

**FIRST SEMIANNUAL PERIOD 1996
SEMIANNUAL MONITORING AND SAMPLING REPORT**

**Southern Pacific Transportation Company
4910 Liberty Road Facility
Houston, Texas**

Terranext Project No. 44102069

Prepared For:

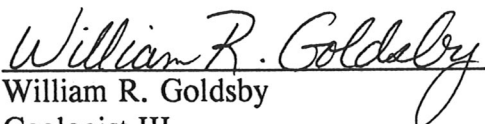
**Southern Pacific Lines
One Market Plaza, Room 712
San Francisco, California 94105**

March 22, 1996

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Houston, Texas**

Prepared By:

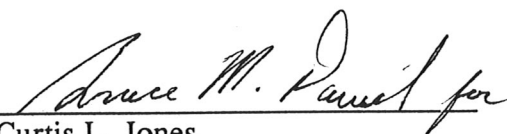


William R. Goldsby
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Reviewed By:



Robert E. Coffman
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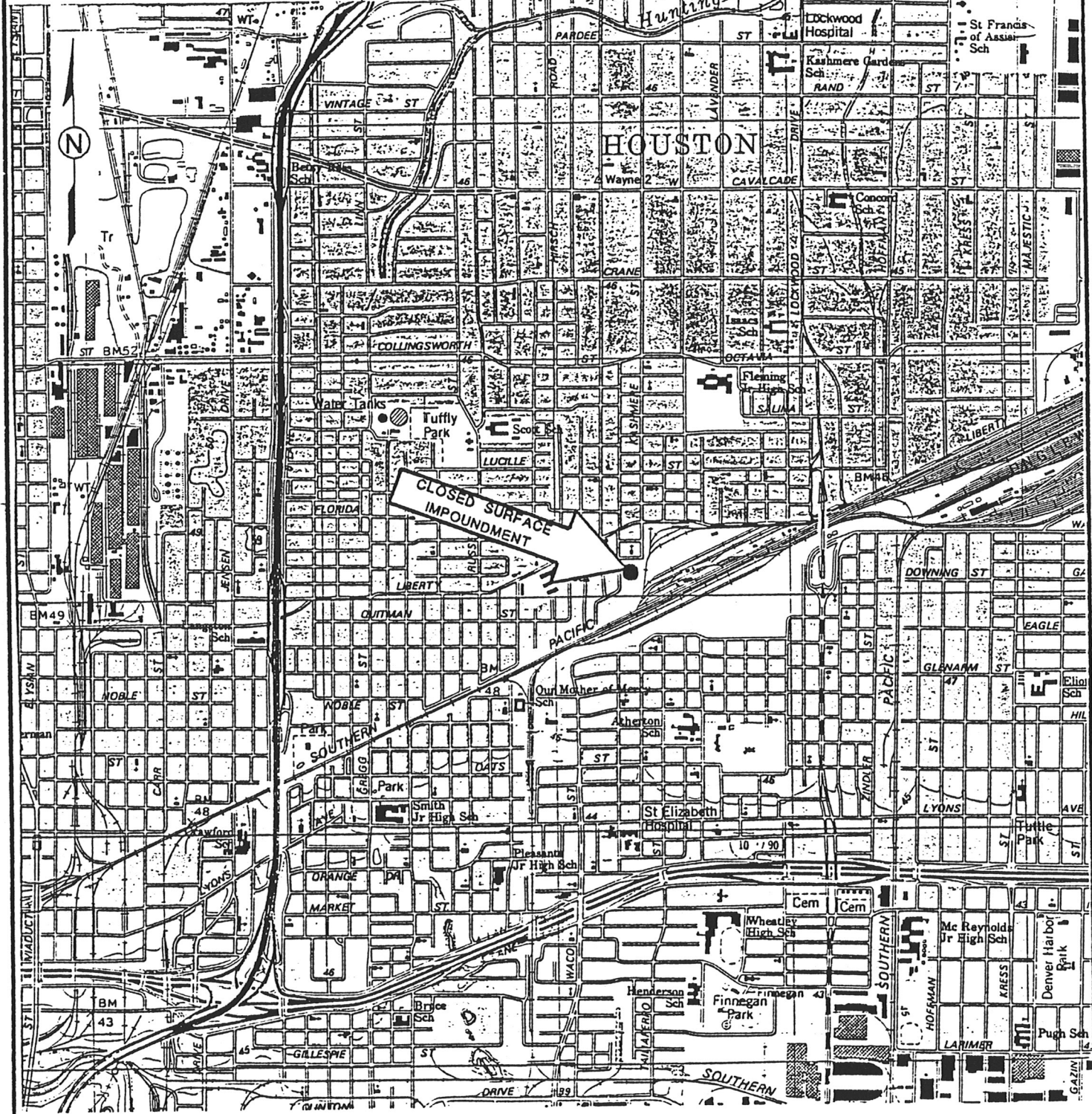
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Appendix B	Field Tracking Report and Ground Water Sampling Forms
Appendix C	Disposal Documentation
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1.0 INTRODUCTION

Between January 23 and 24, 1996, Terranext (formerly *Industrial Compliance*) conducted semiannual ground water sampling at the Southern Pacific Transportation Company (SPTCo) closed surface impoundment, located at 4910 Liberty Road, Houston, Texas (Figure 1). The semiannual sampling event included the sampling of all on-site monitor wells and piezometers. These activities are required as part of the post-closure care for the RCRA Part B Post-Closure Care Permit No. HW-50343-000 issued by the Texas Natural Resource Conservation Commission (TNRCC). This sampling event, analytical data, and data evaluation represent the first semiannual monitoring period for 1996 required under the Permit.

The Uppermost Transmissive Zone (UTZ) and the Secondary Transmissive Zone (STZ) are consistent with the definitions of these same zones as given in the Permit and Compliance Plan No. CP-50343 (Provision I.A). This First Semiannual 1996 Monitoring and Sampling Report has been prepared in accordance with Provision VI.C.2 of the Compliance Plan.

SETTEGAST QUADRANGLE
 TEXAS-HARRIS CO.
 7.5 MINUTE SERIES (TOPOGRAPHIC)



PROJ. #44102069	PAGE#
SCALE: 1" = 60'	DRAWN BY: S.H.
FILE NO. 2069.DWG	DESIGNED BY: E.H.
DATE: 1-15-96	APPROVED BY: E.H.



FIGURE 1
 SITE VICINITY MAP
 SOUTHERN PACIFIC TRANSPORTATION COMPANY
 WOOD PRESERVING WORKS
 4910 LIBERTY ROAD
 HOUSTON, TEXAS

2.0 FIELD ACTIVITIES/SEMIANNUAL GROUND WATER SAMPLING

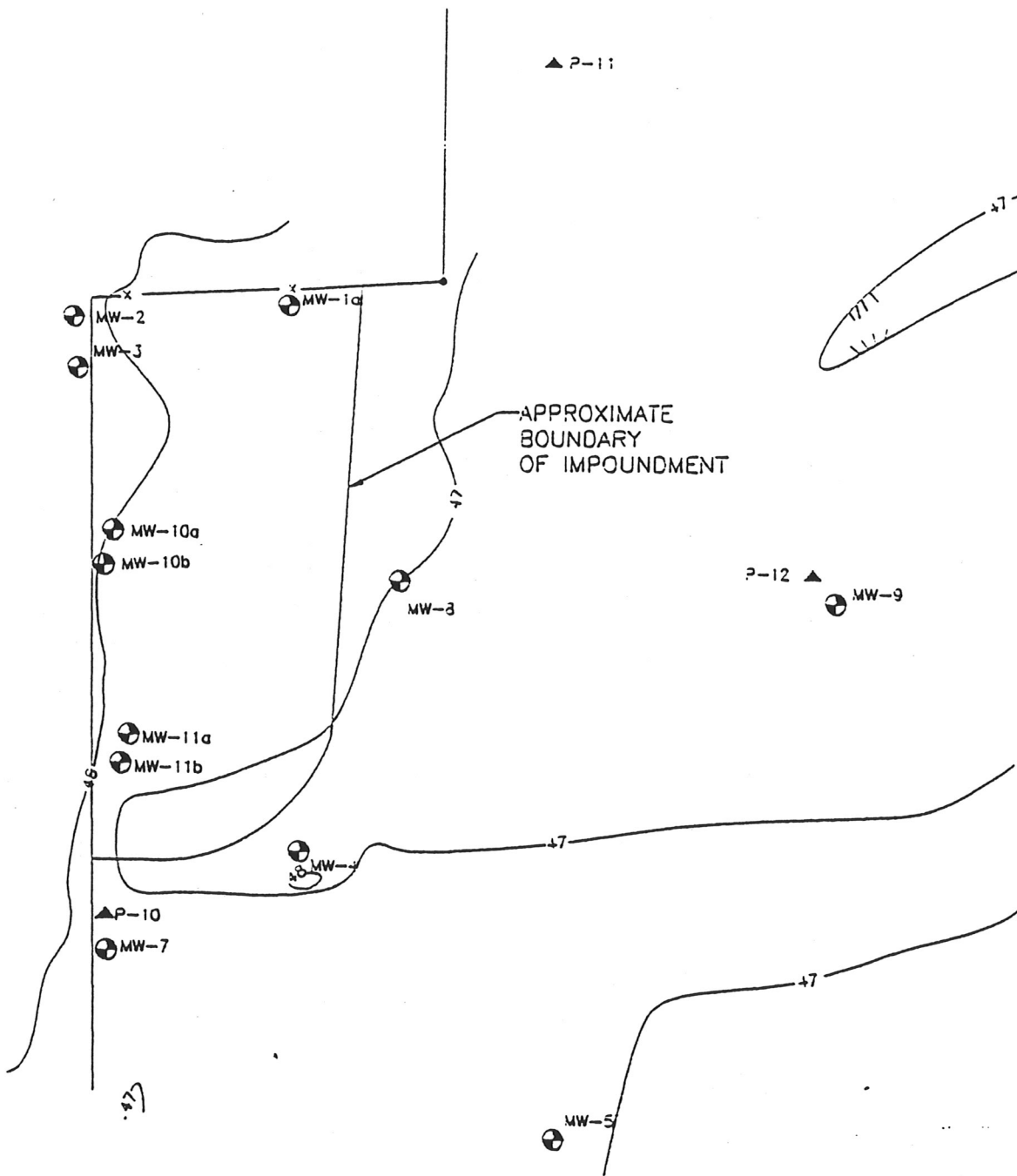
Having previously completed quarterly ground water monitoring for all onsite wells, Terranext conducted the first semiannual period of 1996 ground water sampling of the closed surface impoundment area on January 23 and 24, 1996, with assistance from qualified SPTCO Utility Department personnel. Ten ground water monitor wells (MW-1a, MW-2, MW-3, MW-4, MW-5, MW-7, MW-8, MW-9, MW-10a, and MW-11a) completed in the UTZ (El +35-foot zone) and two monitor wells (MW-10b and MW-11b) and three piezometers (P-10, P-11, and P-12) completed in the STZ (El +15-foot zone) were sampled during the first semiannual sampling event of 1996 (Figure 2).

2.1 Water Level Measurement

On January 23, 1996, static water levels and total well depths were measured in each monitor well and piezometer. The water levels were measured using an electrical sounding device capable of producing measurements to an accuracy of 0.01 inch. Total casing volumes were then calculated based upon the casing diameter and the measured linear feet of water present in each well and piezometer.

2.2 Well Evacuation Procedures

Prior to sampling, a minimum of three casing volumes of ground water were evacuated from each well and piezometer using disposable bailers. The bailers were introduced to and withdrawn from the water table at a sufficiently slow rate to minimize aeration of the recharge water. At the initiation of purging and following the evacuation of each casing volume of ground water, temperature, pH, and specific conductivity were measured and recorded. Once the ground water chemistry parameters were stable to within ± 10 percent following the evacuation of three casing volumes purging was discontinued.



LEGEND

- ▲ PIEZOMETER
- ⊕ MONITOR WELL
- 47 — GROUND SURFACE ELEVATION (FEET ABOVE MEAN SEA LEVEL).

PROJ. #44102069-02	PAGE #
SCALE: 1" = 60'	DRAWN BY: S.H.
FILE NO. 2069.DWG	DESIGNED BY: E.H.
DATE: 1-15-96	APPROVED BY: E.H.



FIGURE 2
 MONITORING WELLS AND PIEZOMETERS
 SOUTHERN PACIFIC TRANSPORTATION COMPANY
 WOOD PRESERVING WORKS
 4910 LIBERTY ROAD
 HOUSTON, TEXAS

2.3 Ground Water Sampling Procedures

Following evacuation, each of the wells and piezometers were allowed to recover to approximately 90 percent of the initial water level prior to sample collection. Following 90 percent recovery, a teflon bailer was slowly lowered and retrieved from each well, minimizing sample aeration. One ground water sample was collected from each well and transferred into two 40-ml VOA glass containers preserved with hydrochloric acid (HCl) and one unpreseved 1-liter amber glass container. Disposable flow regulators were used to transfer ground water from the bailer into the sample containers. Ground water was discharged from the bailer at a slow linear flow and directed along the side of the sample container to reduce sample aeration.

Following collection, each ground water sample was labeled and placed into a cooled ice chest. Under chain-of-custody control, samples were submitted to Pace Environmental Laboratories, Inc. (Pace) of Houston, Texas, and analyzed by U.S. Environmental Protection Agency (EPA) Method 8260 for volatile and EPA Method 8270 for semivolatile organic compounds.

2.4 Decontamination Procedures

The sounding device was decontaminated between wells to prevent the possibility of cross-contamination. The probe and tape were washed with a stiff bristle brush in a detergent and water solution, rinsed in fresh water, and wiped dry with a clean paper towel. Decontamination of sampling equipment was not necessary since disposable bailers were used to collect samples.

2.5 Disposition of Waste

Purged ground water was temporarily contained in 55-gallon drums which were staged adjacent to respective well/piezometer locations pending disposal. On January 26, 1996, the purge water was removed by vacuum truck and transported for disposal at Empak, Inc. in Deer Park, Texas. A copy of the disposal manifest is presented in Appendix C.

3.0 DATA EVALUATION

The Compliance Plan proposed in the site RCRA Part B Application sets forth the requirements for conducting this ground water monitoring program. According to Section VI, Subpart D of the compliance plan, data evaluation is required to be performed within 60 days of the completion of sampling utilizing one of two options, direct comparison with the Ground Water Protection Standard (GWPS), or statistical analysis of the data. The GWPS concentrations are provided in Appendix D of this report. The statistical methods outlined in the RCRA Facility Investigation Work Plan, dated October 14, 1994, are currently under review by the TNRCC. Therefore, pending approval by the TNRCC of a statistical evaluation methodology, the data evaluation is based on direct comparison with the GWPS. The statistical evaluation option may be used following approval.

In order for a well to be compliant with the Compliance Plan, all constituents of concern must be less than or equal to the respective concentration limit. Based on direct comparison of the current analytical data with the GWPS and the requirements of Compliance Plan Section VI.D.1, the following wells are considered compliant with the GWPS:

- * MW-2, MW-5, MW-7, MW-9
- * P-12

The following wells and piezometers are considered noncompliant with the GWPS for this sampling event, with one or more constituents of concern at a concentration greater than the respective GWPS concentration limit:

- * MW-1a, MW-3, MW-4, MW-8, MW-10a, MW-11a
- * MW-10b, MW-11b
- * P-10, P-11

Table 1 summarizes the first semiannual period 1996 analytical results for the monitor wells screened in the El +35-foot zone, and Table 2 summarizes the first semiannual period 1996 analytical results for the monitor wells and piezometers completed in the El +15-foot zone. No constituent of concern was detected at a concentration greater than the respective detection limit in the trip and equipment blanks. A duplicate sample from MW-7 was analyzed; analytical results differing from the primary MW-7 sample are noted on Table 1. Appendix A presents the analytical laboratory report and chain-of-custody documentation for these data. Field tracking reports and ground water sampling forms providing sampling dates, water level elevations, and field water chemistry results for the first semiannual period 1996 sampling event are provided in Appendix B.

