

GW - 113

REPORTS

YEAR(S):

1991

SHALLOW SUBSURFACE INVESTIGATION
AT THE EUNICE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

PREPARED FOR
TRANSWESTERN PIPELINE COMPANY
ROSWELL, NEW MEXICO

RECEIVED
MAR 22 1993
OIL CONSERVATION DIV.
SANTA FE

PREPARED BY
METRIC CORPORATION
ALBUQUERQUE, NEW MEXICO

DECEMBER 1991

ENCOTEC

Project Name: RESS

3985 RESEARCH PARK DRIVE

Project Number: 89025

ANN ARBOR, MI 48108

Report Date: March 23, 1993

(313) 761-1389

Sample Type: Waste

DATA SUMMARY SHEET

Sample Name		EUN-1A				
Sample Date		2/25/93				
Parameter	Units	Encotec Sample I.D. Number				
		200007145				
Total Petroleum Hydrocarbons	mg/Kg	69000				

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3985 Research Park Drive * Ann Arbor, MI 48108
313 / 761-1389

ORGANIC ANALYSIS DATA SUMMARY SHEET

Project Name: RESS
Project Number: 89025
Method: 8020
Report Date: March 24, 1993

Sample I.D.: EUN-1A
Sample Date: 02/25/93
Date Received: 03/08/93
Date Analyzed: 03/18/93
ENCOTEC I.D.: 200007145
QC Set I.D.: FS031793-1V

U = Analyte not detected
B = Analyte present in
method blank

VOLATILE ORGANICS B-E-T-X	CAS NUMBER	CONC. (mg/Kg)	DETECTION LIMIT (mg/Kg)
Benzene	71-43-2	U	0.02
Ethylbenzene	100-41-4	U	0.02
Toluene	108-88-3	U	0.02
1,2-Xylene	95-47-6	U	0.02
1,3-Xylene *	108-38-3	U	0.04
1,4-Xylene *	106-42-3		

* Compounds co-elute; reported together as 1,3-Xylene.

Analysis results reported on a X WET DRY weight basis.

Percent Total Solids N/A

(313) 761-1389

Project Name: RESS

Project Number: 89025.

Report Date: March 23, 1993

Sample Type: TCLP Leachate

Around EAST
UST AREA
Soil

DATA SUMMARY SHEET

[illegible]

ENCOTEC

Project Name: RESS

3985 RESEARCH PARK DRIVE

Project Number: 89025

ANN ARBOR, MI 48108

Report Date: March 23, 1993

(313) 761-1389

Sample Type: Waste

DATA SUMMARY SHEET

Sample Name		EUN-1B				
Sample Date		2/25/93				
Parameter	Units	Encotec Sample I.D. Number				
		200007146				
Total Petroleum Hydrocarbons	mg/Kg	54000				

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ORGANIC ANALYSIS DATA SUMMARY SHEET

Project Name: RESS
Project Number: 89025
Method: 8020
Report Date: March 24, 1993

Sample I.D.: EUN-1B
Sample Date: 02/25/93
Date Received: 03/08/93
Date Analyzed: 03/17/93
ENCOTEC I.D.: 200007146
QC Set I.D.: FS031793-1V

U = Analyte not detected
B = Analyte present in
method blank

VOLATILE ORGANICS B-E-T-X	CAS NUMBER	CONC. (mg/Kg)	DETECTION LIMIT (mg/Kg)
Benzene	71-43-2	U	0.002
Ethylbenzene	100-41-4	U	0.002
Toluene	108-88-3	U	0.002
1,2-Xylene	95-47-6	U	0.002
1,3-Xylene *	108-38-3	U	0.004
1,4-Xylene *	106-42-3		

* Compounds co-elute; reported together as 1,3-Xylene.

Analysis results reported on a X WET ___ DRY weight basis.

Percent Total Solids N/A

Project Name: RESS

Project Number: 89025

Report Date: March 23, 1993

Sample Type: TCLP Leachate

Soil Under
Oil

Soil Under
ENGINE ROOM
EAST END

DATA SUMMARY SHEET

[illegible]

ENCOTEC

Project Name: RESS

3985 RESEARCH PARK DRIVE

Project Number: 89025

ANN ARBOR, MI 48108

Report Date: March 23, 1993

(313) 761-1389

Sample Type: Waste

DATA SUMMARY SHEET

Sample Name		EUN-1C				
Sample Date		2/25/93				
Parameter	Units	Encotec Sample I.D. Number				
		200007147				
Total Petroleum Hydrocarbons	mg/Kg	1800				

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ORGANIC ANALYSIS DATA SUMMARY SHEET

Project Name: RESS
Project Number: 89025
Method: 8020
Report Date: March 24, 1993

Sample I.D.: EUN-1C
Sample Date: 02/25/93
Date Received: 03/08/93
Date Analyzed: 03/17/93
ENCOTEC I.D.: 200007147
QC Set I.D.: FS031793-1V

U = Analyte not detected
B = Analyte present in
method blank

VOLATILE ORGANICS B-E-T-X	CAS NUMBER	CONC. (mg/Kg)	DETECTION LIMIT (mg/Kg)
Benzene	71-43-2	U	0.002
Ethylbenzene	100-41-4	U	0.002
Toluene	108-88-3	U	0.002
1,2-Xylene	95-47-6	U	0.002
1,3-Xylene *	108-38-3	U	0.004
1,4-Xylene *	106-42-3		

* Compounds co-elute; reported together as 1,3-Xylene.

Analysis results reported on a X WET DRY weight basis.

Percent Total Solids N/A

(313) 761-1389

Project Name: RESS

Project Number: 89025

Report Date: March 23, 1993

Sample Type: TCLP Leachate

Oil Outside
of Engine Room
Pooled

DATA SUMMARY SHEET

[illegible]

ENCOTEC

Project Name: RESS

3985 RESEARCH PARK DRIVE

Project Number: 89025

ANN ARBOR, MI 48108

Report Date: March 23, 1993

(313) 761-1389

Sample Type: Waste

DATA SUMMARY SHEET

Sample Name		EUN-1D				
Sample Date		2/25/93				
Parameter	Units	Encotec Sample I.D. Number				
		200007148				
Total Petroleum	mg/Kg	870000				
Hydrocarbons						

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ORGANIC ANALYSIS DATA SUMMARY SHEET

Project Name: RESS
Project Number: 89025
Method: 8020
Report Date: March 24, 1993

Sample I.D.: EUN-1D
Sample Date: 02/25/93
Date Received: 03/08/93
Date Analyzed: 03/17/93
ENCOTEC I.D.: 200007148
QC Set I.D.: FS031793-1V

U = Analyte not detected
B = Analyte present in
method blank

VOLATILE ORGANICS B-E-T-X	CAS NUMBER	CONC. (mg/Kg)	DETECTION LIMIT (mg/Kg)
Benzene	71-43-2	U	0.002
Ethylbenzene	100-41-4	0.002	0.002
Toluene	108-88-3	U	0.002
1,2-Xylene	95-47-6	U	0.002
1,3-Xylene *	108-38-3	U	0.004
1,4-Xylene *	106-42-3		

* Compounds co-elute; reported together as 1,3-Xylene.

Analysis results reported on a X WET DRY weight basis.

Percent Total Solids N/A

(313) 761-1389

Sample Type: TCLP Leachate

Oil Phase
Under East
Engine Room

[illegible]

ENCOTEC

Project Name: RESS

3985 RESEARCH PARK DRIVE

Project Number: 89025

ANN ARBOR, MI 48108

Report Date: March 23, 1993

(313) 761-1389

Sample Type: Waste

DATA SUMMARY SHEET

Sample Name		EUN-1E				
Sample Date		2/25/93				
Parameter	Units	Encotec Sample I.D. Number				
		200007149				
Total Petroleum Hydrocarbons	mg/Kg	850000				

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ORGANIC ANALYSIS DATA SUMMARY SHEET

Project Name: RESS
Project Number: 89025
Method: 8020
Report Date: March 24, 1993

Sample I.D.: EUN-1E
Sample Date: 02/25/93
Date Received: 03/08/93
Date Analyzed: 03/17/93
ENCOTEC I.D.: 200007149
QC Set I.D.: FS031793-1V

U = Analyte not detected
B = Analyte present in
method blank

VOLATILE ORGANICS B-E-T-X	CAS NUMBER	CONC. (mg/Kg)	DETECTION LIMIT (mg/Kg)
Benzene	71-43-2	U	0.002
Ethylbenzene	100-41-4	U	0.002
Toluene	108-88-3	U	0.002
1,2-Xylene	95-47-6	0.03	0.002
1,3-Xylene *	108-38-3	U	0.004
1,4-Xylene *	106-42-3		

* Compounds co-elute; reported together as 1,3-Xylene.

Analysis results reported on a X WET DRY weight basis.

Percent Total Solids N/A

(313) 761-1389

Sample Type: TCLP Leachate

RIVE Emulsion Phase
Under East Engine
Room

[illegible]

ENCOTEC

Project Name: RESS

3985 RESEARCH PARK DRIVE

Project Number: 89025

ANN ARBOR, MI 48108

Report Date: March 23, 1993

(313) 761-1389

Sample Type: Waste

DATA SUMMARY SHEET

Sample Name		EUN-1F				
Sample Date		2/25/93				
Parameter	Units	Encotec Sample I.D. Number				
		200007150				
Total Petroleum Hydrocarbons	mg/Kg	6400				

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ORGANIC ANALYSIS DATA SUMMARY SHEET

Project Name: RESS
Project Number: 89025
Method: 8020
Report Date: March 24, 1993

Sample I.D.: EUN-1F
Sample Date: 02/25/93
Date Received: 03/08/93
Date Analyzed: 03/17/93
ENCOTEC I.D.: 200007150
QC Set I.D.: FS031793-1V

U = Analyte not detected
B = Analyte present in
method blank

VOLATILE ORGANICS B-E-T-X	CAS NUMBER	CONC. (mg/Kg)	DETECTION LIMIT (mg/Kg)
Benzene	71-43-2	U	0.002
Ethylbenzene	100-41-4	U	0.002
Toluene	108-88-3	U	0.002
1,2-Xylene	95-47-6	U	0.002
1,3-Xylene *	108-38-3	U	0.004
1,4-Xylene *	106-42-3		

* Compounds co-elute; reported together as 1,3-Xylene.

Analysis results reported on a X WET ___ DRY weight basis.

Percent Total Solids N/A

(313) 761-1389

Sample Type: TCLP Leachate

SOIL Under
Removed 6K
gal Oil Tank

[illegible]

ENCOTEC

Project Name: RESS

3985 RESEARCH PARK DRIVE

Project Number: 89025

ANN ARBOR, MI 48108

Report Date: March 23, 1993

(313) 761-1389

Sample Type: Waste

DATA SUMMARY SHEET

Sample Name		EUN-1G				
Sample Date		2/25/93				
Parameter	Units	Encotec Sample I.D. Number				
		200007151				
Total Petroleum Hydrocarbons	mg/Kg	66000				

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ORGANIC ANALYSIS DATA SUMMARY SHEET

Project Name: RESS
Project Number: 89025
Method: 8020
Report Date: March 24, 1993

Sample I.D.: EUN-1G
Sample Date: 02/25/93
Date Received: 03/08/93
Date Analyzed: 03/17/93
ENCOTEC I.D.: 200007151
QC Set I.D.: FS031793-1V

U = Analyte not detected
B = Analyte present in
method blank

VOLATILE ORGANICS B-E-T-X	CAS NUMBER	CONC. (mg/Kg)	DETECTION LIMIT (mg/Kg)
Benzene	71-43-2	U	0.02
Ethylbenzene	100-41-4	U	0.02
Toluene	108-88-3	U	0.02
1,2-Xylene	95-47-6	0.030	0.02
1,3-Xylene *	108-38-3	0.047	0.04
1,4-Xylene *	106-42-3		

* Compounds co-elute; reported together as 1,3-Xylene.

Analysis results reported on a X WET DRY weight basis.

Percent Total Solids N/A

SHALLOW SUBSURFACE INVESTIGATION
AT THE EUNICE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

PREPARED FOR
TRANSWESTERN PIPELINE COMPANY
ROSWELL, NEW MEXICO

PREPARED BY
METRIC CORPORATION
ALBUQUERQUE, NEW MEXICO

DECEMBER 1991

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SHALLOW SUBSURFACE INVESTIGATION
AT THE EUNICE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

Summary

During September and October 1991, METRIC Corporation assisted Transwestern Pipeline Company in conducting soil borings and assessment of the presence of organic constituents at the Eunice Compressor Station. Borehole samplings were conducted around the compressor building, pipeline liquids tank and a backfilled drain pit next to the building. Two monitor wells were installed to sample the shallow groundwater that occurs in the area. BTEX constituents were detected between the surface and four feet deep in BH-1, 6, 7, 9, 12, 14, 15, 18, 19 and 21. BTEX was detected at deeper intervals in BH-12, 14, 19 and 21. TRPH levels were found to be over 100 mg/kg between the surface and four feet deep at BH-1, 6, 7, 8, 9, 12, 14, 15, 18, 19 and 21. TRPH levels above 100 mg/kg occurred deeper than four feet only in BH-14. TCLP-O and-F series analyses were below detection limits for all the boreholes except BH-12 and BH-14. TCLP-M for metals produced hits at all the boreholes. Groundwater sample analyses indicated hits for purgeable aromatics in both monitor wells. Selected purgeable halocarbons were detected only in MW-1. Metals were detected in both groundwater samples. FIGURES 1 and 2 indicate the areas where organic constituents were detected. Lab analyses indicate further investigation of the ground water near MW-2 is warranted.

SHALLOW SUBSURFACE INVESTIGATION
AT THE EUNICE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

Introduction

During September and October 1991, METRIC Corporation assisted Transwestern Pipeline Company, operator for the Eunice Compressor Station, in conducting soil borings and assessment of the presence of organic constituents at the Eunice Compressor Station. Results of this subsurface investigation are presented in this report.

The compressor station is located approximately 3 miles south of Eunice, New Mexico. Three sites were considered for evaluation; the waste water collection area within the compressor building, pipeline liquids tank and a backfilled liquids disposal pit (drain pit). These sites are regulated under the environmental jurisdiction of the Oil Conservation Division and the Environmental Department for the State of New Mexico.

Twenty-one boreholes were developed on plant property at the three investigation sites. Borehole locations are indicated on PLATE 1.

Borehole Sampling and Analytical Field Screening

Borehole drilling at the Eunice Plant was provided for the investigation by METRIC Corporation using a CME-55 auger drilling rig equipped with 3 1/4-inch hollow stem augers and a CME continuous sampling system. Augers and continuous samplers were steam cleaned to eliminate contamination within a borehole and potential cross contamination among boreholes.

Drilling was generally conducted to the depth of an underlying impermeable caliche layer, or to the water table. Soil cores withdrawn using the continuous sampler were scanned with a portable organic vapor analyzer (OVA), also called a flame ionization detector, in order to guide sample selection. If OVA readings indicated the presence of organic compounds in the soil core, a lab sample was taken at the point of highest reading. Lab samples were also collected if soil cores were discolored. Samples were collected in 8 oz. jars, placed on ice, and accompanied with a properly completed chain of custody form and shipped by Federal Express overnight delivery to Assaigai Laboratories in Albuquerque, New Mexico. Analyses for aromatic volatile organics (EPA 602/8020), total recoverable petroleum hydrocarbons (TRPH) (EPA 418.1), toxicity characteristic leaching procedure (TCLP)-F series (EPA 8240), TCLP O series (EPA 8270) and TCLP M series (EPA 1311/200) were performed on all the collected samples. Borehole sample logs are provided in APPENDIX A. Boreholes were plugged using redi-mix concrete poured slowly from the top.

The occurrence of shallow groundwater prompted the installation of two monitor wells in boreholes BH-19 and BH-20. They are labeled MW-1 and MW-2, respectively (see PLATE-1). Construction diagrams are provided in APPENDIX B. Before sampling, each monitor well was bailed to remove at least fifteen casing volumes. Water samples were shipped to Assaigai Laboratories to be analyzed for selected purgeable aromatics, selected purgeable halocarbons (EPA 601), total aluminum (EPA 202), total barium (EPA 208), total calcium (EPA 215.1), total chromium (EPA 218), total iron (EPA 236), total lead (EPA 239), total lithium (EPA 200), total magnesium (EPA 242.1), total manganese (EPA 243), total potassium (EPA 258.1), total sodium (EPA 273.1), total strontium (EPA 200) and total zinc (EPA 289).

Analytical Results

The analyses performed for the soil sampling at the Eunice Plant, are presented in TABLES 1, 2, 3 and 4 for, 1) benzene, toluene, ethylbenzene, and xylenes (BTEX), and total recoverable petroleum hydrocarbons 2) toxicity characteristic leaching procedure (TCLP-M) for metals, 3) TCLP-O for organics and 4) TCLP-F for F series. Laboratory reports are provided in APPENDIX C.

Four boreholes were drilled around the compressor building (BH-1 to 4) to determine the extent of leakage from a waste water collection area within the building. The analyses for BTEX at BH-1 which was the closest borehole to the collection area showed hits for toluene, ethyl benzene and xylenes, respectively at the 2.5 ft. depth level. TRPH was 160 mg/kg at the same interval depth level. BH-2 and 3 showed hits below 100 mg/kg for TRPH between 0 and 10 ft. deep. BTEX and TRPH was below detectable limits in BH-4. TCLP-M for metals showed hits below toxic characteristic (TC) target values for arsenic in BH-1 and BH-4. Hits below TC target values for barium occurred in BH-1, 2 and 4 with the highest reading occurring at 3 ft. deep in BH-1. Cadmium was present below target at values in BH-2 and 4. All other RCRA metals were below RCRA target values. Chromium was indicated in BH-2 and 4. Lead was detected in BH-4 at the 0 - 2 feet interval and at 51 feet. Mercury was detected in BH-1, 2 and 3. Hits for silver occurred in BH-3 and BH-4 with the highest reading occurring about 30 ft. deep in BH-4. TCLP-O and-F series analyses were below detectable limits.

