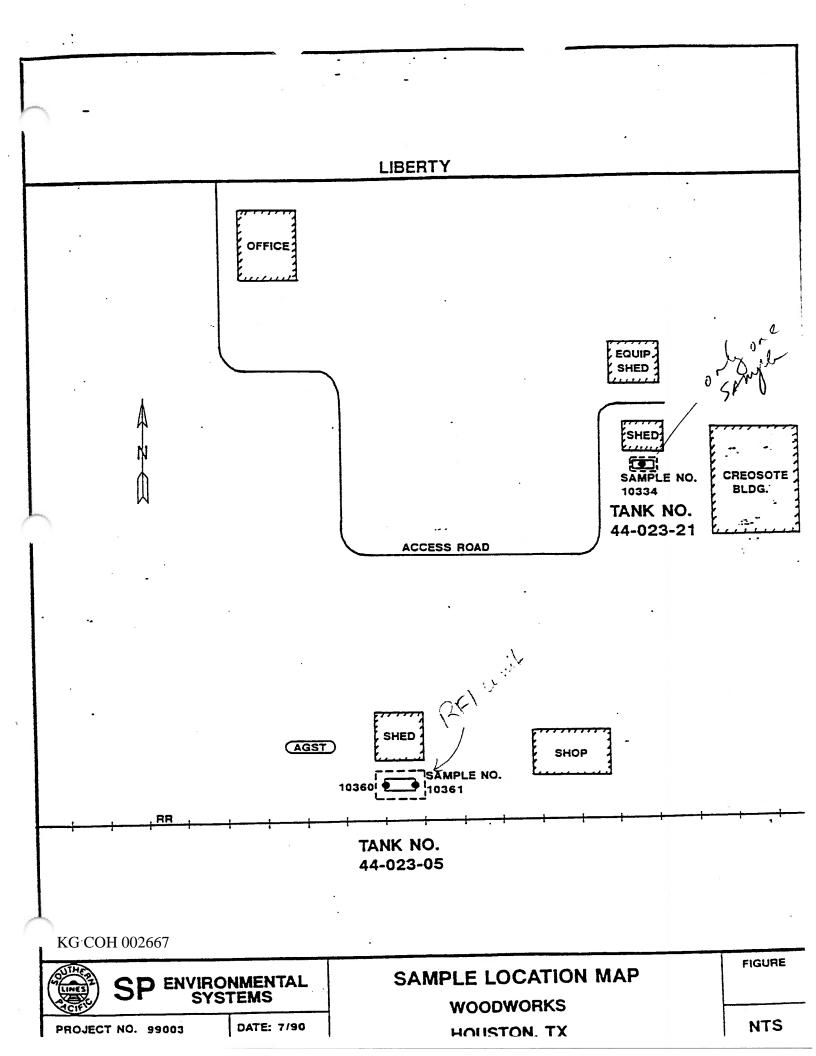
LABORATORY INFORMATION

I'm sky minime of Number of samples taken: 1.

<u>Analyses</u> Sample Location and Depth Sample ID TPH/BTEX Bottom Center-6' depth 10334

- Radian Corp. Performing Laboratory: 2.
- Chain-of-Custody Number: 10942 3.
- Date Sent to Lab: 6/7/90 4.
- Comments: 5.