TABLE 1
SUMMARY OF ANALYTICAL RESULTS FOR UTZ
(EI +35-FOOT SAND ZONE) MONITOR WELLS
First Semiannual Period 1996

ANALYTICAL RESULTS (µg/L)										
COMPOUND	MW-1a	MW-2	MW-3	MW-4	MW-5	MW-7	MW-8	MW-9	MW-10a	MW-11a
BENZENE	ND<5	ND<5	ND<5	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	ND<5	ND<5	ND<5
1,2-DICHLOROETHANE	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5
METHYLENE CHLORIDE	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5
ETHYLBENZENE	13	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5
TOLUENE	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5
XYLENES	27	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5
ACENAPHTHENE	94	ND<10	80	40	ND<10	ND<10	18	ND<10	36	45
ACENAPHTHYLENE	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10
ANTHRACENE	10	ND<10	ND<10	ND<10	ND<10	ND<10	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	ND<10	ND<10	ND<10
BENZO(A)PYRENE	ND<10	ND<10	ND<10	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	ND<10	ND<10	ND<10
BIS(2-CHLOROETHOXY)METHANE	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10
2-CHLORONAPHTHALENE	ND<10	ND<10	ND<10	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	ND<10	ND<10	ND<10
DIBENZOFURAN	32	ND<10	28	15	ND<10	ND<10	ND<10	ND<10	ND<10	30
2,4-DIMETHYLPHENOL	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10
DI-N-BUTYL PHTHALATE	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10
4,6-DINITRO-O-CRESOL	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
2,4-DINITROTOLUENE	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10
2,6-DINITROTOLUENE	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10
1,2-DIPHENYLHYDRAZINE	ND<10	ND<10	96	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10
FLUORANTHENE	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10
FLUORENE	76	ND<10	55	20	ND<10	ND<10	18	ND<10	18	30
2-METHYLNAPHTHALENE	57	ND<10	ND<10	14	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10
NAPHTHALENE	250	ND<10	94	130	ND<10	ND<10	42	ND<10	210	110
NITROBENZENE	ND<10	ND<10	ND<10	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	ND<50	ND<50	ND<50
N-NITROSODIPHENYLAMINE	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10
PENTACHLOROPHENOL	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
PHENANTHRENE	45	ND<10	16	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	13
PHENOL	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10
PYRENE	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10

µg/L = micrograms per liter

ND = Not Detected at given detection limit

* = MW-7 duplicate sample: All analytes were ND

TABLE 2
SUMMARY OF ANALYTICAL RESULTS FOR STZ
(EI + 15-FOOT SAND ZONE) MONITOR WELLS AND PIEZOMETERS
First Semiannual Period 1996

ANALYTICAL RESULTS (µg/L)					
COMPOUND	P-10	P-11	P-12	MW-10b	MW-11b
BENZENE	ND<5	ND<5	ND<5	ND<5	ND<5
CHLOROBENZENE	ND<5	ND<5	ND<5	ND<5	ND<5
1,2-DICHLOROETHANE	ND<5	ND<5	ND<5	ND<5	ND<5
METHYLENE CHLORIDE	ND<5	ND<5	ND<5	ND<5	ND<5
ETHYLBENZENE	11	ND<5	ND<5	46	12
TOLUENE	ND<5	ND<5	ND<5	13	ND<5
XYLENES	6	ND<5	ND<5	98	12
ACENAPHTHENE	86	24	ND<10	86	180
ACENAPHTHYLENE	ND<10	ND<10	ND<10	ND<10	ND<10
ANTHRACENE	11	ND<10	ND<10	10	22
BENZO(A)ANTHRACENE	ND<10	ND<10	ND<10	ND<10	ND<10
BENZO(A)PYRENE	ND<10	ND<10	ND<10	ND<10	ND<10
BIS(2-ETHYLHEXYL)PHTHALATE	ND<10	ND<10	ND<10	ND<10	ND<10
BIS(2-CHLOROETHOXY)METHANE	ND<10	ND<10	ND<10	ND<10	ND<10
2-CHLORONAPHTHALENE	ND<10	ND<10	ND<10	ND<10	ND<10
CHRYSENE	ND<10	ND<10	ND<10	ND<10	ND<10
DIBENZOFURAN	12	ND<10	ND<10	57	39
2,4-DIMETHYLPHENOL	ND<10	ND<10	ND<10	ND<10	ND<10
DI-N-BUTYL PHTHALATE	ND<10	ND<10	ND<10	ND<10	ND<10
4,6-DINITRO-O-CRESOL	ND<50	ND<50	ND<50	ND<50	ND<50
2,4-DINITROTOLUENE	ND<10	ND<10	ND<10	ND<10	ND<10
2,6-DINITROTOLUENE	ND<10	ND<10	ND<10	ND<10	ND<10
1,2-DIPHENYLHYDRAZINE	ND<10	ND<10	ND<10	ND<10	98
FLUORANTHENE	ND<10	ND<10	ND<10	ND<10	19
FLUORENE	50	ND<10	ND<10	60	140
2-METHYLNAPHTHALENE	38	ND<10	ND<10	87	43
NAPHTHALENE	510	26	ND<10	1300	750
NITROBENZENE	ND<10	ND<10	ND<10	ND<10	ND<10
4-NITROPHENOL	ND<50	ND<50	ND<50	ND<50	ND<50
N-NITROSODIPHENYLAMINE	ND<10	ND<10	ND<10	ND<10	ND<10
PENTACHLOROPHENOL	ND<50	ND<50	ND<50	ND<50	ND<50
PHENANTHRENE	37	ND<10	ND<10	46	160
PHENOL	ND<10	ND<10	ND<10	ND<10	ND<10
PYRENE	ND<10	ND<10	ND<10	ND<10	ND<10

µg/L = micrograms per liter
ND = Not Detected at given detection limit

APPENDIX A

**ANALYTICAL LABORATORY REPORT
AND CHAIN-OF-CUSTODY DOCUMENTATION**

February 15, 1996
Report No.: 00049274
Section A Page 1

LABORATORY ANALYSIS REPORT

CLIENT NAME: TERRANEXT
ADDRESS: 10025 W. TECHNOLOGY BLVD, STE 147
DALLAS, TX 75220-
ATTENTION: ELAINE HANFORD

LIMS CLIENT: 0717 0007
PACE PROJECT: H37937
PACE CLIENT: 621004
P.O. NO: DOC.AUDIT# 187764

SAMPLE ID: HWPW-MW11A-W1H96-P
SAMPLE NO: H421240

DATE SAMPLED: 23-JAN-96 1355
DATE RECEIVED: 25-JAN-96
PROJECT MANAGER: Elessa Sommers

LN	TEST CODE	DETERMINATION	RESULT	UNITS
1	OVTCW2	8260A TCL Volatiles in Water		
		1,2-Dichloroethane	< 5	ug/L
		Benzene	< 5	ug/L
		Chlorobenzene	< 5	ug/L
		Ethylbenzene	< 5	ug/L
		Methylene chloride	< 5	ug/L
		Toluene	< 5	ug/L
		Xylenes (total)	< 5	ug/L
3	OSVTCW	TCL - Semi-volatile Extractables in Water		
		1,2-Diphenylhydrazine	< 10	ug/L
		2,4-Dimethylphenol	< 10	ug/L
		2,4-Dinitrotoluene	< 10	ug/L
		2,6-Dinitrotoluene	< 10	ug/L
		2-Chloronaphthalene	< 10	ug/L
		2-Methylnaphthalene	< 10	ug/L
		4,6-Dinitro-o-cresol	< 50	ug/L
		4-Nitrophenol	< 50	ug/L
		Acenaphthene	46	ug/L
		Acenaphthylene	< 10	ug/L
		Anthracene	< 10	ug/L
		Benzo(a)anthracene	< 10	ug/L
		Benzo(a)pyrene	< 10	ug/L
		Chrysene	< 10	ug/L
		Di-n-butylphthalate	< 10	ug/L
		Dibenzofuran	20	ug/L
		Fluoranthene	< 10	ug/L
		Fluorene	30	ug/L
		N-Nitrosodiphenylamine	< 10	ug/L
		Naphthalene	110	ug/L
		Nitrobenzene	< 10	ug/L
		Pentachlorophenol	< 50	ug/L
		Phenanthrene	13	ug/L
		Phenol	< 10	ug/L
		Pyrene	< 10	ug/L
		bis(2-Chloroethoxy)methane	< 10	ug/L

REPORT OF LABORATORY ANALYSIS

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February 15, 1996
Report No.: 00049274
Section A Page 2

LABORATORY ANALYSIS REPORT

CLIENT NAME: TERRANEXT
SAMPLE ID: HWPW-MW11A-W1H96-P
SAMPLE NO: H421240

LN	TEST CODE	DETERMINATION	RESULT	UNITS
5	1590	bis(2-Ethylhexyl)phthalate Solids, Dissolved at 180C	< 10 844	ug/L mg/L

REPORT OF LABORATORY ANALYSIS

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Pace Analytical

Pace Analytical Services, Inc.
900 Gemini Avenue
Houston, TX 77058
Tel: 713-488-1810
Fax: 713-488-4661

February 15, 1996
Report No.: 00049274
Section A Page 3

LABORATORY ANALYSIS REPORT

CLIENT NAME: TERRANEXT
ADDRESS: 10025 W. TECHNOLOGY BLVD, STE 147
DALLAS, TX 75220-
ATTENTION: ELAINE HANFORD

LIMS CLIENT: 0717 0007
PACE PROJECT: H37937
PACE CLIENT: 621004
P.O. NO: DOC.AUDIT# 187764

SAMPLE ID: HWPW-MW10A-W1H96-P
SAMPLE NO: H421241

DATE SAMPLED: 23-JAN-96 1426
DATE RECEIVED: 25-JAN-96
PROJECT MANAGER: Elessa Sommers

LN	TEST CODE	DETERMINATION	RESULT	UNITS
1	OVTCW2	8260A TCL Volatiles in Water		
		1,2-Dichloroethane	< 5	ug/L
		Benzene	< 5	ug/L
		Chlorobenzene	< 5	ug/L
		Ethylbenzene	< 5	ug/L
		Methylene chloride	< 5	ug/L
		Toluene	< 5	ug/L
		Xylenes (total)	< 5	ug/L
3	OSVTCW	TCL - Semi-volatile Extractables in Water		
		1,2-Diphenylhydrazine	< 10	ug/L
		2,4-Dimethylphenol	< 10	ug/L
		2,4-Dinitrotoluene	< 10	ug/L
		2,6-Dinitrotoluene	< 10	ug/L
		2-Chloronaphthalene	< 10	ug/L
		2-Methylnaphthalene	< 10	ug/L
		4,6-Dinitro-o-cresol	< 50	ug/L
		4-Nitrophenol	< 50	ug/L
		Acenaphthene	36	ug/L
		Acenaphthylene	< 10	ug/L
		Anthracene	< 10	ug/L
		Benzo(a)anthracene	< 10	ug/L
		Benzo(a)pyrene	< 10	ug/L
		Chrysene	< 10	ug/L
		Di-n-butylphthalate	< 10	ug/L
		Dibenzofuran	< 10	ug/L
		Fluoranthene	< 10	ug/L
		Fluorene	18	ug/L
		N-Nitrosodiphenylamine	< 10	ug/L
		Naphthalene	210	ug/L
		Nitrobenzene	< 10	ug/L
		Pentachlorophenol	< 50	ug/L
		Phenanthrene	< 10	ug/L
		Phenol	< 10	ug/L
		Pyrene	< 10	ug/L
		bis(2-Chloroethoxy)methane	< 10	ug/L

REPORT OF LABORATORY ANALYSIS

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February 15, 1996
Report No.: 00049274
Section A Page 4

LABORATORY ANALYSIS REPORT

CLIENT NAME: TERRANEXT
SAMPLE ID: HWPW-MW10A-W1H96-P
SAMPLE NO: H421241

LN	TEST CODE	DETERMINATION	RESULT	UNITS
5	I590	bis(2-Ethylhexyl)phthalate Solids, Dissolved at 180C	< 10 1,038	ug/L mg/L

REPORT OF LABORATORY ANALYSIS

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Pace Analytical

Pace Analytical Services, Inc.
900 Gemini Avenue
Houston, TX 77058
Tel: 713-488-1810
Fax: 713-488-4661

February 15, 1996
Report No.: 00049274
Section A Page 5

LABORATORY ANALYSIS REPORT

CLIENT NAME: TERRANEXT
ADDRESS: 10025 W. TECHNOLOGY BLVD, STE 147
DALLAS, TX 75220-
ATTENTION: ELAINE HANFORD

LIMS CLIENT: 0717 0007
PACE PROJECT: H37937
PACE CLIENT: 621004
P.O. NO: DOC.AUDIT# 187764

SAMPLE ID: HWPW-MW2-W1H96-P
SAMPLE NO: H421242

DATE SAMPLED: 23-JAN-96 1440
DATE RECEIVED: 25-JAN-96
PROJECT MANAGER: Elessa Sommers

LN	TEST CODE	DETERMINATION	RESULT	UNITS
1	OVTCW2	8260A TCL Volatiles in Water		
		1,2-Dichloroethane	< 5	ug/L
		Benzene	< 5	ug/L
		Chlorobenzene	< 5	ug/L
		Ethylbenzene	< 5	ug/L
		Methylene chloride	< 5	ug/L
		Toluene	< 5	ug/L
		Xylenes (total)	< 5	ug/L
3	OSVTCW	TCL - Semi-volatile Extractables in Water		
		1,2-Diphenylhydrazine	< 10	ug/L
		2,4-Dimethylphenol	< 10	ug/L
		2,4-Dinitrotoluene	< 10	ug/L
		2,6-Dinitrotoluene	< 10	ug/L
		2-Chloronaphthalene	< 10	ug/L
		2-Methylnaphthalene	< 10	ug/L
		4,6-Dinitro-o-cresol	< 50	ug/L
		4-Nitrophenol	< 50	ug/L
		Acenaphthene	< 10	ug/L
		Acenaphthylene	< 10	ug/L
		Anthracene	< 10	ug/L
		Benzo(a)anthracene	< 10	ug/L
		Benzo(a)pyrene	< 10	ug/L
		Chrysene	< 10	ug/L
		Di-n-butylphthalate	< 10	ug/L
		Dibenzofuran	< 10	ug/L
		Fluoranthene	< 10	ug/L
		Fluorene	< 10	ug/L
		N-Nitrosodiphenylamine	< 10	ug/L
		Naphthalene	< 10	ug/L
		Nitrobenzene	< 10	ug/L
		Pentachlorophenol	< 50	ug/L
		Phenanthrene	< 10	ug/L
		Phenol	< 10	ug/L
		Pyrene	< 10	ug/L
		bis(2-Chloroethoxy)methane	< 10	ug/L

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LABORATORY ANALYSIS REPORT

CLIENT NAME: TERRANEXT
SAMPLE ID: HWPW-MW2-W1H96-P
SAMPLE NO: H421242

LN	TEST CODE	DETERMINATION	RESULT	UNITS
5	I590	bis(2-Ethylhexyl)phthalate Solids, Dissolved at 180C	< 10 526	ug/L mg/L

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LABORATORY ANALYSIS REPORT

CLIENT NAME: TERRANEXT
ADDRESS: 10025 W. TECHNOLOGY BLVD, STE 147
DALLAS, TX 75220-
ATTENTION: ELAINE HANFORD

LIMS CLIENT: 0717 0007
PACE PROJECT: H37937
PACE CLIENT: 621004
P.O. NO: DOC.AUDIT# 187764

SAMPLE ID: HWPW-MW3-W1H96-P
SAMPLE NO: H421243

DATE SAMPLED: 23-JAN-96 1450
DATE RECEIVED: 25-JAN-96
PROJECT MANAGER: Elessa Sommers

LN	TEST CODE	DETERMINATION	RESULT	UNITS
1	OVTCW2	8260A TCL Volatiles in Water		
		1,2-Dichloroethane	< 5	ug/L
		Benzene	< 5	ug/L
		Chlorobenzene	< 5	ug/L
		Ethylbenzene	< 5	ug/L
		Methylene chloride	< 5	ug/L
		Toluene	< 5	ug/L
		Xylenes (total)	< 5	ug/L
3	OSVTCW	TCL - Semi-volatile Extractables in Water		
		1,2-Diphenylhydrazine	96	ug/L
		2,4-Dimethylphenol	< 10	ug/L
		2,4-Dinitrotoluene	< 10	ug/L
		2,6-Dinitrotoluene	< 10	ug/L
		2-Chloronaphthalene	< 10	ug/L
		2-Methylnaphthalene	< 10	ug/L
		4,6-Dinitro-o-cresol	< 50	ug/L
		4-Nitrophenol	< 50	ug/L
		Acenaphthene	80	ug/L
		Acenaphthylene	< 10	ug/L
		Anthracene	< 10	ug/L
		Benzo(a)anthracene	< 10	ug/L
		Benzo(a)pyrene	< 10	ug/L
		Chrysene	< 10	ug/L
		Di-n-butylphthalate	< 10	ug/L
		Dibenzofuran	28	ug/L
		Fluoranthene	< 10	ug/L
		Fluorene	55	ug/L
		N-Nitrosodiphenylamine	< 10	ug/L
		Naphthalene	94	ug/L
		Nitrobenzene	< 10	ug/L
		Pentachlorophenol	< 50	ug/L
		Phenanthrene	16	ug/L
		Phenol	< 10	ug/L
		Pyrene	< 10	ug/L
		bis(2-Chloroethoxy)methane	< 10	ug/L

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LABORATORY ANALYSIS REPORT

CLIENT NAME: TERRANEXT
SAMPLE ID: HWPW-MW3-W1H96-P
SAMPLE NO: H421243

LN	TEST CODE	DETERMINATION	RESULT	UNITS
5	I590	bis(2-Ethylhexyl)phthalate Solids, Dissolved at 180C	< 10 728	ug/L mg/L

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LABORATORY ANALYSIS REPORT

CLIENT NAME: TERRANEXT
ADDRESS: 10025 W. TECHNOLOGY BLVD, STE 147
DALLAS, TX 75220-
ATTENTION: ELAINE HANFORD

LIMS CLIENT: 0717 0007
PACE PROJECT: H37937
PACE CLIENT: 621004
P.O. NO: DOC.AUDIT# 187764

SAMPLE ID: HWPW-MW1A-W1H96-P
SAMPLE NO: H421244

DATE SAMPLED: 23-JAN-96 1500
DATE RECEIVED: 25-JAN-96
PROJECT MANAGER: Elessa Sommers

LN	TEST CODE	DETERMINATION	RESULT	UNITS
1	OVTW2	8260A TCL Volatiles in Water		
		1,2-Dichloroethane	< 5	ug/L
		Benzene	< 5	ug/L
		Chlorobenzene	< 5	ug/L
		Ethylbenzene	13	ug/L
		Methylene chloride	< 5	ug/L
		Toluene	< 5	ug/L
		Xylenes (total)	27	ug/L
3	OSVTCW	TCL - Semi-volatile Extractables in Water		
		1,2-Diphenylhydrazine	< 10	ug/L
		2,4-Dimethylphenol	< 10	ug/L
		2,4-Dinitrotoluene	< 10	ug/L
		2,6-Dinitrotoluene	< 10	ug/L
		2-Chloronaphthalene	< 10	ug/L
		2-Methylnaphthalene	57	ug/L
		4,6-Dinitro-o-cresol	< 50	ug/L
		4-Nitrophenol	< 50	ug/L
		Acenaphthene	94	ug/L
		Acenaphthylene	< 10	ug/L
		Anthracene	10	ug/L
		Benzo(a)anthracene	< 10	ug/L
		Benzo(a)pyrene	< 10	ug/L
		Chrysene	< 10	ug/L
		Di-n-butylphthalate	< 10	ug/L
		Dibenzofuran	52	ug/L
		Fluoranthene	< 10	ug/L
		Fluorene	76	ug/L
		N-Nitrosodiphenylamine	< 10	ug/L
		Naphthalene	250	ug/L
		Nitrobenzene	< 10	ug/L
		Pentachlorophenol	< 50	ug/L
		Phenanthrene	43	ug/L
		Phenol	< 10	ug/L
		Pyrene	< 10	ug/L
		bis(2-Chloroethoxy)methane	< 10	ug/L

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LABORATORY ANALYSIS REPORT

CLIENT NAME: TERRANEXT
SAMPLE ID: HWPW-MW1A-W1H96-P
SAMPLE NO: H421244

LN	TEST CODE	DETERMINATION	RESULT	UNITS
5	1590	bis(2-Ethylhexyl)phthalate Solids, Dissolved at 180C	< 10 815	ug/L mg/L