Three boreholes (BH-12, 13 and 14), were drilled around or near a pipeline liquids tank located in the southwest corner of the property. BTEX results indicate hits for all the constituents in BH-14 with the highest concentrations occurring between 8 and 51 ft. Maximum levels for benzene, toluene, ethly benzene and

TABLE 1

SUMMARY OF ANALYTICAL RESULTS FOR BTEX
AND TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

Borehole Number	Sample Depth	PARAMETER (MG/KG)				
		Benzene	Toluene	Ethyl Benzene	Xylenes	TRPH
						<u>418.1</u>
BH-1	2.3-2.5	BDL	0.24	0.15	1.10	160
	2.9-3.1	BDL	BDL	BDL	BDL	BDL
	10.1-10.5	BDL	BDL	BDL	BDL	BDL
	21.2-21.4	BDL	BDL	BDL	BDL	8.0
	31.2-31.4	BDL	BDL	BDL	BDL	BDL
	48.8-49.0	BDL	BDL	BDL	BDL	BDL
BH-2	0.0-2.7	BDL	BDL	BDL	BDL	20
	8.4-9.4	BDL	BDL	BDL	BDL	8.0
	35.4-35.6	BDL	BDL	BDL	BDL	BDL
	50.2-50.6	BDL	BDL	BDL	BDL	BDL
BH-3	0.0-1.2	BDL	BDL	BDL	BDL	32
	9.9-10.1	BDL	BDL	BDL	BDL	BDL
	30.4-30.7	BDL	BDL	BDL	BDL	BDL
	50.1-50.4	BDL	BDL	BDL	BDL	BDL
BH-4	0.0-2.6	BDL	BDL	BDL	BDL	BDL
	8.7-9.7	BDL	BDL	BDL	BDL	BDL
	21.3-21.7	BDL	BDL	BDL	BDL	BDL
	29.6-29.9	BDL	BDL	BDL	BDL	BDL
	51.0-51.3	BDL	BDL	BDL	BDL	BDL
BH-5	0.0-2.3	BDL	BDL	BDL	BDL	200
BH-6	0.0-1.95	BDL	BDL	0.13	0.25	5,400
BH-7	0.0-1.1	BDL	BDL	0.12	0.29	14,000
BH-8	0.0-1.3	BDL	BDL	BDL	BDL	180

TABLE 1 (CONTINUED)

SUMMARY OF ANALYTICAL RESULTS FOR BTEX
AND TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

Borehole Number	Sample Depth	PARAMETER (MG/KG)				
		Benzene	Toluene	Ethyl Benzene	Xylenes	418.1 TRPH
BH-9	0.0-2.5	BDL	BDL	0.55	1.6	6,000
BH-10	0.0-2.0	BDL	BDL	BDL	BDL	BDL
BH-11	1.0-2.8	BDL	BDL	BDL	BDL	BDL
BH-12	0.8-2.1	BDL	BDL	BDL	0.14	1,400
	3.4-3.9	BDL	BDL	BDL	0.19	100
	16.7-17.1	BDL	BDL	BDL	BDL	BDL
	25.9-26.3	BDL	BDL	BDL	BDL	BDL
	50.1-50.5	BDL	BDL	BDL	0.19	BDL
BH-13	1.0-2.7	BDL	BDL	BDL	BDL	BDL
BH-14	1.0-2.8	BDL	BDL	0.36	0.53	1,600
	3.1-4.4	BDL	BDL	0.81	0.54	1,200
	7.2-7.6	0.13	BDL	6.4	3.7	1,800
	7.9-9.2	1.3	1.3	17.0	29.0	6,200
	29.9-30.3	0.11	3.3	12.0	25.0	5,200
	51.3-51.7	1.5	11.0	18.0	34.0	7,600
	55.6-56.0	BDL	BDL	BDL	BDL	16
BH-15	0.7-1.4	BDL	BDL	0.16	0.13	120
BH-16	0.0-1.2	BDL	BDL	BDL	BDL	40
BH-17	0.2-0.9	BDL	BDL	BDL	BDL	BDL

TABLE 1 (CONTINUED)

SUMMARY OF ANALYTICAL RESULTS FOR
AND TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

Borehole Number	Sample Depth	PARAMETER (MG/KG)				
		Benzene	Toluene	Ethyl Benzene	Xylenes	TRPH
						418.1
BH-18	0.5-2.6	BDL	BDL	BDL	0.19	3,500
BH-19	0.9-1.9	BDL	BDL	BDL	0.29	33,000
	21.5-22.0	BDL	BDL	BDL	BDL	BDL
	58.1-58.5	BDL	BDL	BDL	0.17	BDL
BH-20	1.0-2.8	BDL	BDL	BDL	BDL	BDL
	4.8-5.5	BDL	BDL	BDL	BDL	BDL
	21.3-21.6	BDL	BDL	BDL	BDL	BDL
	31.4-31.7	BDL	BDL	BDL	BDL	BDL
	35.2-35.6	BDL	BDL	BDL	BDL	BDL
	50.0-50.3	BDL	BDL	BDL	BDL	BDL
BH-21	0.6-1.6	BDL	BDL	0.12	0.31	3,200
	15.0-15.3	BDL	BDL	BDL	BDL	BDL
	30.7-31.2	BDL	BDL	BDL	0.48	BDL
	40.0-40.2	BDL	BDL	BDL	BDL	BDL
	51.2-51.5	BDL	BDL	BDL	BDL	BDL

TABLE 2
SUMMARY OF ANALYTICAL RESULTS FOR TCLP-M
(METALS)

Borehole Number	Sample Depth	PARAMETER (MG/KG)							
		Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
BH-1	2.3-2.5	BDL	1.11	BDL	BDL	BDL	BDL	BDL	BDL
	2.9-3.1	BDL	7.89	BDL	BDL	BDL	BDL	BDL	BDL
	10.1-10.5	0.014	2.85	BDL	BDL	BDL	BDL	BDL	BDL
	21.2-21.4	0.009	1.04	BDL	BDL	BDL	BDL	BDL	BDL
	31.2-31.4	0.024	BDL	BDL	BDL	BDL	0.0002	BDL	BDL
	48.8-49.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
BH-2	0.0-2.7	BDL	0.64	0.008	BDL	BDL	0.0005	BDL	BDL
	8.4-9.4	BDL	BDL	BDL	0.04	BDL	BDL	BDL	BDL
	35.4-35.6	BDL	1.87	BDL	BDL	BDL	0.0005	BDL	BDL
	50.2-50.6	BDL	2.72	BDL	BDL	BDL	0.0006	BDL	BDL
BH-3	0.0-1.2	BDL	BDL	BDL	BDL	BDL	0.0007	BDL	BDL
	9.9-10.1	BDL	BDL	BDL	BDL	BDL	0.0007	BDL	BDL
	30.4-30.7	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.014
	50.1-50.4	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
BH-4	0.0-2.6	0.007	0.71	0.017	BDL	0.15	BDL	BDL	0.011
	8.7-9.7	BDL	1.37	BDL	BDL	BDL	BDL	BDL	0.010
	21.3-21.7	BDL	0.78	BDL	BDL	BDL	BDL	BDL	BDL
	29.6-29.9	0.024	BDL	BDL	0.04	BDL	BDL	BDL	0.027
	51.0-51.3	0.006	BDL	0.023	0.06	0.27	BDL	BDL	0.016
BH-5	0.0-2.3	BDL	1.18	BDL	BDL	BDL	BDL	BDL	0.018
BH-6	0.0-1.95	0.006	BDL	BDL	0.04	BDL	BDL	BDL	0.026
BH-7	0.0-1.1	BDL	0.86	BDL	BDL	BDL	BDL	BDL	0.012
BH-8	0.0-1.3	BDL	0.65	BDL	BDL	BDL	BDL	BDL	0.019
BH-9	0.0-2.5	BDL	0.86	BDL	BDL	BDL	BDL	BDL	0.012
BH-10	0.0-2.0	BDL	BDL	0.029	0.04	0.25	0.0002	BDL	0.026
BH-11	1.0-2.8	BDL	0.62	0.013	BDL	0.11	BDL	BDL	BDL

TABLE 2 (Continued)
SUMMARY OF ANALYTICAL RESULTS FOR TCLP-M
(METALS)

Borehole Number	Sample Depth	PARAMETER (MG/KG)							
		Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
BH-12	0.8-2.1	BDL	BDL	0.027	0.04	0.25	0.0008	BDL	0.028
	3.4-3.9	0.020	3.18	BDL	BDL	BDL	BDL	BDL	BDL
	16.7-17.1	0.006	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	25.9-26.3	0.011	BDL	BDL	0.030	BDL	BDL	BDL	0.014
	50.1-50.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
BH-13	1.0-2.7	BDL	BDL	0.029	BDL	0.12	BDL	BDL	0.010
BH-14	1.0-2.8	BDL	0.59	0.013	0.03	0.13	BDL	BDL	BDL
	3.1-4.4	0.009	BDL	0.012	BDL	0.18	BDL	BDL	BDL
	7.2-7.6	0.010	3.31	0.029	0.04	BDL	BDL	BDL	0.027
	7.9-9.2	0.009	2.24	0.028	0.03	BDL	BDL	BDL	0.026
	29.9-30.3	0.005	BDL	0.018	BDL	BDL	BDL	BDL	0.012
	51.3-51.7	BDL	BDL	0.015	0.02	BDL	BDL	BDL	0.010
	55.6-56.0	0.007	BDL	BDL	0.03	BDL	BDL	BDL	0.014
BH-15	0.7-1.4	BDL	0.89	0.016	BDL	0.22	BDL	BDL	BDL
BH-16	0.0-1.2	BDL	BDL	0.014	BDL	0.21	BDL	BDL	BDL
BH-17	0.2-0.9	BDL	BDL	0.005	BDL	0.16	BDL	BDL	BDL
BH-18	0.5-2.6	BDL	BDL	0.013	BDL	0.13	BDL	BDL	BDL
BH-19	0.9-1.9	BDL	0.54	BDL	BDL	BDL	BDL	BDL	0.013
	21.5-22.0	0.012	BDL	BDL	0.07	BDL	BDL	BDL	0.029
	58.1-58.5	BDL	BDL	0.015	BDL	BDL	BDL	BDL	BDL
BH-20	1.0-2.8	BDL	0.02	0.013	BDL	0.11	BDL	BDL	BDL
	4.8-5.5	0.044	3.60	0.026	0.04	BDL	BDL	BDL	0.033
	21.3-21.6	0.014	BDL	0.027	0.04	BDL	BDL	BDL	0.030
	31.4-31.7	0.018	1.09	0.027	0.05	BDL	BDL	BDL	0.028
	35.2-35.6	0.008	2.20	BDL	BDL	BDL	BDL	BDL	0.015
	50.0-50.3	0.007	0.98	0.024	0.03	BDL	BDL	BDL	0.023
BH-21	0.6-1.6	0.008	2.39	BDL	0.025	BDL	BDL	BDL	0.023
	15.0-15.3	BDL	5.07	BDL	BDL	BDL	BDL	BDL	0.012
	30.7-31.2	0.032	BDL	BDL	0.026	BDL	BDL	BDL	0.028
	40.0-40.2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	51.2-51.5	0.013	BDL	BDL	BDL	BDL	BDL	BDL	0.028

TABLE 4
SUMMARY OF ANALYTICAL RESULTS
FOR TCLP-F

[illegible]

xylenes were 1.5, 11.0, 18.0 and 34.0 mg/kg, respectively at 51 ft. deep. BH-12 indicated BTEX hits at 2, 4 and 50 ft. intervals. BH-13 BTEX and TRPH concentrations were below detectable limits. TRPH concentrations in BH-14 ranged from 1,200 to 7,600 mg/kg and increased with depth. TRPH was detected above 100 mg/kg in BH-12 at the surface. TCLP-M for metals indicated hits in each of the boreholes for arsenic, barium, cadmium, chromium, lead, mercury and silver, but below TC target values. In the TCLP-F series (TABLE 4) hits were indicated in BH-12 and 14. Cresylic acid was found at 3.9 ft. deep in BH-12 and ethyl benzene, xylene and toluene found in BH-14. TCLP-O series analyses showed M and P-cresol at the surface in BH-12 all other samples were below detection limits. One additional borehole (BH-21) was drilled at the end of an abandoned drainage ditch that had run along the south fence from the pipeline liquids tank to the southeast corner of the property. BTEX analyses indicated the presence of ethyl benzene and xylenes at the surface. TRPH was detected at the surface at a concentration of 3,200 mg/kg. TCLP-M for metals showed hits for arsenic, barium, chromium and silver below target levels. TCLP for-O and-F series constituents were below detectable limits.

Drawings of the drain pit next to the compressor building indicated the pit bottom to have been constructed on the top of an underlying caliche bed about 2.5 ft. below the surface of the ground. Previous boreholes indicated organic constituents to have been contained by this caliche layer. BH-7 was drilled as close as practicable to the pit and as deep as the top of the caliche. BTEX analyses indicated hits for ethyl benzene and xylenes. TRPH was measured at 14,000 mg/kg. TCLP-M for metals detected hits below target levels for barium and silver. TCLP-O and F series analyses were below detection limits.

Ten additional shallow boreholes (BH-5, 6, 8, 9, 10, 11, 15, 16, 17 and 18), were drilled and sampled around the plant site to the top of the underlying caliche layer at about 3.0 ft. Hits for BTEX were detected in BH-6, 9, 15 and 18. TRPH concentrations above 100 mg/kg were detected in BH-5, 6, 8, 9, 15 and 18. TRPH concentrations ranged from 120 to 6,000 mg/kg.

Boreholes BH-19 and 20 were drilled to install ground water monitoring wells. Soil sample results from the BTEX analyses showed hits for xylenes at the surface and at the 58 ft. depth interval in BH-19. BH-20 did not have detectable concentrations of BTEX. TRPH was detected at 33,000 mg/kg at the surface in BH-19. TRPH was not detected in BH-20. TCLP for metals indicated hits below TC target levels for arsenic, barium, cadmium, lead and silver in both boreholes. All maximum levels occurred in BH-20 with the exception of chromium which occurred in BH-19. TCLP-O and-F series analyses were below detection limits.

Analysis results (TABLE 5) for selected purgeable aromatics from the MW-1 water samples showed hits of 3.2, 2.9, 2.3, 1.1 and 1.8 ug/L for benzene, 1,4-dichlorobenzene, 1,2-dichlorobenzene, ethyl benzene and toluene, respectively. MW-2 samples indicated a hit of 5,200 ug/L for benzene and 1,200 ug/L for ethyl benzene. Selected purgeable halocarbons showed hits of 1.6, 2.3, 2.9, 1.9 and 1.3 ug/L for dibromochloromethane, 1,2-dichlorobenzene, 1,4-dichlorobenzene, 1,2-dichloropropane and 1,1,2-trichloroethane, respectively.

Investigation Results

Results of the laboratory analysis indicate vertical movement of the organic constituents near and around the compressor building to have been contained by the underlying 1.0 foot thick indurated caliche layer at about 3 feet deep (BH-1, BH-12, BH-19 and BH-21)

TABLE 5

SUMMARY OF ANALYTICAL RESULTS FOR
MONITOR WELLS 1 AND 2

Test	MW-1	MW-2
Purgeable Aromatics	ug/L	ug/L
Benzene	5.3	5200
Chlorobenzene	BDL	BDL
1,4-Dichlorobenzene	2.9	BDL
1,3-Dichlorobenzene	BDL	BDL
1,2-Dichlorobenzene	2.3	BDL
Ethyl Benzene	1.0	1200
Toluene	6.7	BDL
Purgeable Halocarbons	ug/L	ug/L
Bromodichloromethane	BDL	BDL
Bromoform	BDL	BDL
Bromomethane	BDL	BDL
Carbon Tetrachloride	BDL	BDL
Chlorobenzene	BDL	BDL
Chloroethane	BDL	BDL
2-Chloroethyl Vinyl Ether	BDL	BDL
Chloromethane	BDL	BDL
Dibromochloromethane	1.6	BDL
1,2-Dichlorobenzene	2.3	BDL
cis-1,3-Dichlorobenzene	BDL	BDL
1,4-Dichlorobenzene	2.9	BDL
Dichlorodifluoromethane	BDL	BDL
1,1-Dichloroethane	BDL	BDL
1,2-Dichloroethane	BDL	BDL
1,1-Dichloroethene	BDL	BDL
1,2-Dichloropropane	1.9	BDL
1,3-Dichloropropene	BDL	BDL
1,1,2,2-Tetrachloroethane	BDL	BDL
trans-1,3-Dichloropropene	BDL	BDL
Methylene Chloride	BDL	BDL
1,1,1-Trichloroethane	BDL	BDL
1,1,2-Trichloroethane	1.3	BDL
Tetrachloroethene	BDL	BDL
Trichlorofluoromethane	BDL	BDL
Trichloroethene	BDL	BDL
Vinyl Chloride	BDL	BDL

TABLE 5 (CONTINUED)
SUMMARY OF ANALYTICAL RESULTS FOR
MONITOR WELLS 1 AND 2

Test	MW-1	MW-2
Metals	mg/L	mg/L
Aluminum	BDL	BDL
Barium	1.48	2.45
Calcium	190	230
Chromium	BDL	BDL
Iron	70	3.91
Lead	BDL	0.23
Lithium	0.20	0.13
Magnesium	9.90	10.0
Manganese	0.63	0.23
Potassium	4.24	11.2
Sodium	320	2500
Strontium	5.35	4.24
Zinc	0.01	0.02

BDL - Below Detection Levels

FIGURES 1 and 2. Additional shallow boreholes to the top of the caliche may indicate the horizontal extent of the contamination to extend offsite to the north of the plant site (PLATE 1). BH-14 next to the pipeline liquids tank showed organic constituents to have penetrated the caliche layer down to the ground water at about 45 feet deep, but TRPH concentrations were less than 100 mg/kg below the water table in this borehole. BH-12 located 100 feet away from the tank did not show TRPH contamination at this depth (FIGURE 2). The horizontal extent of occurrence was not completely defined. Borehole data (OVA and TRPH levels) are summarized on PLATE 2 for each borehole.