SOUTHERN PACIFIC TRANSPORTATION COMPANY UNDERGNOUND STORAGE TANK REMOVALS

Region	Tank	Location	Capacity	Product	Date	Date	Date	(20/00)	Denzene (un/he)	(ne/ke)		(ue/ke)	(ue/ke) (ue/kg)
Š.	No.		Gullons		Installed	Vaded	Kemoved	(mg/kg)	(B,vg)	(agive)		9-8-	-
-	10-500-44	Houston-Computer Room, TX	1000	Diesel	1980	Original	05/11/90	QN	QN	14		4.4	
	44 000 00	\neg	000	Diesel	1979	Original	06/11/50	QN	ND	14		7.8	
1	44-023-02	-	000	Gasoline	1980	Original	06/22/90	QN.	ND	43		4	4 27
-	44-023-03	Houston-Bowl Tower, 17	8	Geoline	Unkn	Orieinal	06/28/90	QN	QN	43		4.2	4.2 27
4	44-023-04		2000	Geoffine	9961	Orleina	06/50/90	066/	(370	7900	3,	3200	00081 007
174	44-023-05	Houston-PMDC, 1A	350	Used Oil	1961	Orieina	06/14/90	500	足	20		3.9	1.9 27
4	44-023-00	44-UZ3-U0 Houston-AWE, 1A	8		1976	Orteinal	PREVIOU	PREVIOUSLY REMOVED	VED	(
4	44-023-07	44-023-0/ Houston-AwE, 1A	3 2	Gesoline	1074	Orteinal	05/21/90	QN	2	7 230	4	9.4	1.6 23
4	44-023-09	44-023-09 Houston-Rail Weiding, 1A	3	ounces.	1001	Octobrol	08/17/50	QN	QN	230	-	4.6	1.6 23
4	44-023-10	44-023-10 Houston-M&W, IX	300	Outoning	1021	100	06/10/00	23	CN	7	-	5.5	130
4	44-023-11	Houston-Diesel Shop, TX	3200	Lube Oil	1930	Original	00/13/20		- 1				
4	44-023-12	Houston-P&M Dept, TX	800	Kerosene	1956	Original	PREVIOU	PREVIOUSLY REMOVED	_			Ī	
	44-023-13		1200	Lube Oil	Unkn	06/04/90	.06/61/90	QN	QN	22	2.9	. 1	
1	7 000	Houston-Wheel Shon TX	1000	Gasoline	Unkn	06/04/90	06/11/90	23	QN PD	300	23		150
•	44-023	44-023-14 Houston Wheel Shor TX	2000	Gasoline	Cuka	06/04/90	06/27/90	30	QN	220	17		120
1	44-023-13	Houston-Precin and The		Water	Unka	06/04/90	06/04/90	QN	S	14	13		25
4	44-023-10	Houston-wattiswile, 1A	3000	i Carrie	Hoke	06/04/90	06/18/90	QN.	S	6	QN		14
4	44-023-17	_	300	In the Oil	Haka	06/04/90	06/8 /90	QN	Q	01	QN QN		91
4	44-023-18	_	300	Lune On	Orania Parket	06/190	06/11/90	CZ	QN	82	3.6		22
4	44-023-19	Houston-Galena Park, TX	2000		UNKU	06/04/90	00120130		2 2	22			72
4	44-023-20	Houston-Car Shop, TX	1700	Gasoline	Unkn	06/04/90	06/10/90	QN.	ON!	77			
-	44-073-21	$\overline{}$	200	Gasoline	Unkn	06/04/90	06/10/90	2	2	18	2.1		44
ŀ	44-003-22	Houston-Fulton TX	2000	Gasoline	Unkn	06/11/90	06/119/0		COMBINI	COMBINED WITH 44-023-13	023-13		
	44 003-03		2000	Gasoline	Unkn	06/61/90	06/61/90		COMBIN	COMBINED WITH 44-023-13	-023-13		

ND=NOT DETECTED

NOTE: WHERE MORE THAN ONE SAMPLE WAS COLLECTED PER TANK, THE HIGHEST CONCENTRATIONS ARE SHOWN.

NOTE: TANKS 44.023.13, 22, AND 23 WERE CLOSED IN PLACE AT THE SAME LOCATION, DUE TO OVERHEAD AND UNDERGROUND LINES, ONLY 1 BORING COULD BE DRILLED IN THE AREA.

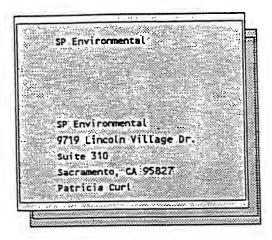
* THIS TANK WAS CLOSED IN PLACE

KG COH 002668



Radian Work Order 90-06-129

Analytical Report 07/05/90



Customer Work Identification PMDC Woodworks - Houston
Purchase Order Number

Contents:

1 Analytical Data Summary
2 Sample History
3 Comments Summary
4 Notes and Definitions

Radian Analytical Services 8501 Mo-Pac Boulevard P. O. Box 201088 Austin, TX 78720-1088

512/454-4797

Client Services Coordinator: WLBROWN

Certified by:

Page: 2

SP Environmental

Radian Work Order: 90-06-129

Simile 2000.