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LABORATORY ANALYSIS REPORT

CLIENT NAME: TERRANEXT
ADDRESS: 10025 W. TECHNOLOGY BLVD, STE 147
DALLAS, TX 75220-
ATTENTION: ELAINE HANFORD

SAMPLE ID: HWPW-MW11B-W1H96-P
SAMPLE NO: H421245

LIMS CLIENT: 0717 0007
PACE PROJECT: H37937
PACE CLIENT: 621004
P.O. NO: DOC.AUDIT# 187764

DATE SAMPLED: 23-JAN-96 1515
DATE RECEIVED: 25-JAN-96
PROJECT MANAGER: Elessa Sommers

LN	TEST CODE	DETERMINATION	RESULT	UNITS
1	OVTCW2	8260A TCL Volatiles in Water		
		1,2-Dichloroethane	< 5	ug/L
		Benzene	< 5	ug/L
		Chlorobenzene	< 5	ug/L
		Ethylbenzene	12	ug/L
		Methylene chloride	< 5	ug/L
		Toluene	< 5	ug/L
		Xylenes (total)	12	ug/L
3	OSVTCW	TCL - Semi-volatile Extractables in Water		
		1,2-Diphenylhydrazine	98	ug/L
		2,4-Dimethylphenol	< 10	ug/L
		2,4-Dinitrotoluene	< 10	ug/L
		2,6-Dinitrotoluene	< 10	ug/L
		2-Chloronaphthalene	< 10	ug/L
		2-Methylnaphthalene	43	ug/L
		4,6-Dinitro-o-cresol	< 50	ug/L
		4-Nitrophenol	< 50	ug/L
		Acenaphthene	180	ug/L
		Acenaphthylene	< 10	ug/L
		Anthracene	22	ug/L
		Benzo(a)anthracene	< 10	ug/L
		Benzo(a)pyrene	< 10	ug/L
		Chrysene	< 10	ug/L
		Di-n-butylphthalate	< 10	ug/L
		Dibenzofuran	59	ug/L
		Fluoranthene	19	ug/L
		Fluorene	140	ug/L
		N-Nitrosodiphenylamine	< 10	ug/L
		Naphthalene	750	ug/L
		Nitrobenzene	< 10	ug/L
		Pentachlorophenol	< 50	ug/L
		Phenanthrene	160	ug/L
		Phenol	< 10	ug/L
		Pyrene	< 10	ug/L
		bis(2-Chloroethoxy)methane	< 10	ug/L

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LABORATORY ANALYSIS REPORT

CLIENT NAME: TERRANEXT
SAMPLE ID: HWPW-MW11B-W1H96-P
SAMPLE NO: H421245

LN	TEST CODE	DETERMINATION	RESULT	UNITS
5	I590	bis(2-Ethylhexyl)phthalate Solids, Dissolved at 180C	< 10 580	ug/L mg/L

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LABORATORY ANALYSIS REPORT

CLIENT NAME: TERRANEXT
 ADDRESS: 10025 W. TECHNOLOGY BLVD, STE 147
 DALLAS, TX 75220-
 ATTENTION: ELAINE HANFORD

LIMS CLIENT: 0717 0007
 PACE PROJECT: H37937
 PACE CLIENT: 621004
 P.O. NO: DOC.AUDIT# 187764

SAMPLE ID: HWPW-MW10B-W1H96-P
 SAMPLE NO: H421246

DATE SAMPLED: 23-JAN-96 1615
 DATE RECEIVED: 25-JAN-96
 PROJECT MANAGER: Elessa Sommers

LN	TEST CODE	DETERMINATION	RESULT	UNITS
1	OVTCW2	8260A TCL Volatiles in Water		
		1,2-Dichloroethane	< 5	ug/L
		Benzene	< 5	ug/L
		Chlorobenzene	< 5	ug/L
		Ethylbenzene	46	ug/L
		Methylene chloride	< 5	ug/L
		Toluene	13	ug/L
		Xylenes (total)	98	ug/L
3	OSVTCW	TCL - Semi-volatile Extractables in Water		
		1,2-Diphenylhydrazine	< 10	ug/L
		2,4-Dimethylphenol	< 10	ug/L
		2,4-Dinitrotoluene	< 10	ug/L
		2,6-Dinitrotoluene	< 10	ug/L
		2-Chloronaphthalene	< 10	ug/L
		2-Methylnaphthalene	87	ug/L
		4,6-Dinitro-o-cresol	< 50	ug/L
		4-Nitrophenol	< 50	ug/L
		Acenaphthene	86	ug/L
		Acenaphthylene	< 10	ug/L
		Anthracene	10	ug/L
		Benzo(a)anthracene	< 10	ug/L
		Benzo(a)pyrene	< 10	ug/L
		Chrysene	< 10	ug/L
		Di-n-butylphthalate	< 10	ug/L
		Dibenzofuran	57	ug/L
		Fluoranthene	< 10	ug/L
		Fluorene	60	ug/L
		N-Nitrosodiphenylamine	< 10	ug/L
		Naphthalene	1,300	ug/L
		Nitrobenzene	< 10	ug/L
		Pentachlorophenol	< 50	ug/L
		Phenanthrene	46	ug/L
		Phenol	< 10	ug/L
		Pyrene	< 10	ug/L
		bis(2-Chloroethoxy)methane	< 10	ug/L

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LABORATORY ANALYSIS REPORT

CLIENT NAME: TERRANEXT
SAMPLE ID: HWPW-MW10B-W1H96-P
SAMPLE NO: H421246

LN	TEST CODE	DETERMINATION	RESULT	UNITS
5	1590	bis(2-Ethylhexyl)phthalate Solids, Dissolved at 180C	< 10 1,073	ug/L mg/L

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LABORATORY ANALYSIS REPORT

CLIENT NAME: TERRANEXT
ADDRESS: 10025 W. TECHNOLOGY BLVD, STE 147
DALLAS, TX 75220-
ATTENTION: ELAINE HANFORD

LIMS CLIENT: 0717 0007
PACE PROJECT: H37937
PACE CLIENT: 621004
P.O. NO: DOC.AUDIT# 187764

SAMPLE ID: HWPW-MW4-W1H96-P
SAMPLE NO: H421247

DATE SAMPLED: 23-JAN-96 1515
DATE RECEIVED: 25-JAN-96
PROJECT MANAGER: Elessa Sommers

LN	TEST CODE	DETERMINATION	RESULT	UNITS
1	OVTCW2	8260A TCL Volatiles in Water		
		1,2-Dichloroethane	< 5	ug/L
		Benzene	< 5	ug/L
		Chlorobenzene	< 5	ug/L
		Ethylbenzene	< 5	ug/L
		Methylene chloride	< 5	ug/L
		Toluene	< 5	ug/L
		Xylenes (total)	< 5	ug/L
3	OSVTCW	TCL - Semi-volatile Extractables in Water		
		1,2-Diphenylhydrazine	< 10	ug/L
		2,4-Dimethylphenol	< 10	ug/L
		2,4-Dinitrotoluene	< 10	ug/L
		2,6-Dinitrotoluene	< 10	ug/L
		2-Chloronaphthalene	< 10	ug/L
		2-Methylnaphthalene	14	ug/L
		4,6-Dinitro-o-cresol	< 50	ug/L
		4-Nitrophenol	< 50	ug/L
		Acenaphthene	40	ug/L
		Acenaphthylene	< 10	ug/L
		Anthracene	< 10	ug/L
		Benzo(a)anthracene	< 10	ug/L
		Benzo(a)pyrene	< 10	ug/L
		Chrysene	< 10	ug/L
		Di-n-butylphthalate	< 10	ug/L
		Dibenzofuran	15	ug/L
		Fluoranthene	< 10	ug/L
		Fluorene	20	ug/L
		N-Nitrosodiphenylamine	< 10	ug/L
		Naphthalene	130	ug/L
		Nitrobenzene	< 10	ug/L
		Pentachlorophenol	< 50	ug/L
		Phenanthrene	< 10	ug/L
		Phenol	< 10	ug/L
		Pyrene	< 10	ug/L
		bis(2-Chloroethoxy)methane	< 10	ug/L

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LABORATORY ANALYSIS REPORT

CLIENT NAME: TERRANEXT
SAMPLE ID: HWPW-MW4-W1H96-P
SAMPLE NO: H421247

LN	TEST CODE	DETERMINATION	RESULT	UNITS
5	I590	bis(2-Ethylhexyl)phthalate Solids, Dissolved at 180C	< 10 489	ug/L mg/L

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LABORATORY ANALYSIS REPORT

CLIENT NAME: TERRANEXT
 ADDRESS: 10025 W. TECHNOLOGY BLVD, STE 147
 DALLAS, TX 75220-
 ATTENTION: ELAINE HANFORD

LIMS CLIENT: 0717 0007
 PACE PROJECT: H37937
 PACE CLIENT: 621004
 P.O. NO: DOC.AUDIT# 187764

SAMPLE ID: HWPW-MW7-W1H96-P
 SAMPLE NO: H421248

DATE SAMPLED: 24-JAN-96 0930
 DATE RECEIVED: 25-JAN-96
 PROJECT MANAGER: Elessa Sommers

LN	TEST CODE	DETERMINATION	RESULT	UNITS
1	OVTCW2	8260A TCL Volatiles in Water		
		1,2-Dichloroethane	< 5	ug/L
		Benzene	< 5	ug/L
		Chlorobenzene	< 5	ug/L
		Ethylbenzene	< 5	ug/L
		Methylene chloride	< 5	ug/L
		Toluene	< 5	ug/L
		Xylenes (total)	< 5	ug/L
3	OSVTCW	TCL - Semi-volatile Extractables in Water		
		1,2-Diphenylhydrazine	< 10	ug/L
		2,4-Dimethylphenol	< 10	ug/L
		2,4-Dinitrotoluene	< 10	ug/L
		2,6-Dinitrotoluene	< 10	ug/L
		2-Chloronaphthalene	< 10	ug/L
		2-Methylnaphthalene	< 10	ug/L
		4,6-Dinitro-o-cresol	< 50	ug/L
		4-Nitrophenol	< 50	ug/L
		Acenaphthene	< 10	ug/L
		Acenaphthylene	< 10	ug/L
		Anthracene	< 10	ug/L
		Benzo(a)anthracene	< 10	ug/L
		Benzo(a)pyrene	< 10	ug/L
		Chrysene	< 10	ug/L
		Di-n-butylphthalate	< 10	ug/L
		Dibenzofuran	< 10	ug/L
		Fluoranthene	< 10	ug/L
		Fluorene	< 10	ug/L
		N-Nitrosodiphenylamine	< 10	ug/L
		Naphthalene	< 10	ug/L
		Nitrobenzene	< 10	ug/L
		Pentachlorophenol	< 50	ug/L
		Phenanthrene	< 10	ug/L
		Phenol	< 10	ug/L
		Pyrene	< 10	ug/L
		bis(2-Chloroethoxy)methane	< 10	ug/L

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LABORATORY ANALYSIS REPORT

CLIENT NAME: TERRANEXT
SAMPLE ID: HWPW-MW7-W1H96-P
SAMPLE NO: H421248

LN	TEST CODE	DETERMINATION	RESULT	UNITS
5	1590	bis(2-Ethylhexyl)phthalate Solids, Dissolved at 180C	< 10 505	ug/L mg/L

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LABORATORY ANALYSIS REPORT

CLIENT NAME: TERRANEXT
 ADDRESS: 10025 W. TECHNOLOGY BLVD, STE 147
 DALLAS, TX 75220-
 ATTENTION: ELAINE HANFORD

LIMS CLIENT: 0717 0007
 PACE PROJECT: H37937
 PACE CLIENT: 621004
 P.O. NO: DOC.AUDIT# 187764

SAMPLE ID: HWPW-MW7B-W1H96-P
 SAMPLE NO: H421249

DATE SAMPLED: 24-JAN-96 0940
 DATE RECEIVED: 25-JAN-96
 PROJECT MANAGER: Elessa Sommers

LN	TEST CODE	DETERMINATION	RESULT	UNITS
1	OVTWC2	8260A TCL Volatiles in Water		
		1,2-Dichloroethane	< 5	ug/L
		Benzene	< 5	ug/L
		Chlorobenzene	< 5	ug/L
		Ethylbenzene	< 5	ug/L
		Methylene chloride	< 5	ug/L
		Toluene	< 5	ug/L
		Xylenes (total)	< 5	ug/L
3	OSVTCW	TCL - Semi-volatile Extractables in Water		
		1,2-Diphenylhydrazine	< 10	ug/L
		2,4-Dimethylphenol	< 10	ug/L
		2,4-Dinitrotoluene	< 10	ug/L
		2,6-Dinitrotoluene	< 10	ug/L
		2-Chloronaphthalene	< 10	ug/L
		2-Methylnaphthalene	< 10	ug/L
		4,6-Dinitro-o-cresol	< 50	ug/L
		4-Nitrophenol	< 50	ug/L
		Acenaphthene	< 10	ug/L
		Acenaphthylene	< 10	ug/L
		Anthracene	< 10	ug/L
		Benzo(a)anthracene	< 10	ug/L
		Benzo(a)pyrene	< 10	ug/L
		Chrysene	< 10	ug/L
		Di-n-butylphthalate	< 10	ug/L
		Dibenzofuran	< 10	ug/L
		Fluoranthene	< 10	ug/L
		Fluorene	< 10	ug/L
		N-Nitrosodiphenylamine	< 10	ug/L
		Naphthalene	< 10	ug/L
		Nitrobenzene	< 10	ug/L
		Pentachlorophenol	< 50	ug/L
		Phenanthrene	< 10	ug/L
		Phenol	< 10	ug/L
		Pyrene	< 10	ug/L
		bis(2-Chloroethoxy)methane	< 10	ug/L

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LABORATORY ANALYSIS REPORT

CLIENT NAME: TERRANEXT
SAMPLE ID: HWPW-MW7B-W1H96-P
SAMPLE NO: H421249

LN	TEST CODE	DETERMINATION	RESULT	UNITS
		bis(2-Ethylhexyl)phthalate	< 10	ug/L

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Pace Analytical

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February 15, 1996
Report No.: 00049274
Section A Page 21

LABORATORY ANALYSIS REPORT

CLIENT NAME: TERRANEXT
ADDRESS: 10025 W. TECHNOLOGY BLVD, STE 147
DALLAS, TX 75220-
ATTENTION: ELAINE HANFORD

LIMS CLIENT: 0717 0007
PACE PROJECT: H37937
PACE CLIENT: 621004
P.O. NO: DOC.AUDIT# 187764

SAMPLE ID: HWPW-P10-W1H96-P
SAMPLE NO: H421250

DATE SAMPLED: 24-JAN-96 1055
DATE RECEIVED: 25-JAN-96
PROJECT MANAGER: Elessa Sommers

LN	TEST CODE	DETERMINATION	RESULT	UNITS
1	OVTWC2	8260A TCL Volatiles in Water		
		1,2-Dichloroethane	< 5	ug/L
		Benzene	< 5	ug/L
		Chlorobenzene	< 5	ug/L
		Ethylbenzene	11	ug/L
		Methylene chloride	< 5	ug/L
		Toluene	< 5	ug/L
		Xylenes (total)	6	ug/L
3	OSVTCW	TCL - Semi-volatile Extractables in Water		
		1,2-Diphenylhydrazine	< 10	ug/L
		2,4-Dimethylphenol	< 10	ug/L
		2,4-Dinitrotoluene	< 10	ug/L
		2,6-Dinitrotoluene	< 10	ug/L
		2-Chloronaphthalene	< 10	ug/L
		2-Methylnaphthalene	38	ug/L
		4,6-Dinitro-o-cresol	< 50	ug/L
		4-Nitrophenol	< 50	ug/L
		Acenaphthene	86	ug/L
		Acenaphthylene	< 10	ug/L
		Anthracene	11	ug/L
		Benzo(a)anthracene	< 10	ug/L
		Benzo(a)pyrene	< 10	ug/L
		Chrysene	< 10	ug/L
		Di-n-butylphthalate	< 10	ug/L
		Dibenzofuran	12	ug/L
		Fluoranthene	< 10	ug/L
		Fluorene	50	ug/L
		N-Nitrosodiphenylamine	< 10	ug/L
		Naphthalene	510	ug/L
		Nitrobenzene	< 10	ug/L
		Pentachlorophenol	< 50	ug/L
		Phenanthrene	37	ug/L
		Phenol	< 10	ug/L
		Pyrene	< 10	ug/L
		bis(2-Chloroethoxy)methane	< 10	ug/L

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February 15, 1996
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LABORATORY ANALYSIS REPORT

CLIENT NAME: TERRANEXT
SAMPLE ID: HWPW-P10-W1H96-P
SAMPLE NO: H421250

LN	TEST CODE	DETERMINATION	RESULT	UNITS
5	I590	bis(2-Ethylhexyl)phthalate Solids, Dissolved at 180C	< 10 618	ug/L mg/L

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LABORATORY ANALYSIS REPORT

CLIENT NAME: TERRANEXT
ADDRESS: 10025 W. TECHNOLOGY BLVD, STE 147
DALLAS, TX 75220-
ATTENTION: ELAINE HANFORD

LIMS CLIENT: 0717 0007
PACE PROJECT: H37937
PACE CLIENT: 621004
P.O. NO: DOC.AUDIT# 187764

SAMPLE ID: HWPW-MW5-W1H96-P
SAMPLE NO: H421251

DATE SAMPLED: 24-JAN-96 0950
DATE RECEIVED: 25-JAN-96
PROJECT MANAGER: Elessa Sommers

LN	TEST CODE	DETERMINATION	RESULT	UNITS
1	OVTCW2	8260A TCL Volatiles in Water		
		1,2-Dichloroethane	< 5	ug/L
		Benzene	< 5	ug/L
		Chlorobenzene	< 5	ug/L
		Ethylbenzene	< 5	ug/L
		Methylene chloride	< 5	ug/L
		Toluene	< 5	ug/L
		Xylenes (total)	< 5	ug/L
3	OSVTCW	TCL - Semi-volatile Extractables in Water		
		1,2-Diphenylhydrazine	< 10	ug/L
		2,4-Dimethylphenol	< 10	ug/L
		2,4-Dinitrotoluene	< 10	ug/L
		2,6-Dinitrotoluene	< 10	ug/L
		2-Chloronaphthalene	< 10	ug/L
		2-Methylnaphthalene	< 10	ug/L
		4,6-Dinitro-o-cresol	< 50	ug/L
		4-Nitrophenol	< 50	ug/L
		Acenaphthene	< 10	ug/L
		Acenaphthylene	< 10	ug/L
		Anthracene	< 10	ug/L
		Benzo(a)anthracene	< 10	ug/L
		Benzo(a)pyrene	< 10	ug/L
		Chrysene	< 10	ug/L
		Di-n-butylphthalate	< 10	ug/L
		Dibenzofuran	< 10	ug/L
		Fluoranthene	< 10	ug/L
		Fluorene	< 10	ug/L
		N-Nitrosodiphenylamine	< 10	ug/L
		Naphthalene	< 10	ug/L
		Nitrobenzene	< 10	ug/L
		Pentachlorophenol	< 50	ug/L
		Phenanthrene	< 10	ug/L
		Phenol	< 10	ug/L
		Pyrene	< 10	ug/L
		bis(2-Chloroethoxy)methane	< 10	ug/L