Bibliography

The following bibliographic sources document the methods utilized in performing laboratory analyses for the investigation.

Specific laboratory tests performed are indicated in parentheses.

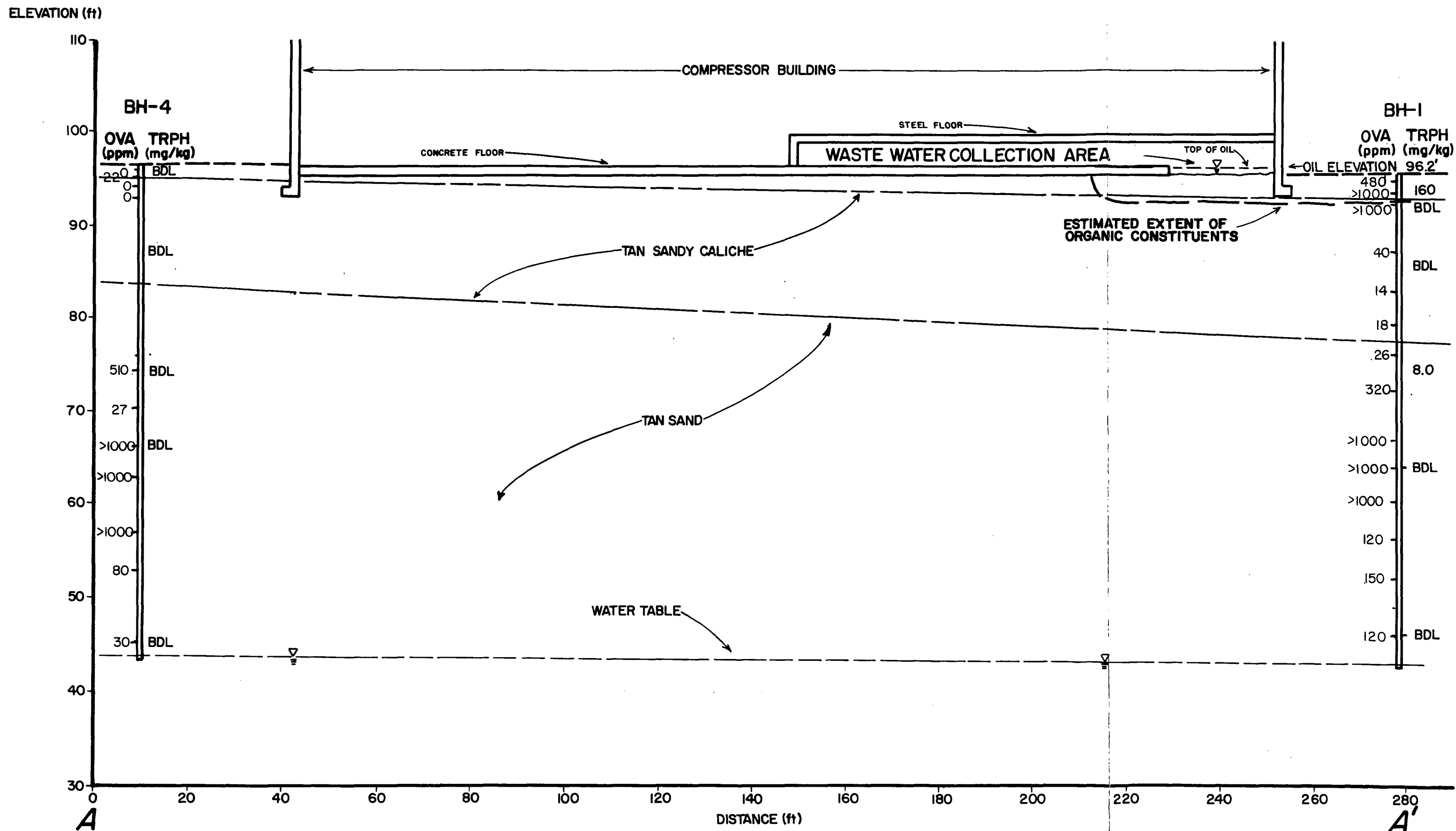
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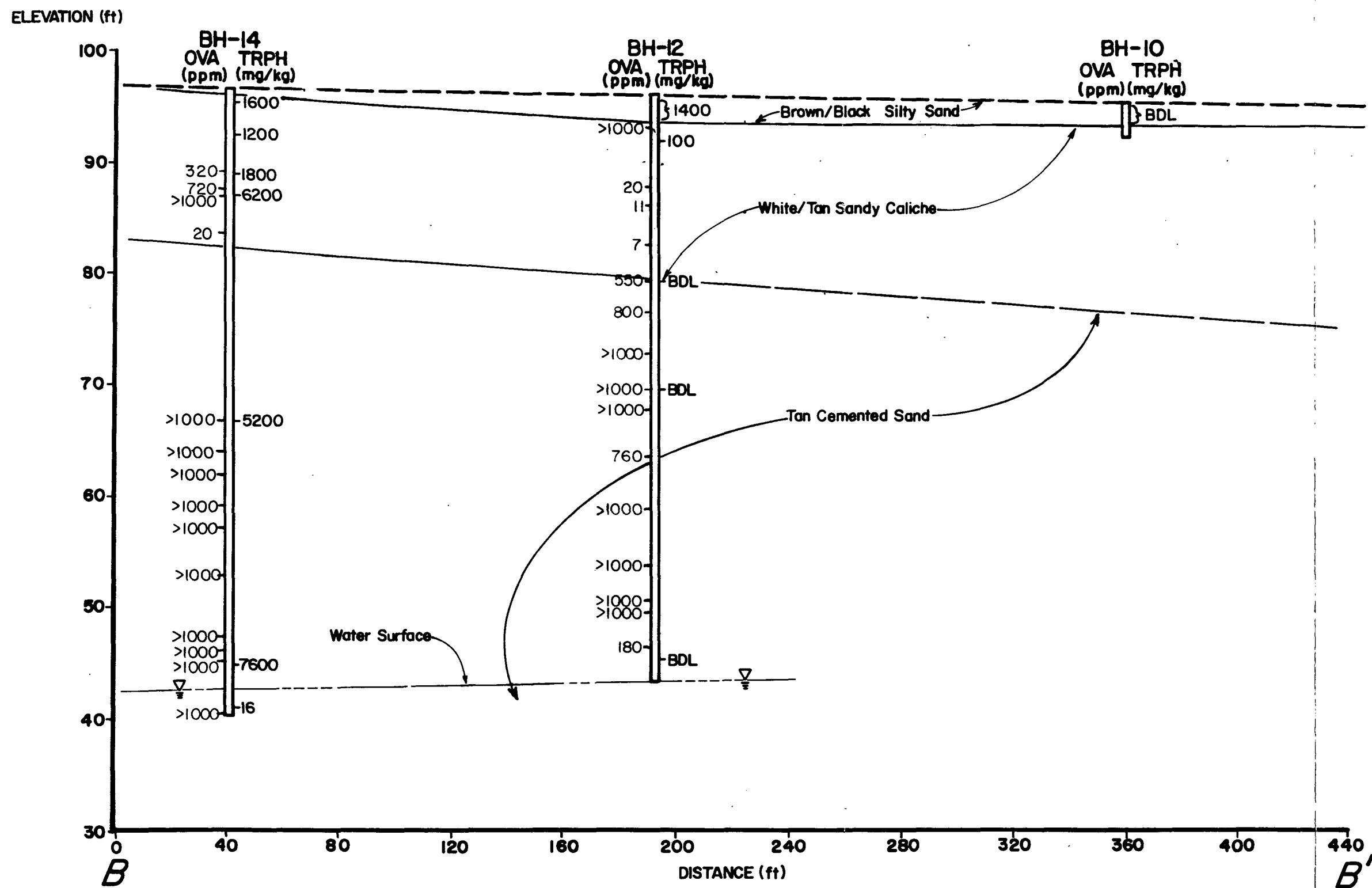
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BUILDING AREA CROSS SECTION A-A'

Figure 1



PIPELINE LIQUIDS TANK
CROSS SECTION $B-B'$
Figure 2

APPENDIX A
BOREHOLE SAMPLE LOGS

SAMPLE LOG

Borehole Number BH-1 Borehole Location 35' East of Compressor Bldg.
Property Owner Northern Natural Gas Company
Sample Logger Don Briggs, METRIC Corporation
Driller METRIC Corporation
Drilling Medium Hollow Stem Auger

Date of Completion 9/25/91 Ground Elev. 95.6' Local

Depth (feet)	Thickness (feet)	Stratigraphic Description
0 - 0.2	0.2	Asphalt
0.2 - 2.3	2.1	Dark brown fine silty sand
2.3 - 2.6	0.3	Black fine silty sand
2.6 - 2.8	0.2	No recovery
2.8 - 2.9	0.1	Black fine silty sand
2.9 - 3.3	0.4	Tan caliche
3.3 - 7.8	4.5	No recovery
7.8 - 10.7	2.9	Tan caliche
10.7 - 12.8	2.1	No recovery
12.8 - 14.0	1.2	Tan caliche
14.0 - 15.8	1.8	Tan sand
15.8 - 17.8	2.0	No recovery
17.8 - 21.6	3.8	Tan sand slightly cemented
21.6 - 22.8	1.2	No recovery
22.8 - 23.9	1.1	Tan sand
23.9 - 27.8	3.9	No recovery
27.8 - 29.2	1.4	Dark brown silty clay sand

SAMPLE LOG

Continued

Borehole Number BH-1 Borehole Location 35' East of Compressor Bldg.

(Continued from Previous Page)

Depth (feet)	Thickness (feet)	Stratigraphic Description
29.2 - 31.4	2.2	Tan cemented sand
31.4 - 32.8	1.4	No recovery
32.8 - 35.8	3.0	Tan to gray sand
35.8 - 37.8	2.0	No recovery
37.8 - 40.1	2.3	Tan sand
40.1 - 42.8	2.7	No recovery
42.8 - 45.6	2.8	Tan sand
45.6 - 47.8	2.2	No recovery
47.8 - 49.1	1.3	Tan sand

SAMPLE LOG

Borehole Number BH-2 Borehole Location 40' North of Compressor Bldg.
Property Owner Northern Natural Gas Company
Sample Logger Don Briggs, METRIC Corporation
Driller METRIC Corporation
Drilling Medium Hollow Stem Auger

Date of Completion 9/24/91 Ground Elev. 96.2' Local

Depth (feet)	Thickness (feet)	Stratigraphic Description
0 - 0.2	0.2	Asphalt
0.2 - 2.8	2.6	Black silty sand
2.8 - 7.8	5.0	No recovery
7.8 - 9.5	1.7	White caliche
9.5 - 12.8	3.3	No recovery
12.8 - 14.5	1.7	Tan sand with caliche
14.5 - 17.8	3.3	No recovery
17.8 - 21.8	4.0	Tan sand
21.8 - 22.8	1.0	No recovery
22.8 - 26.2	3.4	Tan sand
26.2 - 27.8	1.6	No recovery
27.8 - 29.4	1.6	Tan sand slightly cemented
29.4 - 32.8	3.4	No recovery
32.8 - 35.7	2.9	Tan sand with caliche
35.7 - 37.8	2.1	No recovery
37.8 - 41.6	3.8	Tan sand

SAMPLE LOG

Continued

Borehole Number BH-2 Borehole Location 40' North of Compressor Bldg

(Continued from Previous Page)

Depth (feet)	Thickness (feet)	Stratigraphic Description
41.6 - 42.8	1.2	No recovery
42.8 - 45.1	2.3	Tan sand
45.1 - 46.4	1.3	Brown silty sand
46.4 - 47.8	1.4	No recovery
47.8 - 50.8	3.0	Tan sand

SAMPLE LOG

Borehole Number BH-3 Borehole Location _____
Property Owner Northern Natural Gas Company
Sample Logger Don Briggs, METRIC Corporation
Driller METRIC Corporation
Drilling Medium Hollow Stem Auger

Date of Completion 9/25/91 Ground Elev. 96.4' Local

Depth (feet)	Thickness (feet)	Stratigraphic Description
0 - 0.2	0.2	Asphalt
0.2 - 2.7	2.5	Gray caliche
2.7 - 2.8	0.1	No recovery
2.8 - 3.8	1.0	Gray caliche
3.8 - 7.8	4.0	No recovery
7.8 - 10.4	2.6	Caliche
10.4 - 12.8	2.4	No recovery
12.8 - 13.8	2.4	Caliche
13.8 - 16.1	1.0	Tan sand with caliche
16.1 - 17.8	1.7	No recovery
17.8 - 19.9	2.1	Tan sand
19.9 - 22.2	2.3	Tan cemented sand
22.2 - 22.8	0.6	No recovery
22.8 - 24.0	1.2	Tan sand
24.0 - 27.8	3.8	No recovery
27.8 - 30.8	3.0	Tan sand
30.8 - 32.8	2.0	No recovery
32.8 - 35.9	3.1	Tan sand

SAMPLE LOG

Continued

Borehole Number BH-3 Borehole Location _____

(Continued from Previous Page)

Depth (feet)	Thickness (feet)	Stratigraphic Description
35.9 - 37.8	1.9	No recovery
37.8 - 39.6	1.8	Tan sand
39.6 - 42.8	3.2	No recovery
42.8 - 45.2	2.4	Tan sand
45.2 - 46.8	1.6	Brown silty sand cemented
46.8 - 47.8	1.0	No recovery
47.8 - 50.6	2.8	Tan sand

SAMPLE LOG

Borehole Number BH-4 Borehole Location _____
Property Owner Northern Natural Gas Company
Sample Logger Don Briggs, METRIC Corporation
Driller METRIC Corporation
Drilling Medium Hollow Stem Auger

Date of Completion 9/26/91 Ground Elev. 96.5' Local

Depth (feet)	Thickness (feet)	Stratigraphic Description
0 - 0.1	0.1	3/4" gravel fill
0.1 - 0.5	0.4	White caliche fill
0.5 - 1.5	1.0	Dark brown silty sand
1.5 - 2.5	1.0	Tan cemented sand
2.5 - 2.6	0.1	No recovery
2.6 - 3.9	1.3	Tan cemented sand
3.9 - 7.6	3.7	No recovery
7.6 - 8.7	1.1	Brown/Tan cemented sand
8.7 - 9.7	1.0	Brown/Tan sand (Discolored)
9.7 - 10.9	1.2	Tan cemented sand
10.9 - 12.6	1.7	No recovery
12.6 - 13.0	0.4	Tan cemented sand
13.0 - 15.6	2.6	Pink fine sandstone
15.6 - 16.8	1.2	Pink/Tan cemented sand
16.8 - 17.6	0.8	No recovery
17.6 - 22.0	4.4	Tan sand
22.0 - 22.6	0.6	No recovery

SAMPLE LOG

Continued

Borehole Number BH-4 Borehole Location _____

(Continued from Previous Page)

Depth (feet)	Thickness (feet)	Stratigraphic Description
22.6 - 27.0	4.4	Tan sand
27.0 - 27.6	0.6	No recovery
27.6 - 30.3	2.7	Tan sand
30.3 - 32.6	2.3	No recovery
32.6 - 35.2	2.6	Tan sand
35.2 - 37.6	2.4	No recovery
37.6 - 40.0	2.4	Tan sand
40.0 - 42.6	2.6	No recovery
42.6 - 44.5	1.9	Tan sand
44.5 - 47.6	3.1	No recovery
47.6 - 51.4	3.8	Tan sand

METRIC
Corporation

SAMPLE LOG

Borehole Number BH-5 Borehole Location _____
Property Owner Northern Natural Gas Company
Sample Logger Don Briggs, METRIC Corporation
Driller METRIC Corporation
Drilling Medium Hollow Stem Auger

Date of Completion 9/26/91 Ground Elev. 96.0' Local

Depth (feet)	Thickness (feet)	Stratigraphic Description
0 - 0.1	0.1	Brown gravel fill
0.1 - 0.5	0.4	Brown sand
0.5 - 2.3	1.8	Black/Gray sand

SAMPLE LOG

Borehole Number BH-6 Borehole Location _____
Property Owner Northern Natural Gas Company
Sample Logger Don Briggs, METRIC Corporation
Driller METRIC Corporation
Drilling Medium Hollow Stem Augers

Date of Completion 9/26/91 Ground Elev. 95.5' Local

Depth (feet)	Thickness (feet)	Stratigraphic Description
0 - 0.7	0.7	Brown sand with gravel
0.7 - 0.9	0.2	Gray sand
0.9 - 1.6	0.7	Black sand
1.6 - 1.9	0.3	Gray caliche