Method: Volatile aromatics (1) List BTEX Reagent: Blank Sample ID: 12.5 12.5 Factor: ug/kg Results in: ug/kg 03A DIA how do those confre to mscs solid solid Matrix: Result Det. Limit Result Det. Limit 2.5 2.5 Benzene 2.5 2.5 4.2 82 5.1 Ba Ethylbenzene 2.5 12 82 Toluene Total xylenes Surrogate Recovery(%) 96 114 1-Bromo-4-fluorobenzene Control Limits: 76 to 140

ND Not detected at specified detection limit

2 Est. result less that 5 times detection limit

H Inorg CLP-result<CRDL but>than IDL/Org-detected in blank

(1) For a detailed description of flags and technical terms in this report refer to Appendix A in this report.

m clue



SP Environmental
Radian Work Order: 90-06-129

Method/Analyte	10334	Method Blank
Matrix	01 solid	02 solid
	Result Det. Limit	Result Det. Limit Result Det. Limit
ydrocarbons, total E418.1 Hydrocarbons	ND mg/kg 20	ND mg/kg 20
Percent Moisture Percent moisture	16 % moistu	





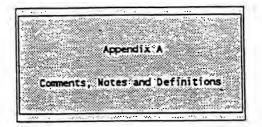
Sample History

SP Environmental

Radian Work Order: 90-06-129

		Sample ld	entifications an	d Dates	Section 1
Sampl	le ID	10334	Method Blank	Reagent Blank	
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Sampled Received ix	06/07/90 06/13/90 solid 01	06/13/90 solid 02	06/13/90 solid ² 03	
Volatile aroma	Prepared Analyzed Analyst File ID Blank ID Instrument Report as total E418.1 Prepared Analyzed Analyzed Analyst File ID Blank ID Instrument Report as	06/18/90 06/18/90 BM dd061815 dd06186 d received 07/02/90 07/02/90 RDO PE IR received 06/15/90 JB	07/02/90 07/02/90 RDO PE IR received	06/18/90 06/18/90 JB dd06186 d received	





#### RADIAN

Notes and Definitions

SP Environmental
Radian Work Order: 90-06-129

a ALL METHODS EXCEPT CLP

The results which are less than five times the method specified detection limit.

**EXPLANATION** 

Uncertainty of the analysis will increase as the method detection limit is approached. These results should be considered approximate.

B INORGANIC CLP

This flag incdicates that a reported value is less than the Contract Required Detection Limit (CRDL), but greater than the Instrument Detection Limit (IDL).

ORGANIC METHODS

This flag indicates that an analyte is found in the associated blank, but the sample results are not corrected for the amount in the blank.

ND ALL METHODS EXCEPT CLP

This flag is used to denote analytes which are not detected at or above the specified detection limit.

**EXPLANATION** 

The value to the right of the < symbol is the method specified detection limit for the analyte.



SP Environmental Radian Work Order: 90-06-129

TERMS USED IN THIS REPORT:

Analyte - A chemical for which a sample is to be analyzed. The analysis will meet EPA method and QC specifications.

Compound - See Analyte.

Detection Limit - The method specified detection limit, which is the lower limit of quantitation specified by EPA for a method. Radian staff regularly assess their laboratories' method detection limits to verify that they meet or are lower than those specified by EPA. Detection limits which are higher than method limits are based on experimental values at the 99% confidence level. The detection limits for EPA CLP (Contract Laboratory Program) methods are CRQLs (contract required quantitation limits) for organics and CRDLs (contract required detection limits) for inorganics. Note, the detection limit may vary from that specified by EPA based on sample size, dilution or cleanup. (Refer to Factor, below)

EPA Method - The EPA specified method used to perform an analysis. EPA has specified standard methods for analysis of environmental samples. Radian will perform its analyses and accompanying QC tests in conformance with EPA methods unless otherwise specified.

Factor - Default method detection limits are based on analysis of clean water samples.

A factor is required to calculate sample specific detection limits based on alternate matrices (soil or water), reporting units, use of cleanup procedures, or dilution of extracts/digestates. For example, extraction or digestion of 10 grams of soil in contrast to 1 liter of water will result in a factor of 100.

Matrix - The sample material. Generally, it will be soil, water, air, oil, or solid waste.

Radian Work Order - The unique Radian identification code assigned to the samples reported in the analytical summary.