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LABORATORY ANALYSIS REPORT

CLIENT NAME: TERRANEXT
SAMPLE ID: HWPW-MW5-W1H96-P
SAMPLE NO: H421251

LN	TEST CODE	DETERMINATION	RESULT	UNITS
5	1590	bis(2-Ethylhexyl)phthalate Solids, Dissolved at 180C	< 10 294	ug/L mg/L

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LABORATORY ANALYSIS REPORT

CLIENT NAME: TERRANEXT
ADDRESS: 10025 W. TECHNOLOGY BLVD, STE 147
DALLAS, TX 75220-
ATTENTION: ELAINE HANFORD

LIMS CLIENT: 0717 0007
PACE PROJECT: H37937
PACE CLIENT: 621004
P.O. NO: DOC.AUDIT# 187764

SAMPLE ID: HWPW-MW8-W1H96-P
SAMPLE NO: H421252

DATE SAMPLED: 24-JAN-96 1040
DATE RECEIVED: 25-JAN-96
PROJECT MANAGER: Elessa Sommers

LN	TEST CODE	DETERMINATION	RESULT	UNITS
1	OVTCW2	8260A TCL Volatiles in Water		
		1,2-Dichloroethane	< 5	ug/L
		Benzene	< 5	ug/L
		Chlorobenzene	< 5	ug/L
		Ethylbenzene	< 5	ug/L
		Methylene chloride	< 5	ug/L
		Toluene	< 5	ug/L
		Xylenes (total)	< 5	ug/L
3	OSVTCW	TCL - Semi-volatile Extractables in Water		
		1,2-Diphenylhydrazine	< 10	ug/L
		2,4-Dimethylphenol	< 10	ug/L
		2,4-Dinitrotoluene	< 10	ug/L
		2,6-Dinitrotoluene	< 10	ug/L
		2-Chloronaphthalene	< 10	ug/L
		2-Methylnaphthalene	< 10	ug/L
		4,6-Dinitro-o-cresol	< 50	ug/L
		4-Nitrophenol	< 50	ug/L
		Acenaphthene	19	ug/L
		Acenaphthylene	< 10	ug/L
		Anthracene	< 10	ug/L
		Benzo(a)anthracene	< 10	ug/L
		Benzo(a)pyrene	< 10	ug/L
		Chrysene	< 10	ug/L
		Di-n-butylphthalate	< 10	ug/L
		Dibenzofuran	< 10	ug/L
		Fluoranthene	< 10	ug/L
		Fluorene	18	ug/L
		N-Nitrosodiphenylamine	< 10	ug/L
		Naphthalene	42	ug/L
		Nitrobenzene	< 10	ug/L
		Pentachlorophenol	< 50	ug/L
		Phenanthrene	< 10	ug/L
		Phenol	< 10	ug/L
		Pyrene	< 10	ug/L
		bis(2-Chloroethoxy)methane	< 10	ug/L

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LABORATORY ANALYSIS REPORT

CLIENT NAME: TERRANEXT
SAMPLE ID: HWPW-MW8-W1H96-P
SAMPLE NO: H421252

LN	TEST CODE	DETERMINATION	RESULT	UNITS
5	1590	bis(2-Ethylhexyl)phthalate Solids, Dissolved at 180C	< 10 564	ug/L mg/L

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LABORATORY ANALYSIS REPORT

CLIENT NAME: TERRANEXT
ADDRESS: 10025 W. TECHNOLOGY BLVD, STE 147
DALLAS, TX 75220-
ATTENTION: ELAINE HANFORD

LIMS CLIENT: 0717 0007
PACE PROJECT: H37937
PACE CLIENT: 621004
P.O. NO: DOC.AUDIT# 187764

SAMPLE ID: HWPW-MW9-W1H96-P
SAMPLE NO: H421253

DATE SAMPLED: 24-JAN-96 1135
DATE RECEIVED: 25-JAN-96
PROJECT MANAGER: Elessa Sommers

LN	TEST CODE	DETERMINATION	RESULT	UNITS
1	OVTWC2	8260A TCL Volatiles in Water		
		1,2-Dichloroethane	< 5	ug/L
		Benzene	< 5	ug/L
		Chlorobenzene	< 5	ug/L
		Ethylbenzene	< 5	ug/L
		Methylene chloride	< 5	ug/L
		Toluene	< 5	ug/L
		Xylenes (total)	< 5	ug/L
3	OSVTCW	TCL - Semi-volatile Extractables in Water		
		1,2-Diphenylhydrazine	< 10	ug/L
		2,4-Dimethylphenol	< 10	ug/L
		2,4-Dinitrotoluene	< 10	ug/L
		2,6-Dinitrotoluene	< 10	ug/L
		2-Chloronaphthalene	< 10	ug/L
		2-Methylnaphthalene	< 10	ug/L
		4,6-Dinitro-o-cresol	< 50	ug/L
		4-Nitrophenol	< 50	ug/L
		Acenaphthene	< 10	ug/L
		Acenaphthylene	< 10	ug/L
		Anthracene	< 10	ug/L
		Benzo(a)anthracene	< 10	ug/L
		Benzo(a)pyrene	< 10	ug/L
		Chrysene	< 10	ug/L
		Di-n-butylphthalate	< 10	ug/L
		Dibenzofuran	< 10	ug/L
		Fluoranthene	< 10	ug/L
		Fluorene	< 10	ug/L
		N-Nitrosodiphenylamine	< 10	ug/L
		Naphthalene	< 10	ug/L
		Nitrobenzene	< 10	ug/L
		Pentachlorophenol	< 50	ug/L
		Phenanthrene	< 10	ug/L
		Phenol	< 10	ug/L
		Pyrene	< 10	ug/L
		bis(2-Chloroethoxy)methane	< 10	ug/L

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February 15, 1996
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LABORATORY ANALYSIS REPORT

CLIENT NAME: TERRANEXT
SAMPLE ID: HWPW-MW9-W1H96-P
SAMPLE NO: H421253

LN	TEST CODE	DETERMINATION	RESULT	UNITS
5	1590	bis(2-Ethylhexyl)phthalate Solids, Dissolved at 180C	< 10 529	ug/L mg/L

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LABORATORY ANALYSIS REPORT

CLIENT NAME: TERRANEXT
ADDRESS: 10025 W. TECHNOLOGY BLVD, STE 147
DALLAS, TX 75220-
ATTENTION: ELAINE HANFORD

LIMS CLIENT: 0717 0007
PACE PROJECT: H37937
PACE CLIENT: 621004
P.O. NO: DOC.AUDIT# 187764

SAMPLE ID: HWPW-P12-W1H96-P
SAMPLE NO: H421254

DATE SAMPLED: 24-JAN-96 1140
DATE RECEIVED: 25-JAN-96
PROJECT MANAGER: Elessa Sommers

LN	TEST CODE	DETERMINATION	RESULT	UNITS
1	OVTCW2	8260A TCL Volatiles in Water		
		1,2-Dichloroethane	< 5	ug/L
		Benzene	< 5	ug/L
		Chlorobenzene	< 5	ug/L
		Ethylbenzene	< 5	ug/L
		Methylene chloride	< 5	ug/L
		Toluene	< 5	ug/L
		Xylenes (total)	< 5	ug/L
3	OSVTCW	TCL - Semi-volatile Extractables in Water		
		1,2-Diphenylhydrazine	< 10	ug/L
		2,4-Dimethylphenol	< 10	ug/L
		2,4-Dinitrotoluene	< 10	ug/L
		2,6-Dinitrotoluene	< 10	ug/L
		2-Chloronaphthalene	< 10	ug/L
		2-Methylnaphthalene	< 10	ug/L
		4,6-Dinitro-o-cresol	< 50	ug/L
		4-Nitrophenol	< 50	ug/L
		Acenaphthene	< 10	ug/L
		Acenaphthylene	< 10	ug/L
		Anthracene	< 10	ug/L
		Benzo(a)anthracene	< 10	ug/L
		Benzo(a)pyrene	< 10	ug/L
		Chrysene	< 10	ug/L
		Di-n-butylphthalate	< 10	ug/L
		Dibenzofuran	< 10	ug/L
		Fluoranthene	< 10	ug/L
		Fluorene	< 10	ug/L
		N-Nitrosodiphenylamine	< 10	ug/L
		Naphthalene	< 10	ug/L
		Nitrobenzene	< 10	ug/L
		Pentachlorophenol	< 50	ug/L
		Phenanthrene	< 10	ug/L
		Phenol	< 10	ug/L
		Pyrene	< 10	ug/L
		bis(2-Chloroethoxy)methane	< 10	ug/L

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LABORATORY ANALYSIS REPORT

CLIENT NAME: TERRANEXT
SAMPLE ID: HWPW-P12-W1H96-P
SAMPLE NO: H421254

LN	TEST CODE	DETERMINATION	RESULT	UNITS
5	1590	bis(2-Ethylhexyl)phthalate Solids, Dissolved at 180C	< 10 929	ug/L mg/L

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LABORATORY ANALYSIS REPORT

CLIENT NAME: TERRANEXT
ADDRESS: 10025 W. TECHNOLOGY BLVD, STE 147
DALLAS, TX 75220-
ATTENTION: ELAINE HANFORD

LIMS CLIENT: 0717 0007
PACE PROJECT: H37937
PACE CLIENT: 621004
P.O. NO: DOC.AUDIT# 187764

SAMPLE ID: HWPW-P11-W1H96-P
SAMPLE NO: H421255

DATE SAMPLED: 24-JAN-96 1210
DATE RECEIVED: 25-JAN-96
PROJECT MANAGER: Elessa Sommers

LN	TEST CODE	DETERMINATION	RESULT	UNITS
1	OVTWC2	8260A TCL Volatiles in Water		
		1,2-Dichloroethane	< 5	ug/L
		Benzene	< 5	ug/L
		Chlorobenzene	< 5	ug/L
		Ethylbenzene	< 5	ug/L
		Methylene chloride	< 5	ug/L
		Toluene	< 5	ug/L
		Xylenes (total)	< 5	ug/L
3	OSVTCW	TCL - Semi-volatile Extractables in Water		
		1,2-Diphenylhydrazine	< 10	ug/L
		2,4-Dimethylphenol	< 10	ug/L
		2,4-Dinitrotoluene	< 10	ug/L
		2,6-Dinitrotoluene	< 10	ug/L
		2-Chloronaphthalene	< 10	ug/L
		2-Methylnaphthalene	< 10	ug/L
		4,6-Dinitro-o-cresol	< 50	ug/L
		4-Nitrophenol	< 50	ug/L
		Acenaphthene	24	ug/L
		Acenaphthylene	< 10	ug/L
		Anthracene	< 10	ug/L
		Benzo(a)anthracene	< 10	ug/L
		Benzo(a)pyrene	< 10	ug/L
		Chrysene	< 10	ug/L
		Di-n-butylphthalate	< 10	ug/L
		Dibenzofuran	< 10	ug/L
		Fluoranthene	< 10	ug/L
		Fluorene	< 10	ug/L
		N-Nitrosodiphenylamine	< 10	ug/L
		Naphthalene	26	ug/L
		Nitrobenzene	< 10	ug/L
		Pentachlorophenol	< 50	ug/L
		Phenanthrene	< 10	ug/L
		Phenol	< 10	ug/L
		Pyrene	< 10	ug/L
		bis(2-Chloroethoxy)methane	< 10	ug/L

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LABORATORY ANALYSIS REPORT

CLIENT NAME: TERRANEXT
SAMPLE ID: HWPW-P11-W1H96-P
SAMPLE NO: H421255

LN	TEST CODE	DETERMINATION	RESULT	UNITS
5	1590	bis(2-Ethylhexyl)phthalate Solids, Dissolved at 180C	< 10 801	ug/L mg/L

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LABORATORY ANALYSIS REPORT

CLIENT NAME: TERRANEXT
ADDRESS: 10025 W. TECHNOLOGY BLVD, STE 147
DALLAS, TX 75220-
ATTENTION: ELAINE HANFORD

LIMS CLIENT: 0717 0007
PACE PROJECT: H37937
PACE CLIENT: 621004
P.O. NO: DOC.AUDIT# 187764

SAMPLE ID: HWPW-EB-W1H96-P
SAMPLE NO: H421256

DATE SAMPLED: 24-JAN-96 1230
DATE RECEIVED: 25-JAN-96
PROJECT MANAGER: Elessa Sommers

LN	TEST CODE	DETERMINATION	RESULT	UNITS
1	OVTCW2	8260A TCL Volatiles in Water		
		1,2-Dichloroethane	< 5	ug/L
		Benzene	< 5	ug/L
		Chlorobenzene	< 5	ug/L
		Ethylbenzene	< 5	ug/L
		Methylene chloride	< 5	ug/L
		Toluene	< 5	ug/L
		Xylenes (total)	< 5	ug/L
3	OSVTCW	TCL - Semi-volatile Extractables in Water		
		1,2-Diphenylhydrazine	< 10	ug/L
		2,4-Dimethylphenol	< 10	ug/L
		2,4-Dinitrotoluene	< 10	ug/L
		2,6-Dinitrotoluene	< 10	ug/L
		2-Chloronaphthalene	< 10	ug/L
		2-Methylnaphthalene	< 10	ug/L
		4,6-Dinitro-o-cresol	< 50	ug/L
		4-Nitrophenol	< 50	ug/L
		Acenaphthene	< 10	ug/L
		Acenaphthylene	< 10	ug/L
		Anthracene	< 10	ug/L
		Benzo(a)anthracene	< 10	ug/L
		Benzo(a)pyrene	< 10	ug/L
		Chrysene	< 10	ug/L
		Di-n-butylphthalate	< 10	ug/L
		Dibenzofuran	< 10	ug/L
		Fluoranthene	< 10	ug/L
		Fluorene	< 10	ug/L
		N-Nitrosodiphenylamine	< 10	ug/L
		Naphthalene	< 10	ug/L
		Nitrobenzene	< 10	ug/L
		Pentachlorophenol	< 50	ug/L
		Phenanthrene	< 10	ug/L
		Phenol	< 10	ug/L
		Pyrene	< 10	ug/L
		bis(2-Chloroethoxy)methane	< 10	ug/L

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LABORATORY ANALYSIS REPORT

CLIENT NAME: TERRANEXT
SAMPLE ID: HWPW-EB-W1H96-P
SAMPLE NO: H421256

LN	TEST CODE	DETERMINATION	RESULT	UNITS
		bis(2-Ethylhexyl)phthalate	< 10	ug/L

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LABORATORY ANALYSIS REPORT

CLIENT NAME: TERRANEXT
ADDRESS: 10025 W. TECHNOLOGY BLVD, STE 147
DALLAS, TX 75220-
ATTENTION: ELAINE HANFORD

LIMS CLIENT: 0717 0007
PACE PROJECT: H37937
PACE CLIENT: 621004
P.O. NO: DOC.AUDIT# 187764

SAMPLE ID: TRIP BLANK-1
SAMPLE NO: H421633

DATE SAMPLED: 23-JAN-96
DATE RECEIVED: 25-JAN-96
PROJECT MANAGER: Elessa Sommers

LN	TEST CODE	DETERMINATION	RESULT	UNITS
1	OVTCW2	8260A TCL Volatiles in Water		
		1,2-Dichloroethane	< 5	ug/L
		Benzene	< 5	ug/L
		Chlorobenzene	< 5	ug/L
		Ethylbenzene	< 5	ug/L
		Methylene chloride	< 5	ug/L
		Toluene	< 5	ug/L
		Xylenes (total)	< 5	ug/L

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LABORATORY ANALYSIS REPORT

CLIENT NAME: TERRANEXT
ADDRESS: 10025 W. TECHNOLOGY BLVD, STE 147
DALLAS, TX 75220-
ATTENTION: ELAINE HANFORD

LIMS CLIENT: 0717 0007
PACE PROJECT: H37937
PACE CLIENT: 621004
P.O. NO: DOC.AUDIT# 187764

SAMPLE ID: TRIP BLANK-2
SAMPLE NO: H421634

DATE SAMPLED: 23-JAN-96
DATE RECEIVED: 25-JAN-96
PROJECT MANAGER: Elessa Sommers

LN	TEST CODE	DETERMINATION	RESULT	UNITS
1	OVTCW2	8260A TCL Volatiles in Water		
		1,2-Dichloroethane	< 5	ug/L
		Benzene	< 5	ug/L
		Chlorobenzene	< 5	ug/L
		Ethylbenzene	< 5	ug/L
		Methylene chloride	< 5	ug/L
		Toluene	< 5	ug/L
		Xylenes (total)	< 5	ug/L

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February 15, 1996
Report No.: 00049274
Section A Page 37

LABORATORY ANALYSIS REPORT

CLIENT NAME: TERRANEXT
ADDRESS: 10025 W. TECHNOLOGY BLVD, STE 147
DALLAS, TX 75220-
ATTENTION: ELAINE HANFORD

LIMS CLIENT: 0717 0007
PACE PROJECT: H37937
PACE CLIENT: 621004
P.O. NO: DOC.AUDIT# 187764

SAMPLE ID: TRIP BLANK-3
SAMPLE NO: H421635

DATE SAMPLED: 23-JAN-96
DATE RECEIVED: 25-JAN-96
PROJECT MANAGER: Elessa Sommers

LN	TEST CODE	DETERMINATION	RESULT	UNITS
1	OVTCW2	8260A TCL Volatiles in Water		
		1,2-Dichloroethane	< 5	ug/L
		Benzene	< 5	ug/L
		Chlorobenzene	< 5	ug/L
		Ethylbenzene	< 5	ug/L
		Methylene chloride	< 5	ug/L
		Toluene	< 5	ug/L
		Xylenes (total)	< 5	ug/L