METRIC
Corporation

SAMPLE LOG

Borehole Number BH-7 Borehole Location _____
Property Owner Northern Natural Gas Company
Sample Logger Don Briggs, METRIC Corporation
Driller METRIC Corporation
Drilling Medium Hollow Stem Auger

Date of Completion 9/26/91 Ground Elev. 95.6' Local

Depth (feet)	Thickness (feet)	Stratigraphic Description
0 - 0.4	0.4	Brown coarse sand with gravel
0.4 - 1.1	0.7	Black sand with caliche

METRIC
Corporation

SAMPLE LOG

Borehole Number BH-8 Borehole Location SE Corner of facility
Property Owner Northern Natural Gas Company
Sample Logger Don Briggs, METRIC Corporation
Driller METRIC Corporation
Drilling Medium Hollow Stem Auger

Date of Completion 9/26/91 Ground Elev. 95.5' Local

Depth (feet)	Thickness (feet)	Stratigraphic Description
0 - 0.3	0.3	Asphalt
0.3 - 0.5	0.2	Brown sand
0.5 - 0.9	0.4	Black sand
0.9 0 1.3	0.4	Gray caliche

SAMPLE LOG

Borehole Number BH-9 Borehole Location _____
Property Owner Northern Natural Gas Company
Sample Logger Don Briggs, METRIC Corporation
Driller METRIC Corporation
Drilling Medium Hollow Stem Auger

Date of Completion 9/26/91 Ground Elev. 95.4' Local

Depth (feet)	Thickness (feet)	Stratigraphic Description
0 - 0.2	0.2	Asphalt
0.2 - 0.9	0.7	Gray sand
0.9 - 2.5	1.6	Black silty sand
2.5 - 2.7	0.2	White caliche

SAMPLE LOG

Borehole Number BH-10 Borehole Location _____
Property Owner Northern Natural Gas Company
Sample Logger Don Briggs, METRIC Corporation
Driller METRIC Corporation
Drilling Medium Hollow Stem Auger

Date of Completion 9/26/91 Ground Elev. 95.4' Local

Depth (feet)	Thickness (feet)	Stratigraphic Description
0 - 0.2	0.2	Gravel fill
0.2 - 1.1	0.9	Gray sand with gravel
1.1 - 2.0	0.9	Black silty sand
2.0 - 2.8	0.8	White caliche

SAMPLE LOG

Borehole Number BH-11 Borehole Location _____
Property Owner Northern Natural Gas Company
Sample Logger Don Briggs, METRIC Corporation
Driller METRIC Corporation
Drilling Medium Hollow Stem Auger

Date of Completion 9/26/91 Ground Elev. 95.5' Local

Depth (feet)	Thickness (feet)	Stratigraphic Description
0 - 0.3	0.3	Brown sand
0.3 - 1.0	0.7	Brown sand with caliche
1.0 - 2.8	1.8	Black silty sand
2.8 - 2.9	0.1	White caliche

SAMPLE LOG

Borehole Number BH-12 Borehole Location Pipeline Liquids Tank

Property Owner Northern Natural Gas Company

Sample Logger Don Briggs, METRIC Corporation

Driller METRIC Corporation

Drilling Medium Hollow Stem Auger

Date of Completion 9/26/91 Ground Elev. 96.2' Local

Depth (feet)	Thickness (feet)	Stratigraphic Description
0 - 0.2	0.2	Brown sand with gravel
0.2 - 0.8	0.6	Light brown sand with caliche
0.8 - 2.1	1.3	Black silty sand
2.1 - 2.6	0.5	Tan cemented sand
2.6 - 2.8	0.2	White caliche
2.8 - 3.0	0.2	White caliche
3.0 - 4.1	1.1	Tan cemented sand
4.1 - 7.8	3.7	No recovery
7.8 - 9.7	1.9	Tan cemented sand
9.7 - 11.4	1.7	White caliche
11.4 - 12.8	1.4	No recovery
12.8 - 16.6	3.8	White caliche
16.6 - 17.3	0.7	Tan cemented sand
17.3 - 17.8	0.5	No recovery
17.8 - 21.0	3.2	Tan cemented sand
21.0 - 22.8	1.8	No recovery
22.8 - 26.5	3.7	Tan cemented sand

SAMPLE LOG

Continued

Borehole Number BH-12 Borehole Location Pipeline Liquids Tank

(Continued from Previous Page)

Depth (feet)	Thickness (feet)	Stratigraphic Description
26.5 - 27.8	1.3	No recovery
27.8 - 30.9	3.1	Tan sand
30.9 - 32.8	1.9	No recovery
32.8 - 35.5	2.7	Tan sand
35.5 - 37.8	2.3	No recovery
37.8 - 39.7	1.9	Tan sand
39.7 - 42.8	3.1	No recovery
42.8 - 45.5	2.7	Tan sand
45.5 - 46.6	1.1	Brown silty sand
46.6 - 46.9	0.3	Tan sand
46.9 - 47.8	0.9	No recovery
47.8 - 50.7	2.9	Tan sand

SAMPLE LOG

Borehole Number BH-13 Borehole Location SW corner of Pipeline Liquids Tank
Property Owner Northern Natural Gas Company
Sample Logger Don Briggs, METRIC Corporation
Driller METRIC Corporation
Drilling Medium Hollow Stem Auger

Date of Completion 9/26/91 Ground Elev. 96.4' Local

Depth (feet)	Thickness (feet)	Stratigraphic Description
0 - 0.2	0.2	Brown sand
0.2 - 1.0	0.8	White caliche fill
1.0 - 2.5	1.5	Gray silty sand
2.5 - 2.8	0.3	Brown cemented sand

SAMPLE LOG

Borehole Number BH-14 Borehole Location Pipeline Liquids Tank
Property Owner Northern Natural Gas Company
Sample Logger Don Briggs, METRIC Corporation
Driller METRIC Corporation
Drilling Medium Hollow Stem Auger

Date of Completion 10/1/91 Ground Elev. 96.6' Local

Depth (feet)	Thickness (feet)	Stratigraphic Description
0 - 0.5	0.5	Brown sand
0.5 - 0.7	0.2	White caliche
0.7 - 0.9	0.2	Black sand
0.9 - 2.8	1.9	Brown silty clay sand
2.8 - 6.7	3.9	No recovery
6.7 - 7.8	1.1	Gray soft caliche
7.8 - 9.2	1.4	Dark gray caliche
9.2 - 10.8	1.6	Brown caliche
10.8 - 12.8	2.0	No recovery
12.8 - 13.8	1.0	Hard white caliche
13.8 - 27.8	14.0	No recovery
27.8 - 30.3	2.5	Tan sand
30.3 - 32.8	2.5	No recovery
32.8 - 34.4	1.6	Dark tan sand
34.4 - 35.8	1.4	Light tan/white sand
35.8 - 37.8	2.0	No recovery
37.8 - 38.3	0.5	Gray sand

SAMPLE LOG

Continued

Borehole Number BH-14 Borehole Location Pipeline Liquids Tank

(Continued from Previous Page)

Depth (feet)	Thickness (feet)	Stratigraphic Description
38.3 - 40.2	1.9	Tan sand
40.2 - 42.8	2.6	No recovery
42.8 - 44.9	2.1	Tan sand
44.9 - 47.8	2.9	No recovery
47.8 - 50.5	2.7	Tan sand
50.5 - 51.0	0.5	Silty sand
51.0 - 51.7	0.7	Tan sand
51.7 - 52.8	1.1	No recovery
52.8 - 56.2	3.4	Tan sand

SAMPLE LOG

Borehole Number BH-15 Borehole Location _____
Property Owner Northern Natural Gas Company
Sample Logger Don Briggs, METRIC Corporation
Driller METRIC Corporation
Drilling Medium Hollow Stem Auger

Date of Completion 9/27/91 Ground Elev. 97.0' Local

Depth (feet)	Thickness (feet)	Stratigraphic Description
0 - 0.2	0.2	Gravel fill
0.2 - 0.7	0.5	Tan sand
0.7 - 1.4	0.7	Dark brown sand
1.4 - 1.6	0.2	Pink sandstone

METRIC
Corporation

SAMPLE LOG

Borehole Number BH-16 Borehole Location _____
Property Owner Northern Natural Gas Company
Sample Logger Don Briggs, METRIC Corporation
Driller METRIC Corporation
Drilling Medium Hollow Stem Auger

Date of Completion 9/27/91 Ground Elev. 97.1' Local

Depth (feet)	Thickness (feet)	Stratigraphic Description
0 - 0.5	0.5	Tan sand with gravel
0.5 - 1.2	0.7	Brown silty sand
1.2 - 4.6	3.4	Tan cemented sand with caliche

METRIC
Corporation

SAMPLE LOG

Borehole Number BH-17 Borehole Location _____
Property Owner Northern Natural Gas Company
Sample Logger Don Briggs, METRIC Corporation
Driller METRIC Corporation
Drilling Medium Hollow Stem Auger

Date of Completion 9/27/91 Ground Elev. 96.7' Local

Depth (feet)	Thickness (feet)	Stratigraphic Description
0 - 0.2	0.2	Asphalt
0.2 - 0.9	0.7	Brown silty clay sand
0.9 - 1.5	0.6	White sandstone with caliche

METRIC
Corporation

SAMPLE LOG

Borehole Number BH-18 Borehole Location _____
Property Owner Northern Natural Gas Company
Sample Logger Don Briggs, METRIC Corporation
Driller METRIC Corporation
Drilling Medium Hollow Stem Auger

Date of Completion 9/27/91 Ground Elev. 95.9' Local

Depth (feet)	Thickness (feet)	Stratigraphic Description
0 - 0.2	0.2	Asphalt
0.2 - 0.5	0.3	Tan sand
0.5 - 1.1	0.6	Black silty clay sand
1.1 - 2.6	1.5	Brown silty clay sand
2.6 - 2.8	0.2	White caliche

SAMPLE LOG

Borehole Number BH-19 Borehole Location _____
Property Owner Northern Natural Gas Company
Sample Logger Don Briggs, METRIC Corporation
Driller METRIC Corporation
Drilling Medium Hollow Stem Auger

Date of Completion 9/27/91 Ground Elev. 96.8' Local

Depth (feet)	Thickness (feet)	Stratigraphic Description
0 - 0.9	0.9	Brown silty sand
0.9 - 1.9	1.0	Black silty sand
1.9 - 2.2	0.3	White caliche
2.2 - 2.7	0.5	No recovery
2.7 - 3.2	0.5	White caliche
3.2 - 4.2	1.0	Tan cemented sand
4.2 - 7.7	3.5	White cemented sand
7.7 - 12.7	5.0	No recovery
12.7 - 13.0	0.3	Gray cemented sand
13.0 - 13.6	0.6	White caliche
13.6 - 15.0	1.4	White caliche with tan sand
15.0 - 17.7	2.7	No recovery
17.7 - 22.2	4.5	Tan cemented sand
22.2 - 22.7	0.2	No recovery
22.7 - 25.6	2.9	Tan sand
25.6 - 27.7	2.1	No recovery
27.7 - 30.2	2.5	Tan cemented sand

SAMPLE LOG

Continued

Borehole Number BH-19 Borehole Location _____

(Continued from Previous Page)

Depth (feet)	Thickness (feet)	Stratigraphic Description
30.2 - 31.1	0.9	Tan sand
31.1 - 32.7	1.6	No recovery
32.7 - 35.1	2.4	Tan sand
35.1 - 37.7	2.6	No recovery
37.7 - 40.4	2.7	Tan sand
40.4 - 42.7	2.3	No recovery
42.7 - 44.8	2.1	Tan sand
44.8 - 47.7	2.9	No recovery
47.7 - 50.0	2.3	Tan sand
50.0 - 52.7	2.7	No recovery
52.7 - 54.7	2.0	Tan sand
54.7 - 57.7	3.0	No recovery
57.7 - 57.6	0.9	Tan sand

SAMPLE LOG

Borehole Number BH-20 Borehole Location _____
Property Owner Northern Natural Gas Company
Sample Logger Don Briggs, METRIC Corporation
Driller METRIC Corporation
Drilling Medium Hollow Stem Auger

Date of Completion 9/30/91 Ground Elev. 95.5' Local

Depth (feet)	Thickness (feet)	Stratigraphic Description
0 - 0.3	0.3	Brown sand
0.3 - 0.9	0.6	Brown sand with caliche
0.9 - 3.0	2.1	Black silty sand
3.0 - 3.2	0.2	Gray caliche (saturated)
3.2 - 6.0	2.8	White caliche
6.0 - 13.0	7.0	No recovery
13.0 - 17.9	4.9	White caliche
17.9 - 18.0	0.1	Tan cemented sand
18.0 - 19.8	1.8	Tan cemented sand
19.8 - 21.8	2.0	Tan slightly cemented sand
21.8 - 23.0	1.2	Tan cemented sand
23.0 - 27.3	4.3	Tan cemented sand
27.3 - 28.0	0.7	No recovery
28.0 - 32.0	4.0	Tan cemented sand
32.0 - 33.0	1.0	No recovery
33.0 - 34.8	1.8	Tan cemented sand
34.8 - 35.9	1.1	Tan sand

SAMPLE LOG

Continued

Borehole Number BH-20 Borehole Location _____

(Continued from Previous Page)

Depth (feet)	Thickness (feet)	Stratigraphic Description
35.9 - 38.0	2.1	No recovery
38.0 - 40.2	2.2	Tan sand
40.2 - 43.0	2.8	No recovery
43.0 - 45.8	2.8	Tan sand
45.8 - 48.0	2.2	No recovery
48.0 - 50.5	2.5	Tan sand
50.5 - 53.0	2.5	No recovery
53.0 - 55.2	2.2	Tan sand

SAMPLE LOG

Borehole Number BH-21 Borehole Location _____
Property Owner Northern Natural Gas Company
Sample Logger Don Briggs, METRIC Corporation
Driller METRIC Corporation
Drilling Medium Hollow Stem Auger

Date of Completion 10/2/91 Ground Elev. 95.23' Local

Depth (feet)	Thickness (feet)	Stratigraphic Description
0 - 0.6	0.6	Tan sand
0.6 - 1.8	0.6	Gray silty sand with caliche
1.8 - 2.8	1.0	No recovery
2.8 - 4.0	1.2	White caliche
4.0 - 7.8	3.8	No recovery
7.8 - 9.7	1.9	White caliche
9.7 - 12.8	3.1	No recovery
12.8 - 13.6	0.8	White caliche
13.6 - 15.5	1.9	Tan cemented sand
15.5 - 17.8	2.3	No recovery
17.8 - 18.3	0.5	Tan cemented sand
18.3 - 19.8	1.5	Tan sand
19.8 - 22.8	3.0	No recovery
22.8 - 24.9	2.1	Tan sand
24.9 - 27.8	2.9	No recovery
27.8 - 31.4	3.6	Tan slightly cemented sand