Units - ug/L micrograms per liter (parts per billion); liquids/water  ug/kg micrograms per kilogram (parts per billion); soils/solids  ug/M3 micrograms per cubic meter; air samples  mg/L milligrams per liter (parts per million); liquids/water  mg/kg milligrams per kilogram (parts per million); soils/solids  % percent; usually used for percent recovery of 90 standards
us/cm:: conductance unit; microSiemans/centimeter .mL/hr. milliliters per hour; rate of settlement of matter in water .MTU turbidity unit; nephelometric turbidity unit .CU color unit; equal to 1 mg/L of chloroplatinate salt

KG COH 002675

Page: A-3

KG COH 002676 SP - EvS

# CHAIN-OF-CUSTODY RECORD

9006/29 No. 10942

Systems, Inc. • 9719 Lincoln Village Drive, Sie. 310  DODUME (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900)  SHOULT (1900	• Sacramento, CA 95827 • Phone 916-369-8971 • FAX 916-369-8370	ANALYSIS DESIRED  ANALYSIS DESIRED  (INDICATE SEPARATE CONTAINERS)  CONTAINERS)	<b>X</b> <del>X</del>	LOT ISIS 4°C  LOT ISIS 4°C  LOT ISIS HAMME LEUENBRIEBERS SOUTHER
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	9 9719 Lin	- was Dunks P	THE CONF	TEM TRANSFERS NUMBER NELINOUSNED

### Quit Claim Deed for Underground Petroleum Storage Tanks

	KNOW ALL M	EN BY THESE F	PRESENTS:		ŕ	
	That	Sc. P	acific	.a RR		
	having an	office at	5820 11/01/	iceville How	ston - TX	
	(hereinaft	er called "Tr	ransferor"), and	· SYH TA	Transferso"	2000 35
•	a (follows:	JOPP .	(here	inafter called	iransteree /•	ayree as
		•		and quit claims t		<i>*</i>
	heirs, su Transferor	ccessors and in and to	l assigns, all	of the right, described proper	title and 1	nterest of
	ITEM /	2000	UST	44-023-19	۷	•
	· ir 2.	2000	UST:	44-023-2	0 .	
_	" 3.	0000	UST	44-023-05	5	f p
•	" 4-	150	UST	44-023-21		-
	TO HAVE AN	D TO HOLD sa	aid property unt	o Transferee, his	(its) heirs,	successors
	and assign		•			
1	The p	roperty conv	eyed hereunder	is presently, loca	ated on the s	premises at
*	against al hereof and condition Trans destruction guidelines recognizes	l claims, lo arising fro of said prope feree furth n purposes or will be fo	osses and liabilem or related to erty.  The acknowledges of and that all collowed for its quipment may con	nt, subsidiaries ity of every kin the existence, restaute property local, state and safe destructitain harmful and sposing of said equals	ed arising from the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of the depth of th	om the date cion, use or ferred for s, codes and ree further
	This the subjec		ontains the enti	re agreement betw	reen the parti	ies covering
	Executed a	nd delivered	this _/5_ day	y of <u>June</u>		•
	ATTEST: By Ho	idi Lopez		By Pare As Its D4	Bren. H. HIMP	(Transferor).
G COH	I 002677			•		
	Attest: / By / O	ucles Va	lles	By Gran	3146 N. Beltlin d Practie TX	NC. ng 75050 (Transferee)
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#### STANDARD FORM 7

# TANK CLOSURE MATERIAL DISPOSAL FORM

PROJECT: UST Removal DATE: 6/15/90
Owner OR OPERATOR OF DISPOSAL FACILITY:
NAME:SAME AS BELOW
ADDRESS: Some as Berow
CITY, STATE, ZIP:
PHONE: (214) 263-7172
NAME OF DISPOSAL FACILITY:
NAME: STH TOOK
ADDRESS: 3146 N. Beltline
CITY, STATE, ZIP: Corond Prairie, TX
PHONE: (214) 863-7172
HAULER:
TYPE OF MATERIAL DISPOSED OF: SOIL LIQUID
APPROXIMATE VOLUME OF MATERIAL RECEIVED:
TYPE OF CONTAINER: 3 - 2,000 CAL. UST; 1-150 GAL. UST
TYPE OF CONTAINER: 3 - 2,000 CAL. UST; 1-150 GAL. UST;  CONTAINERS LABELLED? YESNO
CERTIFIED TEST RESULTS ATTACHED:
DISPOSAL METHOD USED:
I certify that the above statements are true and that the disposal facility has all approvals required for the disposal of hydrocarbon contaminated materials as required by U.S. Environmental Protection Agency, the Texas Water Commission and the Texas Department of Health.  DISPOSAL FACILITY AUTHORIZED SIGNATURE