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LABORATORY ANALYSIS REPORT

CLIENT NAME: TERRANEXT
ADDRESS: 10025 W. TECHNOLOGY BLVD, STE 147
DALLAS, TX 75220-
ATTENTION: ELAINE HANFORD

LIMS CLIENT: 0717 0007
PACE PROJECT: H37937
PACE CLIENT: 621004
P.O. NO: DOC.AUDIT# 187764

SAMPLE ID: TRIP BLANK-4
SAMPLE NO: H421636

DATE SAMPLED: 23-JAN-96
DATE RECEIVED: 25-JAN-96
PROJECT MANAGER: Elessa Sommers

LN	TEST CODE	DETERMINATION	RESULT	UNITS
1	OVTCW2	8260A TCL Volatiles in Water		
		1,2-Dichloroethane	< 5	ug/L
		Benzene	< 5	ug/L
		Chlorobenzene	< 5	ug/L
		Ethylbenzene	< 5	ug/L
		Methylene chloride	< 5	ug/L
		Toluene	< 5	ug/L
		Xylenes (total)	< 5	ug/L

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SUPPLEMENTAL INFORMATION

LCSR				SAMPLE PREPARATION			SAMPLE ANALYSIS			
LN	TEST CODE	BLNK BATCH	DUP/MS MS/MSD BATCH	LR-METHOD	DATE/TIME	ANALYST	LR-METHOD	DATE/TIME	ANALYST	INSTRUMENT
SAMPLE ID: HWPW-MW11A-W1H96-P				SAMPLE NO: H421240						
1	OVTCW2	59851	59851 NA				19-8260A	03-FEB-96 1457	MH	GCMSY
5	I590	59570	59570 NA				02-160.1	26-JAN-96 1900	RDR	008WAT
3	OSVTCW	59632	59632	19-3510B	30-JAN-96 0800	RE	19-8270B	07-FEB-96 1427	ASP	GCMSZ
SAMPLE ID: HWPW-MW10A-W1H96-P				SAMPLE NO: H421241						
1	OVTCW2	59851	59851 NA				19-8260A	03-FEB-96 1534	MH	GCMSY
5	I590	59570	59570 NA				02-160.1	26-JAN-96 1900	RDR	008WAT
3	OSVTCW	59632	59632	19-3510B	30-JAN-96 0800	RE	19-8270B	01-FEB-96 1811	ASP	GCMSZ
SAMPLE ID: HWPW-MW2-W1H96-P				SAMPLE NO: H421242						
1	OVTCW2	59851	59851 NA				19-8260A	03-FEB-96 1610	MH	GCMSY
5	I590	59570	59570 NA				02-160.1	26-JAN-96 1900	RDR	008WAT
3	OSVTCW	59632	59632	19-3510B	30-JAN-96 0800	RE	19-8270B	01-FEB-96 1904	ASP	GCMSZ
SAMPLE ID: HWPW-MW3-W1H96-P				SAMPLE NO: H421243						
1	OVTCW2	59851	59851 NA				19-8260A	03-FEB-96 1646	MH	GCMSY
5	I590	59570	59570 NA				02-160.1	26-JAN-96 1900	RDR	008WAT
3	OSVTCW	59632	59632	19-3510B	30-JAN-96 0800	RE	19-8270B	01-FEB-96 1957	ASP	GCMSZ
SAMPLE ID: HWPW-MW1A-W1H96-P				SAMPLE NO: H421244						
1	OVTCW2	59851	59851 NA				19-8260A	03-FEB-96 1723	MH	GCMSY
5	I590	59571	59571 NA				02-160.1	26-JAN-96 1900	RDR	008WAT
3	OSVTCW	59632	59632	19-3510B	30-JAN-96 0800	RE	19-8270B	07-FEB-96 1849	ASP	GCMSZ
SAMPLE ID: HWPW-MW11B-W1H96-P				SAMPLE NO: H421245						
1	OVTCW2	59851	59851 NA				19-8260A	03-FEB-96 1759	MH	GCMSY
5	I590	59571	59571 NA				02-160.1	26-JAN-96 1900	RDR	008WAT
3	OSVTCW	59632	59632	19-3510B	30-JAN-96 0800	RE	19-8270B	01-FEB-96 2143	ASP	GCMSZ
SAMPLE ID: HWPW-MW10B-W1H96-P				SAMPLE NO: H421246						
1	OVTCW2	59918	59851 NA				19-8260A	05-FEB-96 2013	JC	GCMSY
5	I590	59571	59571 NA				02-160.1	26-JAN-96 1900	RDR	008WAT
3	OSVTCW	59632	59632	19-3510B	30-JAN-96 0800	RE	19-8270B	06-FEB-96 1611	ASP	GCMSZ

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SUPPLEMENTAL INFORMATION

LN	TEST CODE	LCSR	DUP/MS	SAMPLE PREPARATION			SAMPLE ANALYSIS			
		BLNK BATCH	MS/MSD BATCH	LR-METHOD	DATE/TIME	ANALYST	LR-METHOD	DATE/TIME	ANALYST	INSTRUMENT
SAMPLE ID: HWPW-MW4-W1H96-P		SAMPLE NO: H421247								
1	OVTCW2	59851	59851	NA			19-8260A	03-FEB-96 1912	MH	GCMSY
5	I590	59571	59571	NA			02-160.1	26-JAN-96 1900	RDR	008WAT
3	OSVTCW	59632	59632	19-3510B	30-JAN-96 0800	RE	19-8270B	13-FEB-96 1017	CAH	GCMSZ
SAMPLE ID: HWPW-MW7-W1H96-P		SAMPLE NO: H421248								
1	OVTCW2	59851	59851	NA			19-8260A	03-FEB-96 1948	MH	GCMSY
5	I590	59571	59571	NA			02-160.1	26-JAN-96 1900	RDR	008WAT
3	OSVTCW	59632	59632	19-3510B	30-JAN-96 0800	RE	19-8270B	06-FEB-96 1757	ASP	GCMSZ
SAMPLE ID: HWPW-MW7B-W1H96-P		SAMPLE NO: H421249								
1	OVTCW2	59851	59851	NA			19-8260A	03-FEB-96 2024	MH	GCMSY
3	OSVTCW	59632	59632	19-3510B	30-JAN-96 0800	RE	19-8270B	07-FEB-96 1335	ASP	GCMSZ
SAMPLE ID: HWPW-P10-W1H96-P		SAMPLE NO: H421250								
1	OVTCW2	59851	59851	NA			19-8260A	03-FEB-96 2100	MH	GCMSY
5	I590	59571	59571	NA			02-160.1	26-JAN-96 1900	RDR	008WAT
3	OSVTCW	59632	59632	19-3510B	30-JAN-96 0800	RE	19-8270B	07-FEB-96 1059	ASP	GCMSZ
SAMPLE ID: HWPW-MW5-W1H96-P		SAMPLE NO: H421251								
1	OVTCW2	60083	59851	NA			19-8260A	06-FEB-96 1643	JC	GCMSY
5	I590	59571	59571	NA			02-160.1	26-JAN-96 1900	RDR	008WAT
3	OSVTCW	59632	59632	19-3510B	30-JAN-96 0800	RE	19-8270B	07-FEB-96 2033	ASP	GCMSZ
SAMPLE ID: HWPW-MW8-W1H96-P		SAMPLE NO: H421252								
1	OVTCW2	59851	59851	NA			19-8260A	03-FEB-96 2213	MH	GCMSY
5	I590	59571	59571	NA			02-160.1	26-JAN-96 1900	RDR	008WAT
3	OSVTCW	59632	59632	19-3510B	30-JAN-96 0800	RE	19-8270B	02-FEB-96 1835	ASP	GCMSZ
SAMPLE ID: HWPW-MW9-W1H96-P		SAMPLE NO: H421253								
1	OVTCW2	59851	59851	NA			19-8260A	03-FEB-96 2249	MH	GCMSY
5	I590	59571	59571	NA			02-160.1	26-JAN-96 1900	RDR	008WAT
3	OSVTCW	59632	59632	19-3510B	30-JAN-96 0800	RE	19-8270B	02-FEB-96 1928	ASP	GCMSZ

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SUPPLEMENTAL INFORMATION

LN	TEST CODE	LCSR BLNK BATCH	DUP/MS MS/MSD BATCH	LR-METHOD	DATE/TIME	ANALYST	LR-METHOD	DATE/TIME	ANALYST	INSTRUMENT
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SAMPLE ID: HWPW-P12-W1H96-P

SAMPLE NO: H421254

1	OVTCW2	59851	59851	NA			19-8260A	03-FEB-96 2345	MH	GCM5Y
5	I590	59571	59571	NA			02-160.1	26-JAN-96 1900	RDR	008WAT
3	OSVTCW	59632	59632	19-3510B	30-JAN-96 0800	RE	19-8270B	07-FEB-96 1704	ASP	GCM5Z

SAMPLE ID: HWPW-P11-W1H96-P

SAMPLE NO: H421255

1	OVTCW2	59851	59851	NA			19-8260A	04-FEB-96 0001	MH	GCM5Y
5	I590	59571	59571	NA			02-160.1	26-JAN-96 1900	RDR	008WAT
3	OSVTCW	59632	59632	19-3510B	30-JAN-96 0800	RE	19-8270B	02-FEB-96 1649	ASP	GCM5Z

SAMPLE ID: HWPW-EB-W1H96-P

SAMPLE NO: H421256

1	OVTCW2	59851	59851	NA			19-8260A	04-FEB-96 0037	MH	GCM5Y
3	OSVTCW	59632	59632	19-3510B	30-JAN-96 0800	RE	19-8270B	02-FEB-96 1742	ASP	GCM5Z

SAMPLE ID: TRIP BLANK-1

SAMPLE NO: H421633

1	OVTCW2	59918	59851	NA			19-8260A	05-FEB-96 1813	JC	GCM5Y
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SAMPLE ID: TRIP BLANK-2

SAMPLE NO: H421634

1	OVTCW2	59918	59851	NA			19-8260A	05-FEB-96 1843	JC	GCM5Y
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SAMPLE ID: TRIP BLANK-3

SAMPLE NO: H421635

1	OVTCW2	59918	59851	NA			19-8260A	05-FEB-96 1913	JC	GCM5Y
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SAMPLE ID: TRIP BLANK-4

SAMPLE NO: H421636

1	OVTCW2	59918	59918	NA			19-8260A	05-FEB-96 1943	JC	GCM5Y
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LR Method Literature Reference

- 02 EPA-Methods for Chemical Analysis of Water & Wastes, 1984.
- 19 EPA-Test Methods for Evaluating Solid Waste, 3rd ed, Nov. 1986 and updates

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SURROGATE STANDARD RECOVERY

LN	TEST CODE	SURROGATE COMPOUND	PERCENT RECOVERY	ACCEPTANCE LIMITS	REF LN
SAMPLE ID:		HWPW-MW11A-W1H96-P	SAMPLE NO: H421240		
2	\$VOA2W	GC/MS Volatiles Surrogates (8260)			1
		4-Bromofluorobenzene	98	-	
		Dibromofluoromethane	102	-	
		Toluene-d8	100	-	
4	\$BNAW	GC/MS BNA Surrogates			3
		2,4,6-Tribromophenol	36	-	
		2-Fluorobiphenyl	28 *	-	
		2-Fluorophenol	10 *	-	
		Nitrobenzene-d5	25 *	-	
		Phenol-d5	8 *	-	
		p-Terphenyl-d14	67	-	
* The surrogates were out of range due to matrix interference, which was confirmed by re-analysis and re-extract.					
SAMPLE ID:		HWPW-MW10A-W1H96-P	SAMPLE NO: H421241		
2	\$VOA2W	GC/MS Volatiles Surrogates (8260)			1
		4-Bromofluorobenzene	98	-	
		Dibromofluoromethane	108	-	
		Toluene-d8	103	-	
4	\$BNAW	GC/MS BNA Surrogates			3
		2,4,6-Tribromophenol	67	-	
		2-Fluorobiphenyl	47	-	
		2-Fluorophenol	18 *	-	
		Nitrobenzene-d5	26 *	-	
		Phenol-d5	13	-	
		p-Terphenyl-d14	65	-	
* The surrogate recovery was outside the acceptance limits; however, 1 base/neutral and 1 acid surrogate are allowed to be outside limits, per lab QC policy.					
SAMPLE ID:		HWPW-MW2-W1H96-P	SAMPLE NO: H421242		
2	\$VOA2W	GC/MS Volatiles Surrogates (8260)			1
		4-Bromofluorobenzene	102	-	
		Dibromofluoromethane	108	-	
		Toluene-d8	103	-	
4	\$BNAW	GC/MS BNA Surrogates			3
		2,4,6-Tribromophenol	49	-	
		2-Fluorobiphenyl	54	-	
		2-Fluorophenol	30	-	
		Nitrobenzene-d5	35 *	-	

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SURROGATE STANDARD RECOVERY

TEST LN	TEST CODE	SURROGATE COMPOUND	PERCENT RECOVERY	ACCEPTANCE LIMITS	REF LN
SAMPLE ID: HWPW-MW2-W1H96-P			SAMPLE NO: H421242		
		Phenol-d5	22	-	
		p-Terphenyl-d14	50	-	
		* The surrogate recovery was outside the acceptance limits; however, 1 base/neutral and 1 acid surrogate are allowed to be outside limits, per lab QC policy.			
SAMPLE ID: HWPW-MW3-W1H96-P			SAMPLE NO: H421243		
2	\$VOA2W	GC/MS Volatiles Surrogates (8260)			1
		4-Bromofluorobenzene	98	-	
		Dibromofluoromethane	108	-	
		Toluene-d8	104	-	
4	\$BNAW	GC/MS BNA Surrogates			3
		2,4,6-Tribromophenol	56	-	
		2-Fluorobiphenyl	51	-	
		2-Fluorophenol	19 *	-	
		Nitrobenzene-d5	28 *	-	
		Phenol-d5	15	-	
		p-Terphenyl-d14	56	-	
		* The surrogate recovery was outside the acceptance limits; however, 1 base/neutral and 1 acid surrogate are allowed to be outside limits, per lab QC policy.			
SAMPLE ID: HWPW-MW1A-W1H96-P			SAMPLE NO: H421244		
2	\$VOA2W	GC/MS Volatiles Surrogates (8260)			1
		4-Bromofluorobenzene	98	-	
		Dibromofluoromethane	107	-	
		Toluene-d8	104	-	
4	\$BNAW	GC/MS BNA Surrogates			3
		2,4,6-Tribromophenol	59	-	
		2-Fluorobiphenyl	24 *	-	
		2-Fluorophenol	10 *	-	
		Nitrobenzene-d5	22 *	-	
		Phenol-d5	8 *	-	
		p-Terphenyl-d14	60	-	
		* The surrogates were out of range due to matrix interference, which was confirmed by re-analysis and re-extract.			

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SURROGATE STANDARD RECOVERY

LN	TEST CODE	SURROGATE COMPOUND	PERCENT RECOVERY	ACCEPTANCE LIMITS	REF LN
SAMPLE ID: HWPW-MW11B-W1H96-P			SAMPLE NO: H421245		
2	\$VOA2W	GC/MS Volatiles Surrogates (8260)			1
		4-Bromofluorobenzene	95	-	
		Dibromofluoromethane	109	-	
		Toluene-d8	102	-	
4	\$BNAW	GC/MS BNA Surrogates			3
		2,4,6-Tribromophenol	63	-	
		2-Fluorobiphenyl	54	-	
		2-Fluorophenol	16 *	-	
		Nitrobenzene-d5	33 *	-	
		Phenol-d5	13	-	
		p-Terphenyl-d14	67	-	
* The surrogate recovery was outside the acceptance limits; however, 1 base/neutral and 1 acid surrogate are allowed to be outside limits, per lab QC policy.					
SAMPLE ID: HWPW-MW10B-W1H96-P			SAMPLE NO: H421246		
2	\$VOA2W	GC/MS Volatiles Surrogates (8260)			1
		1,2-Dichloroethane-d4	105	-	
		4-Bromofluorobenzene	101	-	
		Toluene-d8	102	-	
4	\$BNAW	GC/MS BNA Surrogates			3
		2,4,6-Tribromophenol	13	-	
		2-Fluorobiphenyl	49	-	
		2-Fluorophenol	16	-	
		Nitrobenzene-d5	59	-	
		Phenol-d5	20	-	
		p-Terphenyl-d14	56	-	
SAMPLE ID: HWPW-MW4-W1H96-P			SAMPLE NO: H421247		
2	\$VOA2W	GC/MS Volatiles Surrogates (8260)			1
		4-Bromofluorobenzene	97	-	
		Dibromofluoromethane	108	-	
		Toluene-d8	105	-	
4	\$BNAW	GC/MS BNA Surrogates			3
		2,4,6-Tribromophenol	68	-	
		2-Fluorobiphenyl	65	-	
		2-Fluorophenol	37	-	
		Nitrobenzene-d5	51	-	
		Phenol-d5	30	-	
		p-Terphenyl-d14	79	-	

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SURROGATE STANDARD RECOVERY

LN	TEST CODE	SURROGATE COMPOUND	PERCENT RECOVERY	ACCEPTANCE LIMITS	REF LN
SAMPLE ID:		HWPW-MW7-W1H96-P	SAMPLE NO: H421248		
2	\$VOA2W	GC/MS Volatiles Surrogates (8260)			1
		4-Bromofluorobenzene	97	-	
		Dibromofluoromethane	111	-	
		Toluene-d8	102	-	
4	\$BNAW	GC/MS BNA Surrogates			3
		2,4,6-Tribromophenol	16	-	
		2-Fluorobiphenyl	53	-	
		2-Fluorophenol	16	-	
		Nitrobenzene-d5	53	-	
		Phenol-d5	18	-	
		p-Terphenyl-d14	60	-	
SAMPLE ID:		HWPW-MW7B-W1H96-P	SAMPLE NO: H421249		
2	\$VOA2W	GC/MS Volatiles Surrogates (8260)			1
		4-Bromofluorobenzene	98	-	
		Dibromofluoromethane	111	-	
		Toluene-d8	103	-	
4	\$BNAW	GC/MS BNA Surrogates			3
		2,4,6-Tribromophenol	60	-	
		2-Fluorobiphenyl	34	-	
		2-Fluorophenol	18	-	
		Nitrobenzene-d5	37	-	
		Phenol-d5	13	-	
		p-Terphenyl-d14	80	-	
SAMPLE ID:		HWPW-P10-W1H96-P	SAMPLE NO: H421250		
2	\$VOA2W	GC/MS Volatiles Surrogates (8260)			1
		4-Bromofluorobenzene	95	-	
		Dibromofluoromethane	113	-	
		Toluene-d8	104	-	
4	\$BNAW	GC/MS BNA Surrogates			3
		2,4,6-Tribromophenol	74	-	
		2-Fluorobiphenyl	40	-	
		2-Fluorophenol	19	-	
		Nitrobenzene-d5	46	-	
		Phenol-d5	15	-	
		p-Terphenyl-d14	85	-	

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SURROGATE STANDARD RECOVERY

LN	TEST CODE	SURROGATE COMPOUND	PERCENT RECOVERY	ACCEPTANCE LIMITS	REF LN
SAMPLE ID: HWPW-MW5-W1H96-P			SAMPLE NO: H421251		
2	\$VOA2W	GC/MS Volatiles Surrogates (8260)			1
		1,2-Dichloroethane-d4	100	-	
		4-Bromofluorobenzene	99	-	
		Toluene-d8	100	-	
4	\$BNAW	GC/MS BNA Surrogates			3
		2,4,6-Tribromophenol	70	-	
		2-Fluorobiphenyl	43	-	
		2-Fluorophenol	20	-	
		Nitrobenzene-d5	43	-	
		Phenol-d5	14	-	
		p-Terphenyl-d14	80	-	
SAMPLE ID: HWPW-MW8-W1H96-P			SAMPLE NO: H421252		
2	\$VOA2W	GC/MS Volatiles Surrogates (8260)			1
		4-Bromofluorobenzene	98	-	
		Dibromofluoromethane	112	-	
		Toluene-d8	101	-	
4	\$BNAW	GC/MS BNA Surrogates			3
		2,4,6-Tribromophenol	62	-	
		2-Fluorobiphenyl	38	-	
		2-Fluorophenol	19	-	
		Nitrobenzene-d5	46	-	
		Phenol-d5	16	-	
		p-Terphenyl-d14	73	-	
SAMPLE ID: HWPW-MW9-W1H96-P			SAMPLE NO: H421253		
2	\$VOA2W	GC/MS Volatiles Surrogates (8260)			1
		4-Bromofluorobenzene	98	-	
		Dibromofluoromethane	115	-	
		Toluene-d8	103	-	
4	\$BNAW	GC/MS BNA Surrogates			3
		2,4,6-Tribromophenol	47	-	
		2-Fluorobiphenyl	19 *	-	
		2-Fluorophenol	11 *	-	
		Nitrobenzene-d5	19 *	-	
		Phenol-d5	9 *	-	
		p-Terphenyl-d14	52	-	

* The surrogates were out of range due to matrix interference, which was confirmed by re-analysis and re-extract.