SAMPLE LOG

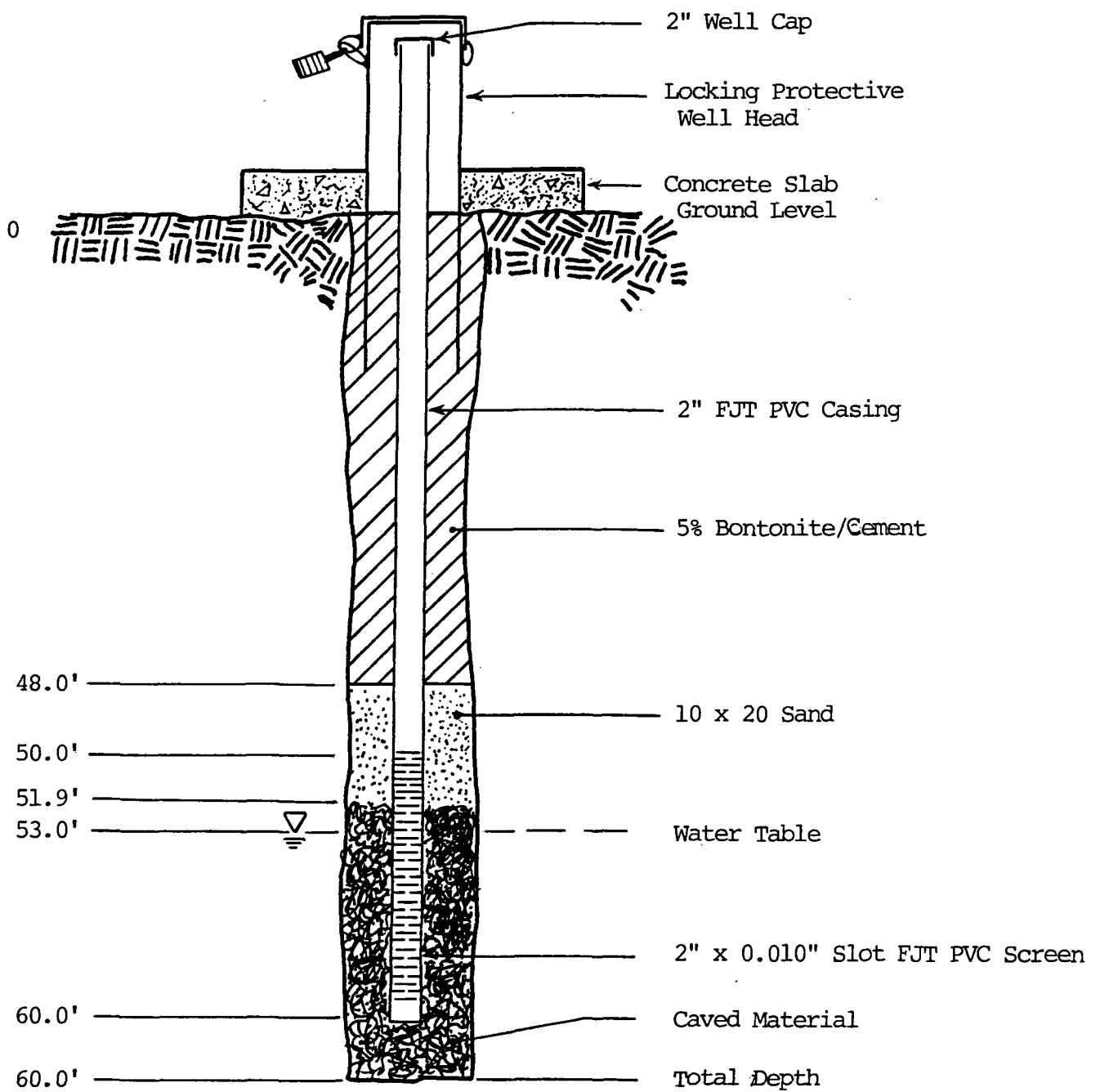
Continued

Borehole Number BH-21 Borehole Location _____

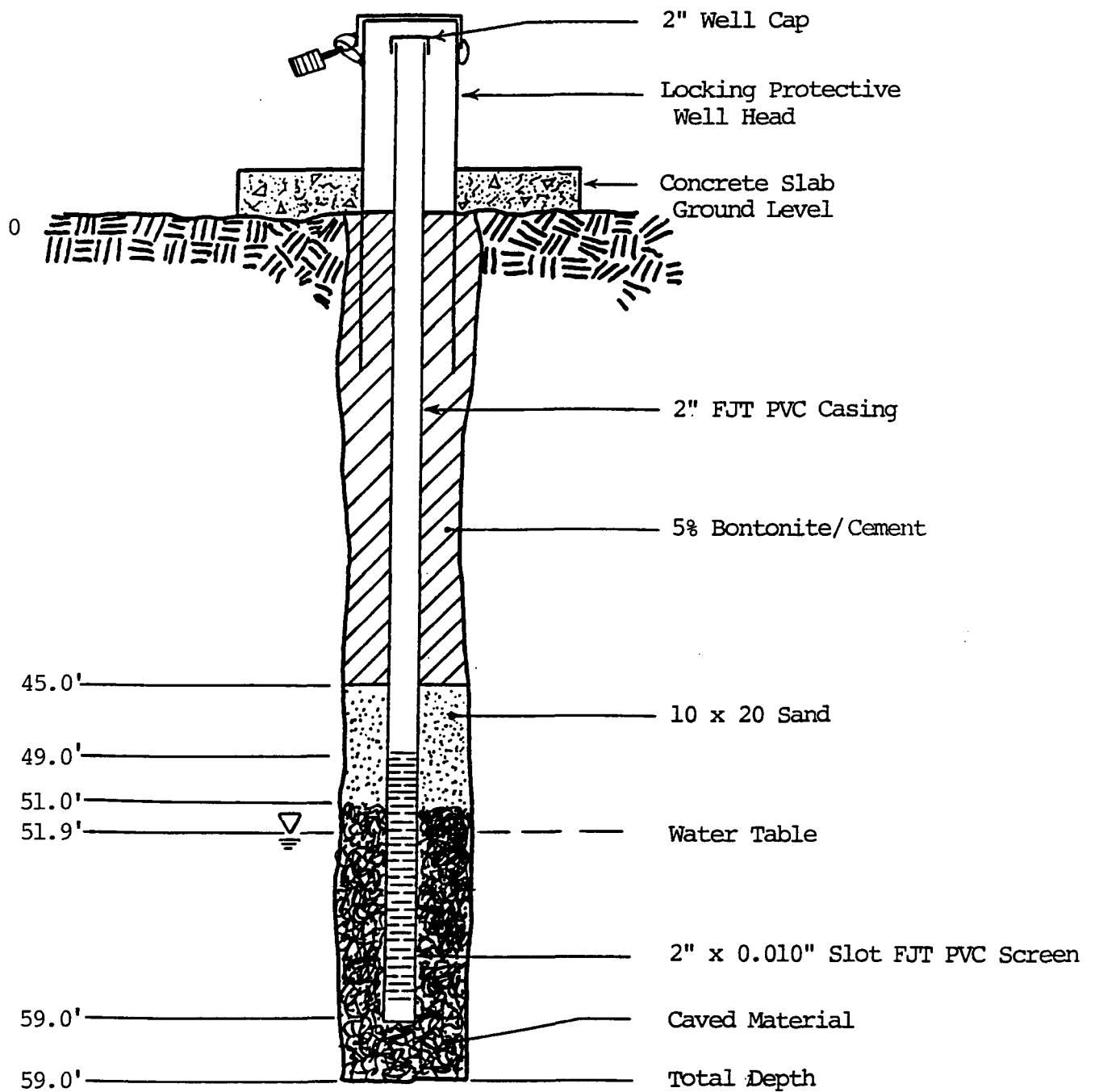
(Continued from Previous Page)

Depth (feet)	Thickness (feet)	Stratigraphic Description
31.4 - 32.8	1.4	No recovery
32.8 - 33.9	1.1	Tan slightly cemented sand
33.9 - 35.1	1.2	Tan cemented sand
35.1 - 36.4	1.3	White caliche
36.4 - 37.8	3.4	No recovery
37.8 - 39.7	1.9	Tan cemented sand
39.7 - 40.4	0.7	Tan sand
40.4 - 42.8	2.4	No recovery
42.8 - 43.8	1.0	Tan sand
43.8 - 44.0	0.2	White caliche
44.0 - 44.8	0.8	Tan sand
44.8 - 45.6	0.8	Brown silty sand
45.6 - 46.1	0.5	Tan sand
46.1 - 48.8	2.7	No recovery
48.8 - 51.7	1.9	Tan sand

APPENDIX B
MONITOR WELL CONSTRUCTION DIAGRAMS



Construction Diagram
MW-1
Eunice Compressor Station



Construction Diagram
MW-2
Eunice Compressor Station

APPENDIX C
LABORATORY REPORTS FOR
BOREHOLE SAMPLING
AND WATER SAMPLING

Assaigai Analytical Labs
7300 Jefferson NE
Albuquerque, NM 87109

Attn: SYED RIZVI
Phone: (505) 345-8964

ENRON/TRANSWESTERN PIPELINE
HOBBS PLANT
2626 WEST MARLAND
HOBBS, NM 88240
Attn: MIKE KNEESE
Invoice Number: 912180

Order #: 91-09-306
Date: 10/09/91 11:59
Work ID: HOBBS 5160
Date Received: 09/26/91
Date Completed: 10/09/91
8384

SAMPLE IDENTIFICATION

<u>Sample Number</u>	<u>Sample Description</u>
01	BH-1 2.3-2.5
03	BH-1 10.1-10.5
05	BH-1 31.2-31.4

<u>Sample Number</u>	<u>Sample Description</u>
02	BH-1 2.9-3.1
04	BH-1 21.2-21.4



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QUESTIONS ABOUT THIS REPORT SHOULD BE ADDRESSED TO:
LABORATORY OPERATIONS MANAGER/ASSAIGAI ANALYTICAL
7300 JEFFERSON N.E., ALBUQUERQUE, N.M. 87109

Syed Rizvi

Certified By
SYED N. RIZVI



Member: American Council of
Independent Laboratories, Inc.

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TEST RESULTS BY SAMPLE

Sample: 01A BH-1 2.3-2.5

Collected: 09/24/91

Test Description	Result	Limit	Units	Analyzed	By
BENZENE, TOLUENE, EBENZ, XYLE					
BENZENE	<0.1	0.1	MG/KG	10/05/91	DD
TOLUENE	0.24	0.1	MG/KG	10/05/91	DD
ETHYL BENZENE	0.15	0.1	MG/KG	10/05/91	DD
XYLENES	1.1	0.1	MG/KG	10/05/91	DD
TC1P F SERIES ENRON LIST					
METHYLENE CHLORIDE	<0.02	0.02	MG/L	10/02/91	SS
1,1,1-TRICHLOROETHANE	<0.02	0.02	MG/L	10/02/91	SS
TRICHLORO-TRIFLUOROETHANE	<0.02	0.02	MG/L	10/02/91	SS
ORTHO-DICHLOROBENZENE	<0.02	0.02	MG/L	10/02/91	SS
TRICHLOROFLUOROMETHANE	<0.02	0.02	MG/L	10/02/91	SS
XYLENE	<0.02	0.02	MG/L	10/02/91	SS
ACETONE	<10	10	MG/L	10/02/91	SS
ETHYL ACETATE	<10	10	MG/L	10/02/91	SS
ETHYL BENZENE	<0.02	0.02	MG/L	10/02/91	SS
ETHYL ETHER	<0.02	0.02	MG/L	10/02/91	SS
METHYL ISOBUTYL KETONE	<0.02	0.02	MG/L	10/02/91	SS
n-BUTYL ALCOHOL	<0.02	0.02	MG/L	10/02/91	SS
CYCLOHEXANONE	<0.02	0.02	MG/L	10/02/91	SS
METHANOL	<10	10	MG/L	10/02/91	SS
CRESYLIC ACID	<0.001	0.001	MG/L	10/02/91	SS
TOLUENE	<0.02	0.02	MG/L	10/02/91	SS
CARBON DISULFIDE	<0.02	0.02	MG/L	10/02/91	SS



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
ISOBUTANOL	<10	10	MG/L	10/02/91	SS
2-ETHOXYETHANOL	<10	10	MG/L	10/02/91	SS
2-NITROPROPANE	<0.02	0.02	MG/L	10/02/91	SS
Surrogates					
4-BROMOFLUOROBENZENE	111	Min: 86	Max: 115		
1,2-DICHLOROETHANE-d4	85	Min: 76	Max: 114		
TOLUENE-d8	101	Min: 88	Max: 110		
TCCLP METALS					
ARSENIC	<0.005	0.005	MG/L		JB
BARIUM	1.11	0.50	MG/L		JB
CADMIUM	<0.003	0.003	MG/L		JB
CHROMIUM	<0.02	0.02	MG/L		JB
LEAD	<0.10	0.10	MG/L		JB
MERCURY	<0.0002	0.0002	MG/L		JB
SELENIUM	<0.005	0.005	MG/L		JB
SILVER	<0.010	0.010	MG/L		JB
TCCLP ORGANICS ENRON LIST					
BENZENE	<0.02	0.02	MG/L	10/07/91	SS
CARBON TETRACHLORIDE	<0.02	0.02	MG/L	10/07/91	SS
CHLOROBENZENE	<0.02	0.02	MG/L	10/07/91	SS
CHLOROFORM	<0.02	0.02	MG/L	10/07/91	SS
1,2-DICHLOROETHANE	<0.02	0.02	MG/L	10/07/91	SS
1,1-DICHLOROETHYLENE	<0.02	0.02	MG/L	10/07/91	SS
METHYL ETHYL KETONE	<0.02	0.02	MG/L	10/07/91	SS
TETRACHLOROETHYLENE	<0.02	0.02	MG/L	10/07/91	SS
TRICHLOROETHYLENE	<0.02	0.02	MG/L	10/07/91	SS
VINYL CHLORIDE	<0.02	0.02	MG/L	10/07/91	SS
O-CRESOL	<0.001	0.001	MG/L	10/07/91	SS



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
M-CRESOL	<0.001	0.001	MG/L	10/07/91	SS
P-CRESOL	<0.001	0.001	MG/L	10/07/91	SS
1,4-DICHLOROBENZENE	<0.001	0.001	MG/L	10/07/91	SS
2,4-DINITROTOLUENE	<0.001	0.001	MG/L	10/07/91	SS
HEXACHLOROBENZENE	<0.001	0.001	MG/L	10/07/91	SS
HEXACHLORO-1,3-BUTADIENE	<0.001	0.001	MG/L	10/07/91	SS
HEXACHLOROETHANE	<0.001	0.001	MG/L	10/07/91	SS
NITROBENZENE	<0.001	0.001	MG/L	10/07/91	SS
PENTACHLOROPHENOL	<0.001	0.001	MG/L	10/07/91	SS
PYRIDINE	<0.001	0.001	MG/L	10/07/91	SS
2,4,5-TRICHLOROPHENOL	<0.001	0.001	MG/L	10/07/91	SS
2,4,6-TRICHLOROPHENOL	<0.001	0.001	MG/L	10/07/91	SS
Surrogates					
NITROBENZENE-d5	60	Min: 35	Max: 114		
2-FLUOROBIPHENYL	53	Min: 43	Max: 116		
TERPHENYL-d14	73	Min: 33	Max: 141		
PHENOL-d5	31	Min: 10	Max: 94		
2-FLUOROPHENOL	31	Min: 21	Max: 100		
TOTAL REC PET HYDROCARBONS	160	5.0	MG/KG	10/02/91	PV

Collected: 09/24/91

Sample: 02A BH-1 2.9-3.1

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
BENZENE, TOLUENE, EBENZ, XYLE		0.1			
BENZENE	<0.1	0.1	MG/KG	10/05/91	DD
TOLUENE	<0.1	0.1	MG/KG	10/05/91	DD



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Test Description	Result	Limit	Units	Analyzed	By
ETHYL BENZENE	<0.1	0.1	MG/KG	10/05/91	DD
XYLENES	<0.1	0.1	MG/KG	10/05/91	DD
TCLP F SERIES ENRON LIST					
METHYLENE CHLORIDE	<0.02	0.02	MG/L	10/02/91	SS
1,1,1-TRICHLOROETHANE	<0.02	0.02	MG/L	10/02/91	SS
TRICHLORO-TRIFLUOROETHANE	<0.02	0.02	MG/L	10/02/91	SS
ORTHO-DICHLOROBENZENE	<0.02	0.02	MG/L	10/02/91	SS
TRICHLOROFLUOROMETHANE	<0.02	0.02	MG/L	10/02/91	SS
XYLENE	<0.02	0.02	MG/L	10/02/91	SS
ACETONE	<10	10	MG/L	10/02/91	SS
ETHYL ACETATE	<10	10	MG/L	10/02/91	SS
ETHYL BENZENE	<0.02	0.02	MG/L	10/02/91	SS
ETHYL ETHER	<0.02	0.02	MG/L	10/02/91	SS
METHYL ISOBUTYL KETONE	<0.02	0.02	MG/L	10/02/91	SS
n-BUTYL ALCOHOL	<10	10	MG/L	10/02/91	SS
CYCLOHEXANONE	<0.02	0.02	MG/L	10/02/91	SS
METHANOL	<10	10	MG/L	10/02/91	SS
CRESYLIC ACID	<0.001	0.001	MG/L	10/02/91	SS
TOLUENE	<0.02	0.02	MG/L	10/02/91	SS
CARBON DISULFIDE	<0.02	0.02	MG/L	10/02/91	SS
ISOBUTANOL	<10	10	MG/L	10/02/91	SS
2-ETHOXYETHANOL	<10	10	MG/L	10/02/91	SS
2-NITROPROPANE	<0.02	0.02	MG/L	10/02/91	SS
Surrogates					
4-BROMOFLUOROBENZENE	88	Min: 85	Max: 121		
1,2-DICHLOROETHANE-d4	111	Min: 77	Max: 120		
TOLUENE-d8	103	Min: 86	Max: 119		
TCLP METALS					



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
ARSENIC	<0.005	0.005	MG/L		JB
BARIUM	7.89	0.50	MG/L		JB
CADMIUM	<0.003	0.003	MG/L		JB
CHROMIUM	<0.02	0.02	MG/L		JB
LEAD	<0.10	0.10	MG/L		JB
MERCURY	<0.0002	0.0002	MG/L		JB
SELENIUM	<0.005	0.005	MG/L		JB
SILVER	<0.010	0.010	MG/L		JB
TCLP ORGANICS ENRON LIST					
BENZENE	<0.02	0.02	MG/L	10/07/91	SS
CARBON TETRACHLORIDE	<0.02	0.02	MG/L	10/07/91	SS
CHLOROBENZENE	<0.02	0.02	MG/L	10/07/91	SS
CHLOROFORM	<0.02	0.02	MG/L	10/07/91	SS
1,2-DICHLOROETHANE	<0.02	0.02	MG/L	10/07/91	SS
1,1-DICHLOROETHYLENE	<0.02	0.02	MG/L	10/07/91	SS
METHYL ETHYL KETONE	<0.02	0.02	MG/L	10/07/91	SS
TETRACHLOROETHYLENE	<0.02	0.02	MG/L	10/07/91	SS
TRICHLOROETHYLENE	<0.02	0.02	MG/L	10/07/91	SS
VINYL CHLORIDE	<0.02	0.02	MG/L	10/07/91	SS
O-CRESOL	<0.001	0.001	MG/L	10/07/91	SS
M-CRESOL	<0.001	0.001	MG/L	10/07/91	SS
P-CRESOL	<0.001	0.001	MG/L	10/07/91	SS
1,4-DICHLOROBENZENE	<0.001	0.001	MG/L	10/07/91	SS
2,4-DINITROTOLUENE	<0.001	0.001	MG/L	10/07/91	SS
HEXACHLOROBENZENE	<0.001	0.001	MG/L	10/07/91	SS
HEXACHLORO-1,3-BUTADIENE	<0.001	0.001	MG/L	10/07/91	SS
HEXACHLOROETHANE	<0.001	0.001	MG/L	10/07/91	SS
NITROBENZENE	<0.001	0.001	MG/L	10/07/91	SS



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
PENTACHLOROPHENOL	<0.001	0.001	MG/L	10/07/91	SS
PYRIDINE	<0.001	0.001	MG/L	10/07/91	SS
2,4,5-TRICHLOROPHENOL	<0.001	0.001	MG/L	10/07/91	SS
2,4,6-TRICHLOROPHENOL	<0.001	0.001	MG/L	10/07/91	SS
Surrogates					
NITROBENZENE-d5	79	Min: 35	Max: 114		
2-FLUOROBIPHENYL	82	Min: 43	Max: 116		
TERPHENYL-d14	88	Min: 33	Max: 141		
PHENOL-d5	69	Min: 10	Max: 94		
2-FLUOROPHENOL	76	Min: 21	Max: 100		
TOTAL REC PET HYDROCARBONS	<5.0	5.0	MG/KG	10/02/91	PV

Sample: 03A BH-1 10.1-10.5

Collected: 09/24/91

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
BENZENE, TOLUENE, EBENZ, XYLE		0.1			
BENZENE	<0.1	0.1	MG/KG	10/05/91	DD
TOLUENE	<0.1	0.1	MG/KG	10/05/91	DD
ETHYL BENZENE	<0.1	0.1	MG/KG	10/05/91	DD
XYLENES	<0.1	0.1	MG/KG	10/05/91	DD
TCLP F SERIES ENRON LIST					
METHYLENE CHLORIDE	<0.02	0.02	MG/L	10/02/91	SS
1,1,1-TRICHLOROETHANE	<0.02	0.02	MG/L	10/02/91	SS
TRICHLORO-TRIFLUOROETHANE	<0.02	0.02	MG/L	10/02/91	SS
ORTHO-DICHLOROBENZENE	<0.02	0.02	MG/L	10/02/91	SS
TRICHLOROFLUOROMETHANE	<0.02	0.02	MG/L	10/02/91	SS



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
XYLENE	<0.02	0.02	MG/L	10/02/91	SS
ACETONE	<10	10	MG/L	10/02/91	SS
ETHYL ACETATE	<10	10	MG/L	10/02/91	SS
ETHYL BENZENE	<0.02	0.02	MG/L	10/02/91	SS
ETHYL ETHER	<0.02	0.02	MG/L	10/02/91	SS
METHYL ISOBUTYL KETONE	<0.02	0.02	MG/L	10/02/91	SS
n-BUTYL ALCOHOL	<10	10	MG/L	10/02/91	SS
CYCLOHEXANONE	<0.02	0.02	MG/L	10/02/91	SS
METHANOL	<10	10	MG/L	10/02/91	SS
CRESYLIC ACID	<0.001	0.001	MG/L	10/02/91	SS
TOLUENE	<0.02	0.02	MG/L	10/02/91	SS
CARBON DISULFIDE	<0.02	0.02	MG/L	10/02/91	SS
ISOBUTANOL	<10	10	MG/L	10/02/91	SS
2-ETHOXYETHANOL	<10	10	MG/L	10/02/91	SS
2-NITROPROPANE	<0.02	0.02	MG/L	10/02/91	SS
Surrogates					
4-BROMOFLUOROBENZENE	85	Min: 85	Max: 121		
1,2-DICHLOROETHANE-d4	116	Min: 77	Max: 120		
TOLUENE-d8	101	Min: 86	Max: 119		
TCLP METALS					
ARSENIC	0.014	0.005	MG/L		JB
BARIUM	2.85	0.50	MG/L		JB
CADMIUM	<0.003	0.003	MG/L		JB
CHROMIUM	<0.02	0.02	MG/L		JB
LEAD	<0.10	0.10	MG/L		JB
MERCURY	<0.0002	0.0002	MG/L		JB
SELENIUM	<0.005	0.005	MG/L		JB
SILVER	<0.010	0.010	MG/L		JB



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Test Description	Result	Limit	Units	Analyzed	By
TCLP ORGANICS ENRON LIST					
BENZENE	<0.02	0.02	MG/L	10/02/91	SS
CARBON TETRACHLORIDE	<0.02	0.02	MG/L	10/02/91	SS
CHLOROBENZENE	<0.02	0.02	MG/L	10/02/91	SS
CHLOROFORM	<0.02	0.02	MG/L	10/02/91	SS
1,2-DICHLOROETHANE	<0.02	0.02	MG/L	10/02/91	SS
1,1-DICHLOROETHYLENE	<0.02	0.02	MG/L	10/02/91	SS
METHYL ETHYL KETONE	<0.02	0.02	MG/L	10/02/91	SS
TETRACHLOROETHYLENE	<0.02	0.02	MG/L	10/02/91	SS
TRICHLOROETHYLENE	<0.02	0.02	MG/L	10/02/91	SS
VINYL CHLORIDE	<0.02	0.02	MG/L	10/02/91	SS
O-CRESOL	<0.001	0.001	MG/L	10/02/91	SS
M-CRESOL	<0.001	0.001	MG/L	10/02/91	SS
P-CRESOL	<0.001	0.001	MG/L	10/02/91	SS
1,4-DICHLOROBENZENE	<0.001	0.001	MG/L	10/02/91	SS
2,4-DINITROTOLUENE	<0.001	0.001	MG/L	10/02/91	SS
HEXACHLOROBENZENE	<0.001	0.001	MG/L	10/02/91	SS
HEXACHLORO-1,3-BUTADIENE	<0.001	0.001	MG/L	10/02/91	SS
HEXACHLOROETHANE	<0.001	0.001	MG/L	10/02/91	SS
NITROBENZENE	<0.001	0.001	MG/L	10/02/91	SS
PENTACHLOROPHENOL	<0.001	0.001	MG/L	10/02/91	SS
PYRIDINE	<0.001	0.001	MG/L	10/02/91	SS
2,4,5-TRICHLOROPHENOL	<0.001	0.001	MG/L	10/02/91	SS
2,4,6-TRICHLOROPHENOL	<0.001	0.001	MG/L	10/02/91	SS
Surrogates					
NITROBENZENE-d5	86	Min: 35	Max: 114		
2-FLUOROBIPHENYL	90	Min: 43	Max: 116		
TERPHENYL-d14	64	Min: 33	Max: 141		
PHENOL-d5	75	Min: 10	Max: 94		
2-FLUOROPHENOL	81	Min: 21	Max: 100		



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Test Description
TOTAL REC PET HYDROCARBONS

Units Analyzed By
MG/KG 10/02/91 PV

Result Limit
<5.0 5.0

Sample: 04A BH-1 21.2-21.4

Collected: 09/24/91

Test Description
BENZENE, TOLUENE, EBENZ, XYLE
BENZENE
TOLUENE
ETHYL BENZENE
XYLENES
TCCLP F SERIES ENRON LIST
METHYLENE CHLORIDE
1,1,1-TRICHLOROETHANE
TRICHLORO-TRIFLUOROETHANE
ORTHO-DICHLOROBENZENE
TRICHLOROFLUOROMETHANE
XYLENE
ACETONE
ETHYL ACETATE
ETHYL BENZENE
ETHYL ETHER
METHYL ISOBUTYL KETONE
n-BUTYL ALCOHOL
CYCLOHEXANONE
METHANOL
CRESYLIC ACID
TOLUENE
CARBON DISULFIDE

Result Limit
<0.1 0.1
<0.1 0.1
<0.1 0.1
<0.1 0.1
<0.02 0.02
<0.02 0.02
<0.02 0.02
<0.02 0.02
<0.02 0.02
<10 10
<10 10
<0.02 0.02
<0.02 0.02
<0.02 0.02
<10 10
<0.02 0.02
<10 10
<0.001 0.001
<0.02 0.02
<0.02 0.02
Units Analyzed By
MG/KG 10/05/91 DD
MG/KG 10/05/91 DD
MG/KG 10/05/91 DD
MG/KG 10/05/91 DD
MG/L 10/02/91 SS
MG/L 10/02/91 SS
MG/L 10/02/91 SS
MG/L 10/02/91 SS
MG/L 10/02/91 SS
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MG/L 10/02/91 SS
MG/L 10/02/91 SS



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Test Description	Result	Limit	Units	Analyzed	By
ISOBUTANOL	<10	10	MG/L	10/02/91	SS
2-ETHOXYETHANOL	<10	10	MG/L	10/02/91	SS
2-NITROPROPANE	<0.02	0.02	MG/L	10/02/91	SS
Surrogates					
4-BROMOFLUOROBENZENE	87	Min: 85	Max: 121		
1,2-DICHLOROETHANE-d4	120	Min: 77	Max: 120		
TOLUENE-d8	104	Min: 86	Max: 119		
TCLP METALS					
ARSENIC	0.009	0.005	MG/L		JB
BARIUM	1.04	0.50	MG/L		JB
CADMIUM	<0.003	0.003	MG/L		JB
CHROMIUM	<0.02	0.02	MG/L		JB
LEAD	<0.10	0.10	MG/L		JB
MERCURY	<0.0002	0.0002	MG/L		JB
SELENIUM	<0.005	0.005	MG/L		JB
SILVER	<0.010	0.010	MG/L		JB
TCLP ORGANICS ENRON LIST					
BENZENE	<0.02	0.02	MG/L	10/02/91	SS
CARBON TETRACHLORIDE	<0.02	0.02	MG/L	10/02/91	SS
CHLOROBENZENE	<0.02	0.02	MG/L	10/02/91	SS
CHLOROFORM	<0.02	0.02	MG/L	10/02/91	SS
1,2-DICHLOROETHANE	<0.02	0.02	MG/L	10/02/91	SS
1,1-DICHLOROETHYLENE	<0.02	0.02	MG/L	10/02/91	SS
METHYL ETHYL KETONE	<0.02	0.02	MG/L	10/02/91	SS
TETRACHLOROETHYLENE	<0.02	0.02	MG/L	10/02/91	SS
TRICHLOROETHYLENE	<0.02	0.02	MG/L	10/02/91	SS
VINYL CHLORIDE	<0.02	0.02	MG/L	10/02/91	SS
O-CRESOL	<0.001	0.001	MG/L	10/02/91	SS



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
M-CRESOL	<0.001	0.001	MG/L	10/02/91	SS
P-CRESOL	<0.001	0.001	MG/L	10/02/91	SS
1,4-DICHLOROBENZENE	<0.001	0.001	MG/L	10/02/91	SS
2,4-DINITROTOLUENE	<0.001	0.001	MG/L	10/02/91	SS
HEXACHLOROBENZENE	<0.001	0.001	MG/L	10/02/91	SS
HEXACHLORO-1,3-BUTADIENE	<0.001	0.001	MG/L	10/02/91	SS
HEXACHLOROETHANE	<0.001	0.001	MG/L	10/02/91	SS
NITROBENZENE	<0.001	0.001	MG/L	10/02/91	SS
PENTACHLOROPHENOL	<0.001	0.001	MG/L	10/02/91	SS
PYRIDINE	<0.001	0.001	MG/L	10/02/91	SS
2,4,5-TRICHLOROPHENOL	<0.001	0.001	MG/L	10/02/91	SS
2,4,6-TRICHLOROPHENOL	<0.001	0.001	MG/L	10/02/91	SS
Surrogates					
NITROBENZENE-d5	79	Min: 35	Max: 114		
2-FLUOROBIPHENYL	70	Min: 43	Max: 116		
TERPHENYL-d14	79	Min: 33	Max: 141		
PHENOL-d5	64	Min: 10	Max: 94		
2-FLUOROPHENOL	69	Min: 21	Max: 100		
TOTAL REC PET HYDROCARBONS	8.0		MG/KG	10/02/91	PV

Sample: 05A BH-1 31.2-31.4

Collected: 09/24/91

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
BENZENE, TOLUENE, EBENZ, XYLE		0.1			
BENZENE	<0.1	0.1	MG/KG	10/05/91	DD
TOLUENE	<0.1	0.1	MG/KG	10/05/91	DD



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
ETHYL BENZENE	<0.1	0.1	MG/KG	10/05/91	DD
XYLENES	<0.1	0.1	MG/KG	10/05/91	DD
TCLP F SERIES ENRON LIST					
METHYLENE CHLORIDE	<0.02	0.02	MG/L	10/02/91	SS
1,1,1-TRICHLOROETHANE	<0.02	0.02	MG/L	10/02/91	SS
TRICHLORO-TRIFLUOROETHANE	<0.02	0.02	MG/L	10/02/91	SS
ORTHO-DICHLOROBENZENE	<0.02	0.02	MG/L	10/02/91	SS
TRICHLOROFLUOROMETHANE	<0.02	0.02	MG/L	10/02/91	SS
XYLENE	<0.02	0.02	MG/L	10/02/91	SS
ACETONE	<10	10	MG/L	10/02/91	SS
ETHYL ACETATE	<10	10	MG/L	10/02/91	SS
ETHYL BENZENE	<0.02	0.02	MG/L	10/02/91	SS
ETHYL ETHER	<0.02	0.02	MG/L	10/02/91	SS
METHYL ISOBUTYL KETONE	<0.02	0.02	MG/L	10/02/91	SS
n-BUTYL ALCOHOL	<10	10	MG/L	10/02/91	SS
CYCLOHEXANONE	<0.02	0.02	MG/L	10/02/91	SS
METHANOL	<10	10	MG/L	10/02/91	SS
CRESYLIC ACID	<0.001	0.001	MG/L	10/02/91	SS
TOLUENE	<0.02	0.02	MG/L	10/02/91	SS
CARBON DISULFIDE	<0.02	0.02	MG/L	10/02/91	SS
ISOBUTANOL	<10	10	MG/L	10/02/91	SS
2-ETHOXYETHANOL	<10	10	MG/L	10/02/91	SS
2-NITROPROPANE	<0.02	0.02	MG/L	10/02/91	SS
Surrogates					
4-BROMOFLUOROBENZENE	90	Min: 85	Max: 121		
1,2-DICHLOROETHANE-d4	123 Q	Min: 77	Max: 120		
TOLUENE-d8	106	Min: 86	Max: 119		
TCLP METALS					



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Test Description

ARSENIC
BARIUM
CADMIUM
CHROMIUM
LEAD
MERCURY
SELENIUM
SILVER
TCLP ORGANICS ENRON LIST
BENZENE
CARBON TETRACHLORIDE
CHLOROBENZENE
CHLOROFORM
1,2-DICHLOROETHANE
1,1-DICHLOROETHYLENE
METHYL ETHYL KETONE
TETRACHLOROETHYLENE
TRICHLOROETHYLENE
VINYL CHLORIDE
O-CRESOL
M-CRESOL
P-CRESOL
1,4-DICHLOROBENZENE
2,4-DINITROTOLUENE
HEXACHLOROBENZENE
HEXACHLORO-1,3-BUTADIENE
HEXACHLOROETHANE
NITROBENZENE

<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
0.024	0.005	MG/L		JB
<0.50	0.50	MG/L		JB
<0.003	0.003	MG/L		JB
<0.02	0.02	MG/L		JB
<0.10	0.10	MG/L		JB
0.0002	0.0002	MG/L		JB
<0.005	0.005	MG/L		JB
<0.010	0.010	MG/L		JB
<0.02	0.02	MG/L	10/02/91	SS
<0.02	0.02	MG/L	10/02/91	SS
<0.02	0.02	MG/L	10/02/91	SS
<0.02	0.02	MG/L	10/02/91	SS
<0.02	0.02	MG/L	10/02/91	SS
<0.02	0.02	MG/L	10/02/91	SS
<0.02	0.02	MG/L	10/02/91	SS
<0.02	0.02	MG/L	10/02/91	SS
<0.02	0.02	MG/L	10/02/91	SS
<0.02	0.02	MG/L	10/02/91	SS
<0.02	0.02	MG/L	10/02/91	SS
<0.001	0.001	MG/L	10/02/91	SS
<0.001	0.001	MG/L	10/02/91	SS
<0.001	0.001	MG/L	10/02/91	SS
<0.001	0.001	MG/L	10/02/91	SS
<0.001	0.001	MG/L	10/02/91	SS
<0.001	0.001	MG/L	10/02/91	SS
<0.001	0.001	MG/L	10/02/91	SS
<0.001	0.001	MG/L	10/02/91	SS
<0.001	0.001	MG/L	10/02/91	SS



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
PENTACHLOROPHENOL	<0.001	0.001	MG/L	10/02/91	SS
PYRIDINE	<0.001	0.001	MG/L	10/02/91	SS
2,4,5-TRICHLOROPHENOL	<0.001	0.001	MG/L	10/02/91	SS
2,4,6-TRICHLOROPHENOL	<0.001	0.001	MG/L	10/02/91	SS
Surrogates					
NITROBENZENE-d5	92	Min: 35	Max: 114		
2-FLUOROBIPHENYL	82	Min: 43	Max: 116		
TERPHENYL-d14	104	Min: 33	Max: 141		
PHENOL-d5	81	Min: 10	Max: 94		
2-FLUOROPHENOL	83	Min: 21	Max: 100		
TOTAL REC PET HYDROCARBONS	<5.0	5.0	MG/KG	10/02/91	PV



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REGULAR TEST RESULTS BY TEST

TOTAL REC PET HYDROCARBONS
Method: EPA 418.1

Minimum: 5.0 Maximum: 100

<u>Sample</u>	<u>Sample Description</u>	<u>Result</u>	<u>Units</u>	<u>Extracted</u>	<u>Analyzed</u>	<u>By</u>
01A	BH-1 2.3-2.5	160	MG/KG	10/02/91	10/02/91	PV
02A	BH-1 2.9-3.1	<5.0	MG/KG	10/02/91	10/02/91	PV
03A	BH-1 10.1-10.5	<5.0	MG/KG	10/02/91	10/02/91	PV
04A	BH-1 21.2-21.4	8.0	MG/KG	10/02/91	10/02/91	PV
05A	BH-1 31.2-31.4	<5.0	MG/KG	10/02/91	10/02/91	PV



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Independent Laboratories, Inc.