REPORT OF LABORATORY ANALYSIS

February 15, 1996
 Report No.: 00049274
 Section C Page 6

SURROGATE STANDARD RECOVERY

LN	TEST CODE	SURROGATE COMPOUND	PERCENT RECOVERY	ACCEPTANCE LIMITS	REF LN
SAMPLE ID: HWPW-P12-W1H96-P			SAMPLE NO: H421254		
2	\$VOA2W	GC/MS Volatiles Surrogates (8260)			1
		4-Bromofluorobenzene	97	-	
		Dibromofluoromethane	114	-	
		Toluene-d8	105	-	
4	\$BNAW	GC/MS BNA Surrogates			3
		2,4,6-Tribromophenol	63	-	
		2-Fluorobiphenyl	34	-	
		2-Fluorophenol	20	-	
		Nitrobenzene-d5	40	-	
		Phenol-d5	15	-	
		p-Terphenyl-d14	87	-	
SAMPLE ID: HWPW-P11-W1H96-P			SAMPLE NO: H421255		
2	\$VOA2W	GC/MS Volatiles Surrogates (8260)			1
		4-Bromofluorobenzene	97	-	
		Dibromofluoromethane	115	-	
		Toluene-d8	102	-	
4	\$BNAW	GC/MS BNA Surrogates			3
		2,4,6-Tribromophenol	53	-	
		2-Fluorobiphenyl	21 *	-	
		2-Fluorophenol	12 *	-	
		Nitrobenzene-d5	19 *	-	
		Phenol-d5	10	-	
		p-Terphenyl-d14	58	-	
		* The surrogates were out of range due to matrix interference, which was confirmed by re-analysis and re-extract.			
SAMPLE ID: HWPW-EB-W1H96-P			SAMPLE NO: H421256		
2	\$VOA2W	GC/MS Volatiles Surrogates (8260)			1
		4-Bromofluorobenzene	97	-	
		Dibromofluoromethane	112	-	
		Toluene-d8	96	-	
4	\$BNAW	GC/MS BNA Surrogates			3
		2,4,6-Tribromophenol	47	-	
		2-Fluorobiphenyl	49	-	
		2-Fluorophenol	40	-	
		Nitrobenzene-d5	44	-	
		Phenol-d5	49	-	
		p-Terphenyl-d14	69	-	

REPORT OF LABORATORY ANALYSIS

February 15, 1996
Report No.: 00049274
Section C Page 7

SURROGATE STANDARD RECOVERY

LN	TEST CODE	SURROGATE COMPOUND	PERCENT RECOVERY	ACCEPTANCE LIMITS	REF LN
SAMPLE ID: TRIP BLANK-1			SAMPLE NO: H421633		
2	\$VOA2W	GC/MS Volatiles Surrogates (8260)			1
		1,2-Dichloroethane	104	-	
		4-Bromofluorobenzene	96	-	
		Toluene-d8	98	-	
SAMPLE ID: TRIP BLANK-2			SAMPLE NO: H421634		
2	\$VOA2W	GC/MS Volatiles Surrogates (8260)			1
		1,2-Dichloroethane-d4	106	-	
		4-Bromofluorobenzene	96	-	
		Toluene-d8	98	-	
SAMPLE ID: TRIP BLANK-3			SAMPLE NO: H421635		
2	\$VOA2W	GC/MS Volatiles Surrogates (8260)			1
		1,2-Dichloroethane-d4	106	-	
		4-Bromofluorobenzene	95	-	
		Toluene-d8	93	-	
SAMPLE ID: TRIP BLANK-4			SAMPLE NO: H421636		
2	\$VOA2W	GC/MS Volatiles Surrogates (8260)			1
		1,2-Dichloroethane-d4	106	-	
		4-Bromofluorobenzene	96	-	
		Toluene-d8	97	-	

REPORT OF LABORATORY ANALYSIS

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 Section D Page 1

LABORATORY CONTROL SAMPLE RECOVERY

TEST CODE	DETERMINATION	LCS % RECOVERY	ACCEPTANCE LIMITS
BATCH NO: 59570			SAMPLE NO: H362971
I590	Solids, Dissolved at 180C	98.7	-
BATCH NO: 59571			SAMPLE NO: H362973
I590	Solids, Dissolved at 180C	98.9	-
BATCH NO: 59632			SAMPLE NO: H363062
OSVTCW	TCL - Semi-volatile Extractables in Water		
	1,2,4-Trichlorobenzene	90	-
	1,4-Dichlorobenzene	83	-
	2,4-Dinitrotoluene	92	-
	2-Chlorophenol	78	-
	4-Chloro-3-methylphenol	81	-
	4-Nitrophenol	88	-
	Acenaphthene	87	-
	N-Nitroso-di-n-propylamine	79	-
	Pentachlorophenol	100	-
	Phenol	67	-
	Pyrene	80	-
BATCH NO: 59851			SAMPLE NO: H363401
OVTCW2	8260A TCL Volatiles in Water		
	1,1-Dichloroethene	97	-
	Benzene	104	-
	Chlorobenzene	111	-
	Toluene	108	-
	Trichloroethene	101	-
BATCH NO: 59918			SAMPLE NO: H363506
OVTCW2	8260A TCL Volatiles in Water		
	1,1-Dichloroethene	94	-
	Benzene	89	-
	Chlorobenzene	97	-
	Toluene	92	-
	Trichloroethene	88	-

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Houston, TX 77058
Tel: 713-488-1810
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February 15, 1996
Report No.: 00049274
Section D Page 2

LABORATORY CONTROL SAMPLE RECOVERY

TEST CODE	DETERMINATION	LCS % RECOVERY	ACCEPTANCE LIMITS
BATCH NO: 60083			SAMPLE NO: H363780
OVTW2	8260A TCL Volatiles in Water		
	1,1-Dichloroethene	94	-
	Benzene	85	-
	Chlorobenzene	94	-
	Toluene	110	-
	Trichloroethene	83	-

REPORT OF LABORATORY ANALYSIS

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February 15, 1996
 Report No.: 00049274
 Section E Page 1

METHOD BLANK DATA

TEST CODE	DETERMINATION	RESULT	UNIT
BATCH NO: 59570			SAMPLE NO: H362972
I590	Solids, Dissolved at 180C	< 5	mg/L
BATCH NO: 59571			SAMPLE NO: H362974
I590	Solids, Dissolved at 180C	< 5	mg/L
BATCH NO: 59632			SAMPLE NO: H363063
OSVTCW	TCL - Semi-volatile Extractables in Water		
	1,2,4-Trichlorobenzene	< 10	ug/L
	1,2-Dichlorobenzene	< 10	ug/L
	1,2-Diphenylhydrazine	< 10	ug/L
	1,3-Dichlorobenzene	< 10	ug/L
	1,4-Dichlorobenzene	< 10	ug/L
	2,4,5-Trichlorophenol	< 10	ug/L
	2,4,6-Trichlorophenol	< 10	ug/L
	2,4-Dichlorophenol	< 10	ug/L
	2,4-Dimethylphenol	< 10	ug/L
	2,4-Dinitrophenol	< 50	ug/L
	2,4-Dinitrotoluene	< 10	ug/L
	2,6-Dinitrotoluene	< 10	ug/L
	2-Chloronaphthalene	< 10	ug/L
	2-Chlorophenol	< 10	ug/L
	2-Methylnaphthalene	< 10	ug/L
	2-Methylphenol	< 10	ug/L
	2-Nitroaniline	< 50	ug/L
	2-Nitrophenol	< 10	ug/L
	3,3'-Dichlorobenzidine	< 20	ug/L
	3-Methylphenol	< 10	ug/L
	3-Nitroaniline	< 50	ug/L
	4,6-Dinitro-o-cresol	< 50	ug/L
	4-Bromophenylphenylether	< 10	ug/L
	4-Chloro-3-methylphenol	< 10	ug/L
	4-Chloroaniline	< 10	ug/L
	4-Chlorophenylphenylether	< 10	ug/L
	4-Methylphenol	< 10	ug/L
	4-Nitroaniline	< 50	ug/L
	4-Nitrophenol	< 50	ug/L
	Acenaphthene	< 10	ug/L
	Acenaphthylene	< 10	ug/L
	Aniline	< 10	ug/L
	Anthracene	< 10	ug/L

REPORT OF LABORATORY ANALYSIS

February 15, 1996
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 Section E Page 2

METHOD BLANK DATA

TEST CODE	DETERMINATION	RESULT	UNIT
	Benzidine	< 50	ug/L
	Benzo(a)anthracene	< 10	ug/L
	Benzo(a)pyrene	< 10	ug/L
	Benzo(b)fluoranthene	< 10	ug/L
	Benzo(g,h,i)perylene	< 10	ug/L
	Benzo(k)fluoranthene	< 10	ug/L
	Benzoic acid	< 50	ug/L
	Benzyl alcohol	< 10	ug/L
	Butylbenzylphthalate	< 10	ug/L
	Chrysene	< 10	ug/L
	Di-n-butylphthalate	< 10	ug/L
	Di-n-octylphthalate	< 10	ug/L
	Dibenzo(a,h)anthracene	< 10	ug/L
	Dibenzofuran	< 10	ug/L
	Diethylphthalate	< 10	ug/L
	Dimethylphthalate	< 10	ug/L
	Fluoranthene	< 10	ug/L
	Fluorene	< 10	ug/L
	Hexachlorobenzene	< 10	ug/L
	Hexachlorobutadiene	< 10	ug/L
	Hexachlorocyclopentadiene	< 10	ug/L
	Hexachloroethane	< 10	ug/L
	Indeno(1,2,3-cd)pyrene	< 10	ug/L
	Isophorone	< 10	ug/L
	N-Nitroso-di-n-propylamine	< 10	ug/L
	N-Nitrosodimethylamine	< 10	ug/L
	N-Nitrosodiphenylamine	< 10	ug/L
	Naphthalene	< 10	ug/L
	Nitrobenzene	< 10	ug/L
	Pentachlorophenol	< 50	ug/L
	Phenanthrene	< 10	ug/L
	Phenol	< 10	ug/L
	Pyrene	< 10	ug/L
	bis(2-Chloroethoxy)methane	< 10	ug/L
	bis(2-Chloroethyl)ether	< 10	ug/L
	bis(2-Chloroisopropyl)ether	< 10	ug/L
	bis(2-Ethylhexyl)phthalate	< 10	ug/L
BATCH NO: 59851		SAMPLE NO: H363402	
OVTWC2	8260A TCL Volatiles in Water		
	1,2-Dichloroethane	< 5	ug/L
	Benzene	< 5	ug/L
	Chlorobenzene	< 5	ug/L

REPORT OF LABORATORY ANALYSIS

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February 15, 1996
Report No.: 00049274
Section E Page 3

METHOD BLANK DATA

TEST CODE	DETERMINATION	RESULT	UNIT
	Ethylbenzene	< 5	ug/L
	Methylene chloride	< 5	ug/L
	Toluene	< 5	ug/L
	Xylenes (total)	< 5	ug/L
BATCH NO: 59918			SAMPLE NO: H363507
OVTCW2	8260A TCL Volatiles in Water		
	1,2-Dichloroethane	< 5	ug/L
	Benzene	< 5	ug/L
	Chlorobenzene	< 5	ug/L
	Ethylbenzene	< 5	ug/L
	Methylene chloride	< 5	ug/L
	Toluene	< 5	ug/L
	Xylenes (total)	< 5	ug/L
BATCH NO: 60083			SAMPLE NO: H363781
OVTCW2	8260A TCL Volatiles in Water		
	1,2-Dichloroethane	< 5	ug/L
	Benzene	< 5	ug/L
	Chlorobenzene	< 5	ug/L
	Ethylbenzene	< 5	ug/L
	Methylene chloride	< 5	ug/L
	Toluene	< 5	ug/L
	Xylenes (Total)	< 5	ug/L

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Pace Analytical Services, Inc.
900 Gemini Avenue
Houston, TX 77058
Tel: 713-488-1810
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February 15, 1996
Report No.: 00049274
Section F Page 1

DUPLICATE AND MATRIX SPIKE DATA

TEST CODE	DETERMINATION	ORIGINAL RESULT	DUPLICATE RESULT	UNITS	RANGE / RPD	MS RESULT	MS % RCVRY
BATCH NO: 59570							SAMPLE NO: H420280
I590	Solids, Dissolved at 180C	4,396	4,284	mg/L	2.6		
BATCH NO: 59570							SAMPLE NO: H420571
I590	Solids, Dissolved at 180C	1,738	1,788	mg/L	2.8		
BATCH NO: 59571							SAMPLE NO: H421244
I590	Solids, Dissolved at 180C	815	767	mg/L	6.1		
BATCH NO: 59571							SAMPLE NO: H421255
I590	Solids, Dissolved at 180C	801	889	mg/L	10.4		

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February 15, 1996
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Section H Page 1

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE DATA

TEST CODE	DETERMINATION	MS RESULT	MSD RESULT	UNITS	RPD	MS PCT RCVRY	MSD PCT RCVRY
BATCH NO: 59632		SAMPLE NO: H363063					
OSVTCW	TCL - Semi-volatile Extractables in Water						
	1,2,4-Trichlorobenzene	69.6	69.6	ug/L	0.00	70	70
	1,4-Dichlorobenzene	72.5	69.8	ug/L	1.90	72	70
	2,4-Dinitrotoluene	71.1	69.5	ug/L	1.56	71	70
	2-Chlorophenol	140	133	ug/L	5.13	70	66
	4-Nitrophenol		126	ug/L	1.57		63
	Acenaphthene	71.3	70.5	ug/L	1.13	71	70
	N-Nitroso-di-n-propylamine	66.0	63.1	ug/L	4.49	66	63
	Pentachlorophenol	155	155	ug/L	0.00	78	78
	Phenol	130	126	ug/L	3.12	65	63
	Pyrene	75.0	72.7	ug/L	3.11	75	73
	p-Chloro-m-cresol	136	137	ug/L	0.733	68	68
BATCH NO: 59851		SAMPLE NO: H421244					
OVTCW2	8260A TCL Volatiles in Water						
	1,1-Dichloroethene	34.5	33.2	ug/L	3.87	86	83
	Benzene	45.6	43.7	ug/L	4.26	114	109
	Chlorobenzene	42.1	41.7	ug/L	0.93	105	104
	Toluene	45.8	41.5	ug/L	9.85	114	104
	Trichloroethene	40.4	44.2	ug/L	8.90	101	110

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY RECORD
Analytical Request

Report To: E. HANFORD & B. SOLOSBY Pace Client No.
 Bill To: SOUTHERN PACIFIC ENERGY Pace Project Manager E. Sommers
 P.O. # / Billing Reference N/A Pace Project No.