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TEST METHODOLOGIES

TCLP METALS: USEPA 200 SERIES METHODOLOGY

TCLP EXTRACTION: USEPA METHOD # 1311

BENZENE, TOLUENE, ETHYLBENZENE, XYLENES: USEPA METHOD # 602/8020
USEPA METHOD # 418.1





WORK ORDER
8384

7300 Jefferson NE • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7259

TRANSWESTERN PIPELINE COMPANY

CHAIN OF CUSTODY

District: Hobbs 5160

Date: 9-25-91

Sample Location
Valve or Receiver No.

Vol. Collect.
During Flush

Sampler

SAMPLE ID NUMBER	SOLVENT USED	SAMPLE ICED	ANALYSES REQUESTED
BH-1 2.3-2.5	—	yes	TRPH / BTX / TCLP-O-M-F
BH-1 2.9-3.1	—	yes	TRPH / BTX / TCLP-O-M-F
BH-1 10.1-10.5	—	yes	TRPH / BTX / TCLP-O-M-F
BH-1 21.2-21.4	—	yes	TRPH / BTX / TCLP-O-M-F
BH-1 31.2-31.4	—	yes	TRPH / BTX / TCLP-O-M-F

Relinquished By Michael J. Keene Date 9-25-91
Relinquished To Federal Express Date 9-25-91

Relinquished By _____ Date _____
Relinquished To _____ Date _____

Relinquished By _____ Date _____
Relinquished To _____ Date _____

Relinquished By _____ Date _____
Relinquished To _____ Date _____

Laboratory: ASSAULT LABS
Received: [Signature] Date 9/26/91

Approx. 40oz. soil
Standard Turnaround

Assaigai Analytical Labs
7300 Jefferson NE
Albuquerque, NM 87109

Attn: SYED RIZVI
Phone: (505) 345-8964

ENRON/TRANSWESTERN PIPELINE
HOBBS PLANT
2626 WEST MARLAND
HOBBS, NM 88240
Attn: FRANK HERNANDEZ/MIKE KNEESE
Invoice Number: 912076

Order #: 91-09-287
Date: 09/30/91 10:42
Work ID: DISTRICT:HOBBS 5160
Date Received: 09/25/91
Date Completed: 09/30/91

8368

SAMPLE IDENTIFICATION

Sample Number	Sample Description	Sample Number	Sample Description
01	BH-1 48.8-49.0		

QUESTIONS ABOUT THIS REPORT SHOULD BE ADDRESSED TO:
LABORATORY OPERATIONS MANAGER/ASSAIGAI ANALYTICAL
7300 JEFFERSON N.E., ALBUQUERQUE, N.M. 87109

Syed Rizvi
Certified By
SYED N. RIZVI



Order # 91-09-287
09/30/91 10:42

Assaigai Analytical Labs

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Sample: 01A BH-1 48.8-49.0

Collected: 09/25/91

TEST RESULTS BY SAMPLE

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
BENZENE, TOLUENE, EBENZ, XYLE					
BENZENE	<0.1	0.1	MG/KG	09/26/91	KP
TOLUENE	<0.1	0.1	MG/KG	09/26/91	KP
ETHYL BENZENE	<0.1	0.1	MG/KG	09/26/91	KP
XYLENES	<0.1	0.1	MG/KG	09/26/91	KP
TCLP F SERIES ENRON LIST					
METHYLENE CHLORIDE	<0.02	0.02	MG/L	09/26/91	SS
1,1,1-TRICHLOROETHANE	<0.02	0.02	MG/L	09/26/91	SS
TRICHLORO-TRIFLUOROETHANE	<0.02	0.02	MG/L	09/26/91	SS
ORTHO-DICHLOROBENZENE	<0.02	0.02	MG/L	09/26/91	SS
TRICHLOROFLUOROMETHANE	<0.02	0.02	MG/L	09/26/91	SS
XYLENE	<0.02	0.02	MG/L	09/26/91	SS
ACETONE	<10	10	MG/L	09/26/91	SS
ETHYL ACETATE	<10	10	MG/L	09/26/91	SS
ETHYL BENZENE	<0.02	0.02	MG/L	09/26/91	SS
ETHYL ETHER	<0.02	0.02	MG/L	09/26/91	SS
METHYL ISOBUTYL KETONE	<0.02	0.02	MG/L	09/26/91	SS
n-BUTYL ALCOHOL	<10	10	MG/L	09/26/91	SS
CYCLOHEXANONE	<0.02	0.02	MG/L	09/26/91	SS
METHANOL	<10	10	MG/L	09/26/91	SS
CRESYLIC ACID	<0.010	0.010	MG/L	09/26/91	SS
TOLUENE	<0.020	0.020	MG/L	09/26/91	SS
CARBON DISULFIDE	<0.02	0.02	MG/L	09/26/91	SS



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
ISOBUTANOL	<10	10	MG/L	09/26/91	SS
2-ETHOXYETHANOL	<10	10	MG/L	09/26/91	SS
2-NITROPROPANE	<0.02	0.02	MG/L	09/26/91	SS
Surrogates					
4-BROMOFLUOROBENZENE	113	Min: 86	Max: 115		
1,2-DICHLOROETHANE-d4	103	Min: 76	Max: 114		
TOLUENE-d8	106	Min: 88	Max: 110		
TCLP METALS					
ARSENIC	<0.005	0.005	MG/L		JB
BARIUM	<0.50	0.50	MG/L		JB
CADMIUM	<0.003	0.003	MG/L		JB
CHROMIUM	<0.02	0.02	MG/L		JB
LEAD	<0.10	0.10	MG/L		JB
MERCURY	<0.0002	0.0002	MG/L		JB
SELENIUM	<0.005	0.005	MG/L		JB
SILVER	<0.010	0.010	MG/L		JB
TCLP ORGANICS ENRON LIST					
BENZENE	<0.02	0.02	MG/L	09/28/91	SS
CARBON TETRACHLORIDE	<0.02	0.02	MG/L	09/28/91	SS
CHLOROBENZENE	<0.02	0.02	MG/L	09/28/91	SS
CHLOROFORM	<0.02	0.02	MG/L	09/28/91	SS
1,2-DICHLOROETHANE	<0.02	0.02	MG/L	09/28/91	SS
1,1-DICHLOROETHYLENE	<0.02	0.02	MG/L	09/28/91	SS
METHYL ETHYL KETONE	<0.02	0.02	MG/L	09/28/91	SS
TETRACHLOROETHYLENE	<0.02	0.02	MG/L	09/28/91	SS
TRICHLOROETHYLENE	<0.02	0.02	MG/L	09/28/91	SS
VINYL CHLORIDE	<0.02	0.02	MG/L	09/28/91	SS
O-CRESOL	<0.005	0.005	MG/L	09/28/91	SS



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
M-CRESOL	<0.005	0.005	MG/L	09/28/91	SS
P-CRESOL	<0.005	0.005	MG/L	09/28/91	SS
1,4-DICHLOROBENZENE	<0.005	0.005	MG/L	09/28/91	SS
2,4-DINITROTOLUENE	<0.005	0.005	MG/L	09/28/91	SS
HEXACHLOROBENZENE	<0.005	0.005	MG/L	09/28/91	SS
HEXACHLORO-1,3-BUTADIENE	<0.005	0.005	MG/L	09/28/91	SS
HEXACHLOROETHANE	<0.005	0.005	MG/L	09/28/91	SS
NITROBENZENE	<0.005	0.005	MG/L	09/28/91	SS
PENTACHLOROPHENOL	<0.005	0.005	MG/L	09/28/91	SS
PYRIDINE	<0.005	0.005	MG/L	09/28/91	SS
2,4,5-TRICHLOROPHENOL	<0.005	0.005	MG/L	09/28/91	SS
2,4,6-TRICHLOROPHENOL	<0.005	0.005	MG/L	09/28/91	SS
Surrogates					
NITROBENZENE-d5	83	Min: 35	Max: 114		
2-FLUOROBIPHENYL	70	Min: 43	Max: 116		
TERPHENYL-d14	73	Min: 33	Max: 141		
PHENOL-d5	74	Min: 10	Max: 94		
2-FLUOROPHENOL	84	Min: 21	Max: 100		
TOTAL REC PET HYDROCARBONS	<5.0	5.0	MG/KG	09/26/91	PV



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REGULAR TEST RESULTS BY TEST

TOTAL REC PET HYDROCARBONS
Method: EPA 418.1

Minimum: 5.0 Maximum: 100

Sample Sample Description
01A BH-1 48.8-49.0

Result
<5.0

Units Extracted Analyzed By
MG/KG 09/26/91 09/26/91 PV



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TEST METHODOLOGIES

TCLP METALS: USEPA 200 SERIES METHODOLOGY

TCLP EXTRACTION: USEPA METHOD # 1311

BENZENE, TOLUENE, ETHYLBENZENE, XYLENES: USEPA METHOD # 602/8020

USEPA METHOD # 418.1



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TRANSWESTERN PIPELINE COMPANY

CHAIN OF CUSTODY

District: Hobbs 5160

Date: 9-25-91

Sample Location
Valve or Receiver No.

Vol. Collect.
During Flush

Sampler

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

<u>SAMPLE ID NUMBER</u>	<u>SOLVENT USED</u>	<u>SAMPLE ICED</u>	<u>ANALYSES REQUESTED</u>
<u>BH-1 48.8-49.0</u>	<u>—</u>	<u>yes</u>	<u>TRPH / BTX / TCLP - O-M-F</u>

Relinquished By Michael A. Keese Date 9-25-91
 Relinquished To Metric Corp. Date 9-25-91

Relinquished By _____ Date _____
 Relinquished To _____ Date _____

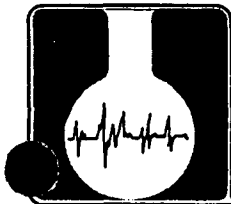
Relinquished By _____ Date _____
 Relinquished To _____ Date _____

Relinquished By _____ Date _____
 Relinquished By _____ Date _____

Laboratory: ASSAISI LABS Date 9/25/91
 Received: [Signature]

8oz. Soil

24hr. Turnaround



ASSAIGAI ANALYTICAL LABORATORIES

WORK ORDER
8368

☐ HAZARDOUS ☐ NON-HAZARDOUS	DATE RECEIVED <u>9/25</u>	ESTIMATED COST
CUSTOMER P.O. NUMBER	TIME RECEIVED <u>5:07 PM</u>	DUE DATE <u>9/26</u>
ACCOUNT INFORMATION		
CUSTOMER'S NAME <u>ENRON</u>	CONTACT <u>Mike Keene</u>	
ADDRESS	PHONE NUMBER	
CITY / STATE / ZIP <u>Hobbs</u>		
PARTY RESPONSIBLE FOR PAYMENT IF OTHER THAN ABOVE		ACCOUNT STATUS
NAME	CONTACT	PAYMENT REC'D. ☒
ADDRESS	PHONE NUMBER	OPEN ACCOUNT ☒
CITY / STATE / ZIP		CASH ☐
		CHECK NUMBER ☐
SPECIAL BILLING INSTRUCTIONS		
SAMPLE INFORMATION		
TYPE OF SAMPLE	NO. OF SAMPLES	*TURN AROUND TIME
☐ WATER	<u>1</u>	☐ REGULAR (10 WKG DAYS)
☒ SOIL		☐ RUSH (3 DAYS)
☐ OIL	NO. OF CONTAINERS <u>1</u>	☒ EMERGENCY (STAT)
☐ SLUDGE		
☐ OTHER		
*(SUBJECT TO WORK LOG)		
SAMPLE DELIVERED BY <u>Dropped Off</u>		DATE <u>9/25</u>
ANALYSIS REQUEST		
WORK DESCRIPTION <u>TRPH, BTEX, TCLP-O, Z, F, Z, E</u>		
SPECIAL INSTRUCTIONS		
BILLING: ☐ PICKUP ☐ MAIL		
LOGGED IN BY <u>[Signature]</u>		

TRANSWESTERN PIPELINE/ENRON
CLIENT LOG-IN PROBLEMS/INCONSISTENCIES

DATE RECEIVED: 9/25 WO #: 8368

DISTRICT: Hobbs Sild CONTACT: Mike Keene

PROBLEMS/INCONSISTENCIES ON CHAIN OF CUSTODY(COC):

NO CHAIN OF CUSTODY INCLUDED WITH SAMPLES..... ☐

DISTRICT LEFT BLANK..... ☐

DATE SAMPLED LEFT BLANK..... ☐

NO ANALYTES REQUESTED..... ☐

ILLEGIBLE HANDWRITING..... ☐

SAMPLE SITE LEFT BLANK..... ☒

TURN AROUND TIME NOT INDICATED..... ☐

SAMPLE ID ON CONTAINER & COC INCONSISTENT..... ☐

CHAIN OF CUSTODY NOT RELINQUISHED..... ☐

SAMPLES RECEIVED DAMAGED..... ☐

SAMPLES RECEIVED UNSEALED..... ☐

COMMENTS: _____

SAMPLES LOGGED IN BY: [Signature]

Assaigai Analytical Labs
7300 Jefferson NE
Albuquerque, NM 87109

Attn: SYED RIZVI
Phone: (505)345-8964

ENRON/TRANSWESTERN PIPELINE
HOBBS PLANT
2626 WEST MARLAND
HOBBS, NM 88240
Attn: MIKE KNEESE
Invoice Number: 912274

Order #: 91-09-325
Date: 10/16/91 10:04
Work ID: HOBBS 5160
Date Received: 09/30/91
Date Completed: 10/16/91
8399

SAMPLE IDENTIFICATION

Sample Number	Sample Description	Sample Number	Sample Description
03	BH-2 0-2.7	04	BH-2 8.4-9.4
05	BH-2 35.4-35.6	06	BH-2 50.2-50.6
07	BH-3 0-1.2	08	BH-3 9.9-10.1



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10/16/91 10:04

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LABORATORY OPERATIONS MANAGER/ASSAIGAI ANALYTICAL
7300 JEFFERSON N.E., ALBUQUERQUE, N.M. 87109

Syed Rizvi

Certified By
SYED N. RIZVI



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
MAGNESIUM (TOTAL)	6.5	0.005	MG/L	10/09/91	JC
MANGANESE (TOTAL)	0.05	0.02	MG/L	10/09/91	JC
POTASSIUM (TOTAL)	13	0.05	MG/L	10/09/91	JC
SODIUM (TOTAL)	13	0.02	MG/L	10/09/91	JC
STRONTIUM (TOTAL)	<0.005	0.005	MG/L	10/09/91	JC
ZINC (TOTAL)	0.05	0.01	MG/L	10/09/91	JC

Sample: 03A BH-2 0-2.7

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
BENZENE, TOLUENE, EBENZ, XYLE					
BENZENE	<0.1	0.1	MG/KG	10/09/91	DD
TOLUENE	<0.1	0.1	MG/KG	10/09/91	DD
ETHYL BENZENE	<0.1	0.1	MG/KG	10/09/91	DD
XYLENES	<0.1	0.1	MG/KG	10/09/91	DD
TCCLP F SERIES ENRON LIST					
METHYLENE CHLORIDE	<0.02	0.02	MG/L	10/04/91	SS
1,1,1-TRICHLOROETHANE	<0.02	0.02	MG/L	10/04/91	SS
TRICHLORO-TRIFLUOROETHANE	<0.02	0.02	MG/L	10/04/91	SS
ORTHO-DICHLOROBENZENE	<0.02	0.02	MG/L	10/04/91	SS
TRICHLOROFLUOROMETHANE	<0.02	0.02	MG/L	10/04/91	SS
XYLENE	<0.02	0.02	MG/L	10/04/91	SS
ACETONE	<10	10	MG/L	10/04/91	SS
ETHYL ACETATE	<10	10	MG/L	10/04/91	SS
ETHYL BENZENE	<0.02	0.02	MG/L	10/04/91	SS
ETHYL ETHER	<0.02	0.02	MG/L	10/04/91	SS
METHYL ISOBUTYL KETONE	<0.02	0.02	MG/L	10/04/91	SS
n-BUTYL ALCOHOL	<10	10	MG/L	10/04/91	SS

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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
CYCLOHEXANONE	<0.02	0.02	MG/L	10/04/91	SS
METHANOL	<30	30	MG/L	10/04/91	SS
CRESYLIC ACID	<0.001	0.001	MG/L	10/04/91	SS
TOLUENE	<0.02	0.02	MG/L	10/04/91	SS
CARBON DISULFIDE	<0.02	0.02	MG/L	10/04/91	SS
ISOBUTANOL	<10	10	MG/L	10/04/91	SS
2-ETHOXYETHANOL	<10	10	MG/L	10/04/91	SS
2-NITROPROPANE	<0.02	0.02	MG/L	10/04/91	SS
Surrogates					
4-BROMOFLUOROBENZENE	97	Min: 86		Max: 115	
1,2-DICHLOROETHANE-d4	100	Min: 76		Max: 114	
TOLUENE-d8	104	Min: 88		Max: 110	
TCLP METALS					
ARSENIC	<0.005	0.005	MG/L		JB
BARIUM	0.64	0.50	MG/L		JB
CADMIUM	0.008	0.003	MG/L		JB
CHROMIUM	<0.02	0.02	MG/L		JB
LEAD	<0.10	0.10	MG/L		JB
MERCURY	0.0005	0.0002	MG/L		JB
SELENIUM	<0.005	0.005	MG/L		JB
SILVER	<0.010	0.010	MG/L		JB
TCLP ORGANICS ENRON LIST					
BENZENE	<0.02	0.02	MG/L	10/08/91	SS
CARBON TETRACHLORIDE	<0.02	0.02	MG/L	10/08/91	SS
CHLOROBENZENE	<0.02	0.02	MG/L	10/08/91	SS
CHLOROFORM	<0.02	0.02	MG/L	10/08/91	SS
1,2-DICHLOROETHANE	<0.02	0.02	MG/L	10/08/91	SS
1,1-DICHLOROETHYLENE	<0.02	0.02	MG/L	10/08/91	SS