Client: TERRANEX
 Address: 6200 ROTHWAY #190
HOUSTON, TX 77040
 Phone: (713) 460-4230

Project Name / No. HOUSTON WOOD PRESERVATION SERVICES (CWP) Requested Due Date: STANDARD

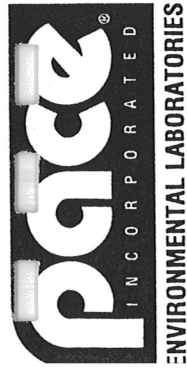
ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PAGE NO.	PRESERVATIVES				ANALYSES REQUEST	REMARKS
					UNPRESERVED	H ₂ SO ₄	HNO ₃	VOA		
1	HWPW-MW11A-W1H96-P	1355	W	H424240	5	3	2	X	X	TB-2
2	HWPW-MW10A-W1H96-P	1426	W	241						TB-2
3	HWPW-MW2-W1H96-P	1448	W	242						TB-2
4	HWPW-MW3-W1H96-P	1450	W	243						TB-2
5	HWPW-MW1A-W1H96-P	1500	W	244						TB-1
6	HWPW-MW11B-W1H96-P	1515	W	245						TB-2
7	HWPW-MW10B-W1H96-P	1615	W	246						TB 1
8	HWPW-MW4-W1H96-P	1515	W	247						TB 1

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
1	<i>Benny Miller / TERRANEX</i>	<i>Willy Roubly / TERRANEX</i>	11/24/96	15:30
2	<i>Willy Roubly / TERRANEX</i>	<i>Edt [Signature]</i>	1/23/96	09:48
3	<i>Edt [Signature]</i>	<i>Quinn Lyman</i>	1-23-96	1415

NO. OF CONTAINERS: _____
 PRESERVATIVES: _____
 ANALYSES REQUEST: _____
 Project Name / No. HOUSTON WOOD PRESERVATION SERVICES (CWP) Requested Due Date: STANDARD

Additional Comments
4 COVERS

SEE REVERSE SIDE FOR INSTRUCTIONS



CHAIN-OF-CUSTODY RECORD.
Analytical Request

Report To: E. HANFORD & B. GOLDBY Pace Client No. _____
 Bill To: SOUTHERN PACIFIC LINES Pace Project Manager E. Sommers
 P.O. # / Billing Reference N/A Pace Project No. _____
 Project Name / No. HOUSTON WOOD PRESERVING WORKS *Requested Due Date: _____

Client: TERRANEXT
 Address: 6200 ROTHWAY, #190
HOUSTON, TX. 77040
 Phone: (713) 460-4230

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.	PRESERVATIVES				ANALYSES REQUEST	REMARKS
					UNPRESERVED	H ₂ SO ₄	HNO ₃	VOA		

Sampled By (PRINT): KERRY MILLER
 Sampler Signature: [Signature] Date Sampled: 1-24-96

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.	NO. OF CONTAINERS	UNPRESERVED	H ₂ SO ₄	HNO ₃	VOA	ANALYSES REQUEST	REMARKS
1	NWFW-mw7-w/1496-P	0930	W	1421248	5	3			2	X X X	TB-4
2	NWFW-mw7B-w/1496-P	0940	W	249	4	2			2	X X X	TB-3
3	NWFW-P10-w/1496-P	1055	W	250	5	3			2	X X X	TB-3
4	NWFW-mw5-w/1496-P	0950	W	251							TB-3
5	NWFW-mw8-w/1496-P	1040	W	252							TB-3
6	NWFW-mw9-w/1496-P	1135	W	253							TB-1
7	NWFW-P12-w/1496-P	1140	W	254							TB-2
8	NWFW-P11-w/1496-P	1210	W	255							TB-4

COOLER NOS.	BAILERS	SHIPMENT METHOD	RETURNED/DATE	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
				[Signature]	William R Goldby	1/24/96	15:30
				[Signature]	William R Goldby	1/25/96	09:48
				[Signature]	William R Goldby	1/25/96	14:15

Additional Comments

4 COOLERS

SEE REVERSE SIDE FOR INSTRUCTIONS



Client: TERANEXT

Address: 6200 ROTHWAY, #190
HOUSTON, TX. 77040
 Phone: (713) 460-4230

Report To: E. HANFORD + B. GARDNER Pace Client No.
 Bill To: SOUTHERN FACETIC LINES Pace Project Manager E. Sommers
 P.O. # / Billing Reference: N/A Pace Project No.
 Project Name / No.: HOUSTON WOOD PRESERVING WORKS *Requested Due Date:

Sampled By (PRINT): KERRY MILLER
 Sampler Signature: Kerry Miller Date Sampled: 1-24-96

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PAGE NO.	NO. OF CONTAINERS	PRESERVATIVES				ANALYSES REQUEST	REMARKS
						H ₂ SO ₄	HNO ₃	VOA	UNPRESERVED		
1	<u>HWAPW-EB-W/A96-P</u>	<u>1230</u>	<u>W</u>	<u>#1-21256</u>	<u>4</u>				<u>2</u>	<u>XX</u>	<u>TB-4</u>
2											
3											
4											
5											
6											
7											
8											

COOLER NOS.	BAILLERS	SHIPMENT OUT/DATE	METHOD RETURNED/DATE	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
				1	<u>Kerry Miller / TERANEXT</u>	<u>William R Goldsby</u>	<u>1/25/96</u>	<u>15:30</u>
				2	<u>William R Goldsby / Teranext</u>	<u>Edt [Signature]</u>	<u>1/25/96</u>	<u>09:45</u>
				3	<u>Edt [Signature]</u>	<u>Kerry Miller / Teranext</u>	<u>1-25-96</u>	<u>1415</u>

Additional Comments
4 COOLERS

SEE REVERSE SIDE FOR INSTRUCTIONS

APPENDIX B

**FIELD TRACKING REPORT
AND GROUND WATER SAMPLING FORMS**

PROJECT NUMBER: 44102069

PROJECT NAME: Closed Surface Impoundment, 4910 Liberty Road in Houston, Texas

FIELD TRACKING REPORT: First Semi-annual Event 1996

FIELD SAMPLE CODE	BRIEF DESCRIPTION	DATE	TIME(S)	SAMPLER
MW-1a	Water	1-23-96	1500	Miller
MW-2	Water	1-23-96	1440	Miller
MW-3	Water	1-23-96	1450	Miller
MW-4	Water	1-23-96	1515	Miller
MW-5	Water	1-24-96	0950	Miller
MW-7	Water	1-24-96	0930	Miller
MW-8	Water	1-24-96	1040	Miller
MW-9	Water	1-24-96	1135	Miller
MW-10a	Water	1-23-96	1426	Miller
MW-10b	Water	1-23-96	1615	Miller
MW-11a	Water	1-23-96	1355	Miller
MW-11b	Water	1-23-96	1545	Miller
P-10	Water	1-24-96	1055	Miller
P-11	Water	1-24-96	1210	Miller
P-12	Water	1-24-96	1140	Miller

**TERRANEXT
GROUND WATER SAMPLING FORM
WELL NUMBER: MW-1a**

Job Name: First Semi-annual Sampling

Job Number: 44102069

Client: Southern Pacific Transportation Company

Date Sampled: 1-23-96

Site Location: 4910 Liberty Rd., Houston, Texas

Time Sampled: 1500

Weather: Cloudy, Windy, 67°F

Sampled By: Miller (T)

EVACUATION DATA

Elevation of Measuring Point (MP): 47.95'

Depth to Water (From MP): 5.67'

Depth of Well (From MP): 19.45'

Volume of Water in Well: 9.0 gallons

Volume of Water Evacuated: 27 gallons

FIELD PARAMETERS FOLLOWING PURGING ACTIVITIES

Temp (°C): 23.0

pH: 6.63

Specific Conductivity (μ mhos/cm): 1555

Purge Method: Disposable Bailer

Sampling Method: Disposable Bailer

Remarks: Lab #H421244

Terranext

**FIELD TESTING:
WELL ID: MW-1a
January 23, 1996**

TIME	WATER PURGED (gallons)	TEMP °C	pH	SPEC COND. (μ mhos/cm)
1-23-96 1058	-	21.0	6.83	1450
1-23-96 1110	9	21.0	6.76	1449
1-23-96 1116	18	21.0	6.72	1455
1-23-96 1300	27	22.0	6.76	1460
1-23-96 1500	27	23.0	6.63	1555

**TERRANEXT
GROUND WATER SAMPLING FORM
WELL NUMBER: MW-2**

Job Name: First Semi-annual Sampling

Job Number: 44102069

Client: Southern Pacific Transportation Company

Date Sampled: 1-23-96

Site Location: 4910 Liberty Rd., Houston, Texas

Time Sampled: 1440

Weather: Cloudy, Windy, 67°F

Sampled By: Miller (T)

EVACUATION DATA

Elevation of Measuring Point (MP): 48.03'

Depth to Water (From MP): 5.69'

Depth of Well (From MP): 18.39'

Volume of Water in Well: 2.10 gallons

Volume of Water Evacuated: 7.5 gallons

FIELD PARAMETERS FOLLOWING PURGING ACTIVITIES

Temp (°C): 22.9

pH: 6.69

Specific Conductivity (μ mhos/cm): 800

Purge Method: Disposable Bailer

Sampling Method: Disposable Bailer

Remarks: Lab #H421242

Terranext

**FIELD TESTING:
WELL ID: MW-2
January 23, 1996**

TIME	WATER PURGED (gallons)	TEMP °C	pH	SPEC COND. (μmhos/cm)
1-23-96 1008	-	19.0	5.88	841
1-23-96 1014	2.5	20.0	5.51	842
1-23-96 1019	5.0	20.0	5.63	813
1-23-96 1024	7.5	21.0	5.58	823
1-23-96 1440	7.5	22.9	6.69	800

**TERRANEXT
GROUND WATER SAMPLING FORM
WELL NUMBER: MW-3**

Job Name: First Semi-annual Sampling

Job Number: 44102069

Client: Southern Pacific Transportation Company

Date Sampled: 1-23-96

Site Location: 4910 Liberty Rd., Houston, Texas

Time Sampled: 1450

Weather: Cloudy, Windy, 67°F

Sampled By: Miller (T)

EVACUATION DATA

Elevation of Measuring Point (MP): 48.55'

Depth to Water (From MP): 6.27'

Depth of Well (From MP): 19.95'

Volume of Water in Well: 2.2 gallons

Volume of Water Evacuated: 7.5 gallons

FIELD PARAMETERS FOLLOWING PURGING ACTIVITIES

Temp (°C): 22.5

pH: 6.72

Specific Conductivity (μ mhos/cm): 1250

Purge Method: Disposable Bailer

Sampling Method: Disposable Bailer

Remarks: Lab #H421243

Terranext

**FIELD TESTING:
WELL ID: MW-3
January 23, 1996**

TIME	WATER PURGED (gallons)	TEMP °C	pH	SPEC COND. (μ mhos/cm)
1-23-96 1000	-	19.0	5.52	1225
1-23-96 1009	2.5	21.0	5.68	1288
1-23-96 1016	5.0	21.0	5.55	1249
1-23-96 1021	7.5	21.0	5.66	1239
1-23-96 1450	7.5	22.5	6.72	1250

**TERRANEXT
GROUND WATER SAMPLING FORM
WELL NUMBER: MW-4**

Job Name: First Semi-annual Sampling	Job Number: 44102069
Client: Southern Pacific Transportation Company	Date Sampled: 1-23-96
Site Location: 4910 Liberty Rd., Houston, Texas	Time Sampled: 1515
Weather: Cloudy, Windy, 67°F	Sampled By: Miller (T)

EVACUATION DATA

Elevation of Measuring Point (MP):	49.85'
Depth to Water (From MP):	7.85'
Depth of Well (From MP):	22.59'
Volume of Water in Well:	2.4 gallons
Volume of Water Evacuated:	7.0 gallons

FIELD PARAMETERS FOLLOWING PURGING ACTIVITIES

Temp (°C):	22.4
pH:	6.70
Specific Conductivity (μmhos/cm):	1050
Purge Method:	Disposable Bailer
Sampling Method:	Disposable Bailer
Remarks:	Lab #H421247

Terranext

**FIELD TESTING:
WELL ID: MW-4
January 23, 1996**

TIME	WATER PURGED (gallons)	TEMP °C	pH	SPEC COND. (μmhos/cm)
1-23-96 1051	-	20.0	5.86	883
1-23-96 1100	2.5	23.0	5.96	890
1-23-96 1106	5.0	22.0	5.83	882
1-23-96 1254	7.0	22.6	6.88	991
1-23-96 1515	7.0	22.4	6.70	1050

**TERRANEXT
GROUND WATER SAMPLING FORM
WELL NUMBER: MW-5**

Job Name: First Semi-annual Sampling

Job Number: 44102069

Client: Southern Pacific Transportation Company

Date Sampled: 1-24-96

Site Location: 4910 Liberty Rd., Houston, Texas

Time Sampled: 0950

Weather: Clear, Calm, 58°F

Sampled By: Miller (T)

EVACUATION DATA

Elevation of Measuring Point (MP): 49.35'

Depth to Water (From MP): 7.42'

Depth of Well (From MP): 27.20'

Volume of Water in Well: 3.22 gallons

Volume of Water Evacuated: 10.5 gallons

FIELD PARAMETERS FOLLOWING PURGING ACTIVITIES

Temp (°C): 18.4

pH: 6.78

Specific Conductivity (μ mhos/cm): 730

Purge Method: Disposable Bailer

Sampling Method: Disposable Bailer

Remarks: Lab #H421251

Terranext

**FIELD TESTING:
WELL ID: MW-5
January 24, 1996**

TIME	WATER PURGED (gallons)	TEMP °C	pH	SPEC COND. (µmhos/cm)
1-24-96 0849	-	17.8	6.97	667
1-24-96 0856	3.5	20.1	6.80	723
1-24-96 0901	7	20.5	6.68	714
1-24-96 0906	10.5	20.1	6.68	755
1-24-96 0950	10.5	18.4	6.78	730

**TERRANEXT
GROUND WATER SAMPLING FORM
WELL NUMBER: MW-7**

Job Name: First Semi-annual Sampling

Job Number: 44102069

Client: Southern Pacific Transportation Company

Date Sampled: 1-24-96

Site Location: 4910 Liberty Rd., Houston, Texas

Time Sampled: 0930

Weather: Clear, Calm, 58°F

Sampled By: Miller (T)

EVACUATION DATA

Elevation of Measuring Point (MP): 48.86'

Depth to Water (From MP): 6.99'

Depth of Well (From MP): 24.56'

Volume of Water in Well: 11.47 gallons

Volume of Water Evacuated: 47 gallons

FIELD PARAMETERS FOLLOWING PURGING ACTIVITIES

Temp (°C): 20.6

pH: 6.57

Specific Conductivity (μmhos/cm): 985

Purge Method: Disposable Bailer

Sampling Method: Disposable Bailer

Remarks: Lab #H421248

**FIELD TESTING:
WELL ID: MW-7
January 24, 1996**

TIME	WATER PURGED (gallons)	TEMP °C	pH	SPEC COND. (μmhos/cm)
1-24-96 0821	-	17.1	6.71	921
1-24-96 0828	11.5	19.5	6.36	1041
1-24-96 0836	23	20.1	6.24	995
1-24-96 0843	35	20.7	6.28	902
1-24-96 0930	47	20.6	6.57	985

**TERRANEXT
GROUND WATER SAMPLING FORM
WELL NUMBER: MW-8**

Job Name: First Semi-annual Sampling

Job Number: 44102069

Client: Southern Pacific Transportation Company

Date Sampled: 1-24-96

Site Location: 4910 Liberty Rd., Houston, Texas

Time Sampled: 1040

Weather: Clear, Calm, 58°F

Sampled By: Miller (T)

EVACUATION DATA

Elevation of Measuring Point (MP): 49.37'

Depth to Water (From MP): 7.20'

Depth of Well (From MP): 24.93'

Volume of Water in Well: 11.60 gallons

Volume of Water Evacuated: 36 gallons

FIELD PARAMETERS FOLLOWING PURGING ACTIVITIES

Temp (°C): 19.4

pH: 6.68

Specific Conductivity (μ mhos/cm): 1142

Purge Method: Disposable Bailer

Sampling Method: Disposable Bailer

Remarks: Lab #H421252

**FIELD TESTING:
WELL ID: MW-8
January 24, 1996**

TIME	WATER PURGED (gallons)	TEMP °C	pH	SPEC COND. (µmhos/cm)
1-24-96 0900	-	19.3	7.31	938
1-24-96 0925	12	20.5	6.51	1044
1-24-96 0935	24	21.1	6.53	1054
1-24-96 0946	36	21.9	6.77	1122
1-24-96 1040	36	19.4	6.68	1142

**TERRANEXT
GROUND WATER SAMPLING FORM
WELL NUMBER: MW-9**

Job Name: First Semi-annual Sampling

Job Number: 44102069

Client: Southern Pacific Transportation Company

Date Sampled: 1-24-96

Site Location: 4910 Liberty Rd., Houston, Texas

Time Sampled: 1135

Weather: Clear, Calm, 58°F

Sampled By: Miller (T)

EVACUATION DATA

Elevation of Measuring Point (MP): ???49.29'

Depth to Water (From MP): 7.09'

Depth of Well (From MP): 25.22'

Volume of Water in Well: 11.8 gallons

Volume of Water Evacuated: 36 gallons

FIELD PARAMETERS FOLLOWING PURGING ACTIVITIES

Temp (°C): 19.5

pH: 6.57

Specific Conductivity (μ mhos/cm): 797

Purge Method: Disposable Bailer

Sampling Method: Disposable Bailer

Remarks: Lab #H421253

**FIELD TESTING:
WELL ID: MW-9
January 24, 1996**

TIME	WATER PURGED (gallons)	TEMP °C	pH	SPEC COND. (μmhos/cm)
1-24-96 0955	-	16.7	7.15	806
1-24-96 1003	12	21.2	6.73	864
1-24-96 1020	24	19.7	6.47	827
1-24-96 1029	36	19.4	6.36	833
1-24-96 1135	36	19.5	6.57	797

**TERRANEXT
GROUND WATER SAMPLING FORM
WELL NUMBER: MW-10a**

Job Name: First Semi-annual Sampling

Job Number: 44102069

Client: Southern Pacific Transportation Company

Date Sampled: 1-23-96

Site Location: 4910 Liberty Rd., Houston, Texas

Time Sampled: 1426

Weather: Clear, Calm, 67°F

Sampled By: Miller (T)

EVACUATION DATA

Elevation of Measuring Point (MP): 49.90

Depth to Water (From MP): 7.74'

Depth of Well (From MP): 25.38'

Volume of Water in Well: 11.5 gallons

Volume of Water Evacuated: 36 gallons

FIELD PARAMETERS FOLLOWING PURGING ACTIVITIES

Temp (°C): 21.8

pH: 6.82

Specific Conductivity (μ mhos/cm): 1738

Purge Method: Disposable Bailer

Sampling Method: Disposable Bailer

Remarks: Lab #H421241

**FIELD TESTING:
WELL ID: MW-10a
January 23, 1996**

TIME	WATER PURGED	TEMP °C	pH	SPEC COND. (μmhos/cm)
1-23-96 0947	-	20.0	6.64	1617
1-23-96 0956	12	22.0	6.08	1613
1-23-96 1006	24	22.0	5.64	1566
1-23-96 1043	36	21.0	5.98	1578
1-23-96 1426	36	21.8	6.82	1738

**TERRANEXT
GROUND WATER SAMPLING FORM
WELL NUMBER: MW-10b**

Job Name: First Semi-annual Sampling

Job Number: 44102069

Client: Southern Pacific Transportation Company

Date Sampled: 1-23-96

Site Location: 4910 Liberty Rd., Houston, Texas

Time Sampled: 1615

Weather: Clear, Calm, 67°F

Sampled By: Miller (T)

EVACUATION DATA

Elevation of Measuring Point (MP): 49.97'

Depth to Water (From MP): 7.84'

Depth of Well (From MP): 46.35'

Volume of Water in Well: 25.2 gallons

Volume of Water Evacuated: 77 gallons

FIELD PARAMETERS FOLLOWING PURGING ACTIVITIES

Temp (°C): 23.3

pH: 6.67

Specific Conductivity (μmhos/cm): 1436

Purge Method: Disposable Bailer

Sampling Method: Disposable Bailer

Remarks: Lab #H421426

**FIELD TESTING:
WELL ID: MW-10b
January 23, 1996**

TIME	WATER PURGED (gallons)	TEMP °C	pH	SPEC COND. (µmhos/cm)
1-23-96 0925	-	20.0	6.58	1269
1-23-96 0943	25.5	21.0	6.45	1397
1-23-96 1258	51	22.3	6.82	1498
1-23-96 1343	77	23.1	6.80	1675
1-23-96 1615	77	23.3	6.67	1436

**TERRANEXT
GROUND WATER SAMPLING FORM
WELL NUMBER: MW-11a**

Job Name: First Semi-annual Sampling

Job Number: 44102069

Client: Southern Pacific Transportation Company

Date Sampled: 1-23-96

Site Location: 4910 Liberty Rd., Houston, Texas

Time Sampled: 1355

Weather: Clear, Calm, 67°F

Sampled By: Miller (T)

EVACUATION DATA

Elevation of Measuring Point (MP): 50.04'

Depth to Water (From MP): 8.01'

Depth of Well (From MP): 23.79'

Volume of Water in Well: 10.3 gallons

Volume of Water Evacuated: 31.5 gallons

FIELD PARAMETERS FOLLOWING PURGING ACTIVITIES

Temp (°C): 22.4

pH: 6.76

Specific Conductivity (μ mhos/cm): 1340

Purge Method: Disposable Bailer

Sampling Method: Disposable Bailer

Remarks: Lab #H421240

Terranext

**FIELD TESTING:
WELL ID: MW-11a
January 23, 1996**

TIME	WATER PURGED (gallons)	TEMP °C	pH	SPEC COND. (μmhos/cm)
1-23-96 0908	-	20.0	6.29	1320
1-23-96 0912	10.5	21.0	6.40	1360
1-23-96 0919	21	21.0	6.55	1300
1-23-96 0950	31.5	22.0	5.86	1272
1-23-96 1355	31.5	22.4	6.76	1340

**TERRANEXT
GROUND WATER SAMPLING FORM
WELL NUMBER: MW-11b**

Job Name: First Semi-annual Sampling

Job Number: 44102069

Client: Southern Pacific Transportation Company

Date Sampled: 1-23-96

Site Location: 4910 Liberty Rd., Houston, Texas

Time Sampled: 1545

Weather: Clear, Calm, 67°F

Sampled By: Miller (T)

EVACUATION DATA

Elevation of Measuring Point (MP): 50.19'

Depth to Water (From MP): 8.20'

Depth of Well (From MP): 46.52'

Volume of Water in Well: 25.0 gallons

Volume of Water Evacuated: 75 gallons

FIELD PARAMETERS FOLLOWING PURGING ACTIVITIES

Temp (°C): 23.0

pH: 6.72

Specific Conductivity (μ mhos/cm): 1393

Purge Method: Disposable Bailer

Sampling Method: Disposable Bailer

Remarks: Lab #H421245

**FIELD TESTING:
WELL ID: MW-11b
January 23, 1996**

TIME	WATER PURGED (gallons)	TEMP °C	pH	SPEC COND. (μ mhos/cm)
1-23-96 0905	-	21.0	6.49	1175
1-23-96 0932	25	21.0	6.09	1258
1-23-96 1031	50	22.0	5.59	1179
1-23-96 1302	75	23.6	6.80	1236
1-23-96 1545	75	23.0	6.72	1393

**TERRANEXT
GROUND WATER SAMPLING FORM
PIEZOMETER NUMBER: P-10**

Job Name: First Semi-annual Sampling

Job Number: 44102069

Client: Southern Pacific Transportation Company

Date Sampled: 1-24-96

Site Location: 4910 Liberty Rd., Houston, Texas

Time Sampled: 1055

Weather: Clear, Calm, 58°F

Sampled By: Miller (T)

EVACUATION DATA

Elevation of Measuring Point (MP): 47.72'

Depth to Water (From MP): 5.84'

Depth of Piezometer (From MP): 42.70'

Volume of Water in Piezometer: 6.0 gallons

Volume of Water Evacuated: 18 gallons

FIELD PARAMETERS FOLLOWING PURGING ACTIVITIES

Temp (°C): 18.4

pH: 6.63

Specific Conductivity (μ mhos/cm): 1021

Purge Method: Disposable Bailer

Sampling Method: Disposable Bailer

Remarks: Lab #H421250

**FIELD TESTING:
PIEZOMETER ID: P-10
January 24, 1996**

TIME	WATER PURGED (gallons)	TEMP °C	pH	SPEC COND. (µmhos/cm)
1-24-96 0848	-	17.4	6.91	1066
1-24-96 0903	6	21.0	6.48	1194
1-24-96 0927	12	20.6	6.51	1177
1-24-96 0945	18	21.8	6.67	1224
1-24-96 1055	18	18.4	6.63	1021

**TERRANEXT
GROUND WATER SAMPLING FORM
PIEZOMETER NUMBER: P-11**

Job Name: First Semi-annual Sampling

Job Number: 44102069

Client: Southern Pacific Transportation Company

Date Sampled: 1-24-96

Site Location: 4910 Liberty Rd., Houston, Texas

Time Sampled: 1210

Weather: Clear, Calm, 58°F

Sampled By: Miller (T)

EVACUATION DATA

Elevation of Measuring Point (MP): 49.02'

Depth to Water (From MP): 6.81'

Depth of Piezometer (From MP): 42.61'

Volume of Water in Piezometer: 5.8 gallons

Volume of Water Evacuated: 18 gallons

FIELD PARAMETERS FOLLOWING PURGING ACTIVITIES

Temp (°C): 21.0

pH: 6.48

Specific Conductivity (μ mhos/cm): 1372

Purge Method: Disposable Bailer

Sampling Method: Disposable Bailer

Remarks: Lab #H421255

**FIELD TESTING:
PIEZOMETER ID: P-11
January 24, 1996**

TIME	WATER PURGED (gallons)	TEMP °C	pH	SPEC COND. (μmhos/cm)
1-24-96 1042	-	18.3	6.93	1251
1-24-96 1100	6	18.9	6.36	1402
1-24-96 1125	12	22.1	6.50	1386
1-24-96 1143	18	20.7	6.57	1582
1-24-96 1210	18	21.0	6.48	1372

**FIELD TESTING:
PIEZOMETER ID: P-12
January 24, 1996**

TIME	WATER PURGED (gallons)	TEMP °C	pH	SPEC COND. (μ mhos/cm)
1-24-96 0957	-	20.6	6.74	850
1-24-96 1018	6	20.3	6.46	1601
1-24-96 1030	12	20.1	6.45	1516
1-24-96 1045	18	21.3	6.43	1533
1-24-96 1140	18	21.8	6.56	1498

APPENDIX C
DISPOSAL DOCUMENTATION

RECEIVED

MAR 11 1996



Timothy J. O'Brien

Please print or type. (Form designed for use on 11x17 12-pitch typewriter.)

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

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. TX D.O. 00 8. 2. 02 66		Manifest Document No.		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address Southern Pacific Lines 913 Franklin St. RM 712 Houston, TX 77002						A. State Manifest Document Number 00792821			
4. Generator's Phone (713) 222-7610						B. State Generator's ID 31547			
5. Transporter 1 Company Name Specialized Waste Systems			6. US EPA ID Number TX D.O. 00 8. 7. 02 57			C. State Transporter's ID 40514			
7. Transporter 2 Company Name						D. Transporter's Phone (713) 455-7799			
8. US EPA ID Number						E. State Transporter's ID			
9. Designated Facility Name and Site Address EMPAK, Inc. 2759 Battleground Road Deer Park, TX 77536						10. US EPA ID Number			
						G. State Facility's ID 40567			
						H. Facility's Phone (713) 479-1990			
11A. HM	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)				12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a.	Hazardous Waste Liquid, N.O.S., Class 9 NA3082				001	TT	ESTIMATE 450	G	0914101B
b.									
c.									
d.									
J. Additional Descriptions for Materials Listed Above Kool contaminated media purge water from monitor wells.						K. Handling Codes for Wastes Listed Above system code M134			
15. Special Handling Instructions and Additional Information 24-hour Emergency Number (303) 812-7791 EMPAK Stream No. EM-2371-9003 Lab#12958 monitor well purge water from Southern Pacific Lines, 4910 Liberty Rd., Houston, TX									
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 Timothy J. O'Brien				Signature <i>Timothy J. O'Brien</i>		Month Day Year 01/26/96			
17. Transporter 1 Acknowledgement of Receipt of Materials									
Printed/Typed Name Jose Gonzalez				Signature <i>Jose Gonzalez</i>		Month Day Year 01/26/96			
18. Transporter 2 Acknowledgement of Receipt of Materials									
Printed/Typed Name				Signature		Month Day Year			
19. Discrepancy Indication Space									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.									
Printed/Typed Name JAC				Signature <i>JAC</i>		Month Day Year 1/26/96			

GENERATOR

TRANSPORTER

FACILITY



Land Disposal Restrictions
Notification and Certification Form LB-1

Generator Name: Southern Pacific Lines EPA ID No. TXD000820266
 Generator Address: 913 Franklin St. Rm712 Houston, Tx Manifest No. 00792821
 EMPAK Contract and Stream No. EM- 2371-9003 Lab. #12958

Please identify all U.S. EPA hazardous waste codes that apply to this waste shipment as defined by 40 CFR 261. For each waste code, identify the subcategory (check None, if no subcategory is listed) along with the appropriate treatability group. NOTE: EMPAK INC. is exempted from land disposal restrictions imposed by the hazardous and solid waste amendments of 1984 to the Resource Conservation and Recovery Act. EMPAK INC.'s approved No Migration Petition allows for EMPAK INC. to dispose of waste (excluding dioxins and PCBs) by deepwell injection regardless of technology based standards.

U.S. EPA Hazardous Waste Code	Subcategory		Treatability Group	
	None	Description	Wastewater ¹	Non-Wastewater
1. K001			XXX	
2.				
3.				
4.				
5.				

Please use EMPAK's Supplemental Sheet (LB-2) to list additional EPA Waste Codes.

This waste stream contains: Spent solvents (F001-F005), multi-source leachate (F039)², and/or California list wastes and must have the specific individual constituents identified by circling that specific constituent on the reverse side of this form (both copies). D001 (Low TOC³ or other ignitables that will be combusted or recovered), D002 and/or D012 - D043 not managed in CMA (Wastewater) / Class 1 SDWA systems (deepwell) are identified above and their underlying hazardous constituents are identified on form LB-3.

In accordance with requirements set forth in 40 CFR 268.7, I have marked the appropriate box below to indicate how my waste must be managed to conform with the land disposal restrictions as described in 40 CFR Part 268.

- 1. Non-Restricted Waste
The waste identified above is not restricted from land disposal by the EPA as described in 40 CFR 268.30 (Spent Solvents), 268.31(Dioxins), 268.32(California List Wastes), 268.33 (First Third), 268.34 (Second Third), 268.35 (Third Third), and in 40 CFR 148 (Underground Injection).
- 2. Restricted Waste Requiring Treatment
The waste identified above is restricted and must be treated by either the applicable concentration based standards in 40 CFR 268.41 and 268.43 or applicable technology based standards in 40 CFR 268.42 and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004 (d) prior to land disposal.
- 3. Restricted Waste Requiring no Further Treatment (Meets Treatment Standards)
I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification and that the waste complies with the treatment standard specified in 40 CFR Part 268 Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA section 3004(d). I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.
- 4. Restricted Waste Treated to Performance Standards
I certify under penalty of law that I personally have examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the performance levels specified in 40 CFR Part 268, Subpart D, and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004 (d) without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.
- 5. Restricted Waste Requiring Treatment by Specified Technology and Treated by that Technology
I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.42. I am aware that there are significant penalties for submitting false certification, including the possibility of fine and imprisonment.
- 6. Restricted Waste Subject to a Case-by-Case Extension or Variance
The waste identified above is restricted and subject to a case-by-case extension under 40 CFR 268.5, an exemption under 268.6, or a nationwide capacity variance under 40 CFR, subpart C. Supporting documentation is Attached On file with EMPAK.

I hereby certify that the information I submitted is true, accurate and complete to the best of my knowledge and information.

Timothy J. O'Brien Agent for SP Timothy J. O'Brien Authorized Signature Mgr. Env'l OPs Title

¹ Wastewater is aqueous waste containing < 1% TOC AND < 1% TSS
 F039 and Universal Treatment Standards included on separate form LB-3.
³ Low TOC < 10% total organic carbon

**SPECIALIZED
WASTE
SYSTEMS**

SPECIALIZED WASTE SYSTEMS

COMBINATION WAY BILL/BILL OF LADING

1273 SHEFFIELD • HOUSTON, TEXAS 77015 • 713/455-7799

No. 22450

SHIPPER'S COPY

DRIVER: Jose Granados DATE: 01/26/96 PO # _____
 TRUCK: 502 TRAILER # 0 TANK # _____ CAPACITY: 50 BBL
 COMPANY: Tenacext ADDRESS: _____
 SHIPPER: Tenacext

CONSIGNEE: Empak

DISPATCHED FROM	TIME	SPEEDOMETER READING	MATERIAL HAULED OR WORK PERFORMED
<u>S.W.S</u>	<u>7:00 AM</u>	<u>032383</u>	<u>Vac. waste water H₂O</u>
ARRIVED AT LOADING SITE			
CITY: <u>Houston TX</u>	<u>8:00 AM</u>	<u>032393</u>	<u>From 55 gal. drums Haul.</u>
SHIPMENT LEFT LOADING SITE			
LEASE: <u>Southern Pacific</u>	<u>10:00 AM</u>	<u>032393</u>	<u>To Empak For Disposal</u>
SHIPMENT ARRIVED AT UNLOADING SITE			
CITY: <u>Deer Park TX</u>			
SHIPMENT UNLOADED AT UNLOADING SITE			
LEASE: <u>Empak</u>			
ARRIVED AT YARD OR DIVERTED TO OTHER JOB			
HOURS →			← MILEAGE

HIGHWAY ROUTE USED FROM LOADING SITE TO UNLOADING SITE		TIME STARTED <u>7:00 AM</u>	TOTAL HOURS
		TIME STOPPED _____ M	HOURS
		NO OF LOADS <u>1/4</u>	DISPOSAL SITE <u>Empak</u>
RETENTION TIME AT LOADING SITE	EXPLANATION	MANIFEST # <u>00792821</u>	
<u>8:00 AM 10:00 AM</u>	<u>Waiting to Get Loading</u>	DISPOSAL TICKET # _____	
RETENTION TIME AT UNLOADING SITE	EXPLANATION	COMPANY SIGNATURE	DATE
_____ M _____ M			<u>1-26-96</u>
ADDITIONAL EQUIPMENT, HOSES, FITTINGS, LABOR	<u>2-2" Hoses</u>	SHIPPER SIGNATURE	DATE
WEIGHT OF SHIPMENT	WEIGHT TICKET NO.	CONSIGNEE SIGNATURE	DATE
LBS WEIGHT SUPPLIED BY SHIPPER			

FOR OFFICE USE ONLY	FOR OFFICE USE ONLY
MILEAGE RATE _____	HOURLY RATE _____
FUEL SURCHARGE _____	DISPOSAL _____
INSURANCE SURCHARGE _____	RENTAL _____
LOADING DETENTION _____	MATERIAL _____
UNLOADING DETENTION _____	EQUIPMENT _____
WASHOUT _____	LABOR _____
OTHER _____	OTHER _____
TAX _____	TAX _____
TOTAL _____	TOTAL _____

APPENDIX D

**POTENTIAL CONTAMINANTS OF CONCERN AND CONCENTRATION
LIMITS FOR GROUND WATER PROTECTION STANDARD**

**POTENTIAL CONTAMINANTS OF CONCERN AND CONCENTRATION
LIMITS FOR GROUND WATER PROTECTION STANDARD**

Hazardous Constituents	PQL ¹ (mg/L)
Acenaphthene	0.010
Acenaphthylene	0.010
Anthracene	0.010
Benzene	0.005
Benzo(A)anthracene	0.010
Benzo(A)pyrene	0.010
Bis(2-ethylhexyl)phthalate	0.010
Bis(2-chloroethoxy)methane	0.010
Chlorobenzene	0.005
2-Chloronaphthalene	0.010
Chrysene	0.010
Dibenzofuran	0.010
1,2-Dichloroethane	0.005
Dichloromethane (Methylene chloride)	0.005
2,4-Dimethylphenol	0.010
Di-n-butyl phthalate	0.010
4,6-Dinitro-o-cresol	0.050
2,4-Dinitrotoluene	0.010
2,6-Dinitrotoluene	0.010
1,2-Diphenylhydrazine	0.010
Ethylbenzene	0.005

POTENTIAL CONTAMINANTS OF CONCERN AND CONCENTRATION
LIMITS FOR GROUND WATER PROTECTION STANDARD (continued)

Hazardous Constituents	PQL ¹ (mg/L)
Fluoranthene	0.010
Fluorene	0.010
2-Methylnaphthalene	0.010
Naphthalene	0.010
Nitrobenzene	0.010
4-Nitrophenol	0.050
N-Nitrosodiphenylamine	0.010
Pentachlorophenol	0.050
Phenanthrene	0.010
Phenol	0.010
Pyrene	0.010
Toluene	0.005
Xylenes	0.005

¹Practical Quantitation Limit (PQL) as determined by the analytical methods of the EPA publication SW-846, *Test Methods for Evaluating Solid Waste*, Third Edition, November 1986, and as listed in the July 8, 1987, edition of the *Federal Register* and later editions.