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Test Description	Result	Limit	Units	Analyzed	By
METHYL ETHYL KETONE	<0.02	0.02	MG/L	10/08/91	SS
TETRACHLOROETHYLENE	<0.02	0.02	MG/L	10/08/91	SS
TRICHLOROETHYLENE	<0.02	0.02	MG/L	10/08/91	SS
VINYL CHLORIDE	<0.02	0.02	MG/L	10/08/91	SS
O-CRESOL	<0.001	0.001	MG/L	10/08/91	SS
M-CRESOL	<0.001	0.001	MG/L	10/08/91	SS
P-CRESOL	<0.001	0.001	MG/L	10/08/91	SS
1,4-DICHLOROBENZENE	<0.001	0.001	MG/L	10/08/91	SS
2,4-DINITROTOLUENE	<0.001	0.001	MG/L	10/08/91	SS
HEXACHLOROBENZENE	<0.001	0.001	MG/L	10/08/91	SS
HEXACHLORO-1,3-BUTADIENE	<0.001	0.001	MG/L	10/08/91	SS
HEXACHLOROETHANE	<0.001	0.001	MG/L	10/08/91	SS
NITROBENZENE	<0.001	0.001	MG/L	10/08/91	SS
PENTACHLOROPHENOL	<0.001	0.001	MG/L	10/08/91	SS
PYRIDINE	<0.001	0.001	MG/L	10/08/91	SS
2,4,5-TRICHLOROPHENOL	<0.001	0.001	MG/L	10/08/91	SS
2,4,6-TRICHLOROPHENOL	<0.001	0.001	MG/L	10/08/91	SS
Surrogates					
NITROBENZENE-d5	75	Min: 35	Max: 114		
2-FLUOROBIPHENYL	94	Min: 43	Max: 116		
TERPHENYL-d14	75	Min: 33	Max: 141		
PHENOL-d5	64	Min: 10	Max: 94		
2-FLUOROPHENOL	55	Min: 21	Max: 100		
TOTAL REC PET HYDROCARBONS	20	5.0	MG/KG	10/11/91	PV

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Sample: 04A BH-2 8.4-9.4

Collected:

Test Description	Result	Limit	Units	Analyzed	By
BENZENE, TOLUENE, EBENZ, XYLE		0.1			
BENZENE	<0.1	0.1	MG/KG	10/09/91	DD
TOLUENE	<0.1	0.1	MG/KG	10/09/91	DD
ETHYL BENZENE	<0.1	0.1	MG/KG	10/09/91	DD
XYLENES	<0.1	0.1	MG/KG	10/09/91	DD
TCLP F SERIES ENRON LIST					
METHYLENE CHLORIDE	<0.02	0.02	MG/L	10/04/91	SS
1,1,1-TRICHLOROETHANE	<0.02	0.02	MG/L	10/04/91	SS
TRICHLORO-TRIFLUOROETHANE	<0.02	0.02	MG/L	10/04/91	SS
ORTHO-DICHLOROBENZENE	<0.02	0.02	MG/L	10/04/91	SS
TRICHLOROFLUOROMETHANE	<0.02	0.02	MG/L	10/04/91	SS
XYLENE	<0.02	0.02	MG/L	10/04/91	SS
ACETONE	<10	10	MG/L	10/04/91	SS
ETHYL ACETATE	<10	10	MG/L	10/04/91	SS
ETHYL BENZENE	<0.02	0.02	MG/L	10/04/91	SS
ETHYL ETHER	<0.02	0.02	MG/L	10/04/91	SS
METHYL ISOBUTYL KETONE	<0.02	0.02	MG/L	10/04/91	SS
n-BUTYL ALCOHOL	<10	10	MG/L	10/04/91	SS
CYCLOHEXANONE	<0.02	0.02	MG/L	10/04/91	SS
METHANOL	<10	10	MG/L	10/04/91	SS
CRESYLIC ACID	<0.001	0.001	MG/L	10/04/91	SS
TOLUENE	<0.02	0.02	MG/L	10/04/91	SS
CARBON DISULFIDE	<0.02	0.02	MG/L	10/04/91	SS
ISOBUTANOL	<10	10	MG/L	10/04/91	SS
2-ETHOXYETHANOL	<10	10	MG/L	10/04/91	SS



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
2-NITROPROPANE	<0.02	0.02	MG/L	10/04/91	SS
Surrogates					
4-BROMOFLUOROBENZENE	99	Min: 86	Max: 115		
1,2-DICHLOROETHANE-d4	103	Min: 76	Max: 114		
TOLUENE-d8	104	Min: 88	Max: 110		
TCLP METALS					
ARSENIC	<0.005	0.005	MG/L		JB
BARIUM	<0.50	0.50	MG/L		JB
CADMIUM	<0.003	0.003	MG/L		JB
CHROMIUM	0.04	0.02	MG/L		JB
LEAD	<0.10	0.10	MG/L		JB
MERCURY	<0.0003	0.0002	MG/L		JB
SELENIUM	<0.005	0.005	MG/L		JB
SILVER	<0.010	0.010	MG/L		JB
TCLP ORGANICS ENRON LIST					
BENZENE	<0.02	0.02	MG/L	10/08/91	SS
CARBON TETRACHLORIDE	<0.02	0.02	MG/L	10/08/91	SS
CHLOROBENZENE	<0.02	0.02	MG/L	10/08/91	SS
CHLOROFORM	<0.02	0.02	MG/L	10/08/91	SS
1,2-DICHLOROETHANE	<0.02	0.02	MG/L	10/08/91	SS
1,1-DICHLOROETHYLENE	<0.02	0.02	MG/L	10/08/91	SS
METHYL ETHYL KETONE	<0.02	0.02	MG/L	10/08/91	SS
TETRACHLOROETHYLENE	<0.02	0.02	MG/L	10/08/91	SS
TRICHLOROETHYLENE	<0.02	0.02	MG/L	10/08/91	SS
VINYL CHLORIDE	<0.02	0.02	MG/L	10/08/91	SS
O-CRESOL	<0.001	0.001	MG/L	10/08/91	SS
M-CRESOL	<0.001	0.001	MG/L	10/08/91	SS
P-CRESOL	<0.001	0.001	MG/L	10/08/91	SS



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
1,4-DICHLOROBENZENE	<0.001	0.001	MG/L	10/08/91	SS
2,4-DINITROTOLUENE	<0.001	0.001	MG/L	10/08/91	SS
HEXACHLOROBENZENE	<0.001	0.001	MG/L	10/08/91	SS
HEXACHLORO-1,3-BUTADIENE	<0.001	0.001	MG/L	10/08/91	SS
HEXACHLOROETHANE	<0.001	0.001	MG/L	10/08/91	SS
NITROBENZENE	<0.001	0.001	MG/L	10/08/91	SS
PENTACHLOROPHENOL	<0.001	0.001	MG/L	10/08/91	SS
PYRIDINE	<0.001	0.001	MG/L	10/08/91	SS
2,4,5-TRICHLOROPHENOL	<0.001	0.001	MG/L	10/08/91	SS
2,4,6-TRICHLOROPHENOL	<0.001	0.001	MG/L	10/08/91	SS
Surrogates					
NITROBENZENE-d5	86	Min: 35	Max: 114		
2-FLUOROBIPHENYL	92	Min: 43	Max: 116		
TERPHENYL-d14	80	Min: 33	Max: 141		
PHENOL-d5	79	Min: 10	Max: 94		
2-FLUOROPHENOL	108 Q	Min: 21	Max: 100		
TOTAL REC PET HYDROCARBONS	8.0		MG/KG	10/11/91	PV

Sample: 05A BH-2 35.4-35.6

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
BENZENE, TOLUENE, EBENZ, XYLE		0.1			
BENZENE	<0.1	0.1	MG/KG	10/09/91	DD
TOLUENE	<0.1	0.1	MG/KG	10/09/91	DD
ETHYL BENZENE	<0.1	0.1	MG/KG	10/09/91	DD
XYLENES	<0.1	0.1	MG/KG	10/09/91	DD



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
TCLP F SERIES ENRON LIST					
METHYLENE CHLORIDE	<0.02	0.02	MG/L	10/04/91	SS
1,1,1-TRICHLOROETHANE	<0.02	0.02	MG/L	10/04/91	SS
TRICHLORO-TRIFLUOROETHANE	<0.02	0.02	MG/L	10/04/91	SS
ORTHO-DICHLOROBENZENE	<0.02	0.02	MG/L	10/04/91	SS
TRICHLOROFLUOROMETHANE	<0.02	0.02	MG/L	10/04/91	SS
XYLENE	<0.02	0.02	MG/L	10/04/91	SS
ACETONE	<10	10	MG/L	10/04/91	SS
ETHYL ACETATE	<10	10	MG/L	10/04/91	SS
ETHYL BENZENE	<0.02	0.02	MG/L	10/04/91	SS
ETHYL ETHER	<0.02	0.02	MG/L	10/04/91	SS
METHYL ISOBUTYL KETONE	<0.02	0.02	MG/L	10/04/91	SS
n-BUTYL ALCOHOL	<10	10	MG/L	10/04/91	SS
CYCLOHEXANONE	<0.02	0.02	MG/L	10/04/91	SS
METHANOL	<10	10	MG/L	10/04/91	SS
CRESYLIC ACID	<0.001	0.001	MG/L	10/04/91	SS
TOLUENE	<0.02	0.02	MG/L	10/04/91	SS
CARBON DISULFIDE	<0.02	0.02	MG/L	10/04/91	SS
ISOBUTANOL	<10	10	MG/L	10/04/91	SS
2-ETHOXYETHANOL	<10	10	MG/L	10/04/91	SS
2-NITROPROPANE	<0.02	0.02	MG/L	10/04/91	SS
Surrogates					
4-BROMOFLUOROBENZENE	112	Min: 86	Max: 115		
1,2-DICHLOROETHANE-d4	88	Min: 76	Max: 114		
TOLUENE-d8	100	Min: 88	Max: 110		
TCLP METALS					
ARSENIC	<0.005	0.005	MG/L		JB
BARIUM	1.87	0.50	MG/L		JB
CADMIUM	<0.003	0.003	MG/L		JB
CHROMIUM	<0.02	0.02	MG/L		JB

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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
LEAD	<0.10	0.10	MG/L		JB
MERCURY	0.0004	0.0002	MG/L		JB
SELENIUM	<0.005	0.005	MG/L		JB
SILVER	<0.010	0.010	MG/L		JB
TCCLP ORGANICS ENRON LIST					
BENZENE	<0.02	0.02	MG/L	10/08/91	SS
CARBON TETRACHLORIDE	<0.02	0.02	MG/L	10/08/91	SS
CHLOROBENZENE	<0.02	0.02	MG/L	10/08/91	SS
CHLOROFORM	<0.02	0.02	MG/L	10/08/91	SS
1,2-DICHLOROETHANE	<0.02	0.02	MG/L	10/08/91	SS
1,1-DICHLOROETHYLENE	<0.02	0.02	MG/L	10/08/91	SS
METHYL ETHYL KETONE	<0.02	0.02	MG/L	10/08/91	SS
TETRACHLOROETHYLENE	<0.02	0.02	MG/L	10/08/91	SS
TRICHLOROETHYLENE	<0.02	0.02	MG/L	10/08/91	SS
VINYL CHLORIDE	<0.02	0.02	MG/L	10/08/91	SS
O-CRESOL	<0.001	0.001	MG/L	10/08/91	SS
M-CRESOL	<0.001	0.001	MG/L	10/08/91	SS
P-CRESOL	<0.001	0.001	MG/L	10/08/91	SS
1,4-DICHLOROBENZENE	<0.001	0.001	MG/L	10/08/91	SS
2,4-DINITROTOLUENE	<0.001	0.001	MG/L	10/08/91	SS
HEXACHLOROBENZENE	<0.001	0.001	MG/L	10/08/91	SS
HEXACHLORO-1,3-BUTADIENE	<0.001	0.001	MG/L	10/08/91	SS
HEXACHLOROETHANE	<0.001	0.001	MG/L	10/08/91	SS
NITROBENZENE	<0.001	0.001	MG/L	10/08/91	SS
PENTACHLOROPHENOL	<0.001	0.001	MG/L	10/08/91	SS
PYRIDINE	<0.001	0.001	MG/L	10/08/91	SS
2,4,5-TRICHLOROPHENOL	<0.001	0.001	MG/L	10/08/91	SS
2,4,6-TRICHLOROPHENOL	<0.001	0.001	MG/L	10/08/91	SS



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
Surrogates					
NITROBENZENE-d5	75	Min: 35	Max: 114		
2-FLUOROBIPHENYL	90	Min: 43	Max: 116		
TERPHENYL-d14	90	Min: 33	Max: 141		
PHENOL-d5	69	Min: 10	Max: 94		
2-FLUOROPHENOL	90	Min: 21	Max: 100		
TOTAL REC PET HYDROCARBONS	<5.0	5.0	MG/KG	10/11/91	PV

Sample: 06A BH-2 50.2-50.6 Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
BENZENE, TOLUENE, EBENZ, XYLE					
BENZENE	<0.1	0.1	MG/KG	10/09/91	DD
TOLUENE	<0.1	0.1	MG/KG	10/09/91	DD
ETHYL BENZENE	<0.1	0.1	MG/KG	10/09/91	DD
XYLENES	<0.1	0.1	MG/KG	10/09/91	DD
TC1P F SERIES ENRON LIST					
METHYLENE CHLORIDE	<0.02	0.02	MG/L	10/04/91	SS
1,1,1-TRICHLOROETHANE	<0.02	0.02	MG/L	10/04/91	SS
TRICHLORO-TRIFLUOROETHANE	<0.02	0.02	MG/L	10/04/91	SS
ORTHO-DICHLOROBENZENE	<0.02	0.02	MG/L	10/04/91	SS
TRICHLOROFLUOROMETHANE	<0.02	0.02	MG/L	10/04/91	SS
XYLENE	<0.02	0.02	MG/L	10/04/91	SS
ACETONE	<10	10	MG/L	10/04/91	SS
ETHYL ACETATE	<10	10	MG/L	10/04/91	SS
ETHYL BENZENE	<0.02	0.02	MG/L	10/04/91	SS

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Test Description	Result	Limit	Units	Analyzed	By
ETHYL ETHER	<0.02	0.02	MG/L	10/04/91	SS
METHYL ISOBUTYL KETONE	<0.02	0.02	MG/L	10/04/91	SS
n-BUTYL ALCOHOL	<10	10	MG/L	10/04/91	SS
CYCLOHEXANONE	<0.02	0.02	MG/L	10/04/91	SS
METHANOL	<10	10	MG/L	10/04/91	SS
CRESYLIC ACID	<0.001	0.001	MG/L	10/04/91	SS
TOLUENE	<0.02	0.02	MG/L	10/04/91	SS
CARBON DISULFIDE	<0.02	0.02	MG/L	10/04/91	SS
ISOBUTANOL	<10	10	MG/L	10/04/91	SS
2-ETHOXYETHANOL	<10	10	MG/L	10/04/91	SS
2-NITROPROPANE	<0.02	0.02	MG/L	10/04/91	SS
Surrogates					
4-BROMOFLUOROBENZENE	109	Min: 86	Max: 115		
1,2-DICHLOROETHANE-d4	89	Min: 76	Max: 114		
TOLUENE-d8	98	Min: 88	Max: 110		
TCLP METALS					
ARSENIC	<0.005	0.005	MG/L		JB
BARIUM	2.72	0.50	MG/L		JB
CADMIUM	<0.003	0.003	MG/L		JB
CHROMIUM	<0.02	0.02	MG/L		JB
LEAD	<0.10	0.10	MG/L		JB
MERCURY	0.0006	0.0002	MG/L		JB
SELENIUM	<0.005	0.005	MG/L		JB
SILVER	<0.010	0.010	MG/L		JB
TCLP ORGANICS ENRON LIST					
BENZENE	<0.02	0.02	MG/L	10/08/91	SS
CARBON TETRACHLORIDE	<0.02	0.02	MG/L	10/08/91	SS
CHLOROBENZENE	<0.02	0.02	MG/L	10/08/91	SS

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Test Description	Result	Limit	Units	Analyzed	By
CHLOROFORM	<0.02	0.02	MG/L	10/08/91	SS
1,2-DICHLOROETHANE	<0.02	0.02	MG/L	10/08/91	SS
1,1-DICHLOROETHYLENE	<0.02	0.02	MG/L	10/08/91	SS
METHYL ETHYL KETONE	<0.02	0.02	MG/L	10/08/91	SS
TETRACHLOROETHYLENE	<0.02	0.02	MG/L	10/08/91	SS
TRICHLOROETHYLENE	<0.02	0.02	MG/L	10/08/91	SS
VINYL CHLORIDE	<0.02	0.02	MG/L	10/08/91	SS
O-CRESOL	<0.001	0.001	MG/L	10/08/91	SS
M-CRESOL	<0.001	0.001	MG/L	10/08/91	SS
P-CRESOL	<0.001	0.001	MG/L	10/08/91	SS
1,4-DICHLOROBENZENE	<0.001	0.001	MG/L	10/08/91	SS
2,4-DINITROTOLUENE	<0.001	0.001	MG/L	10/08/91	SS
HEXACHLOROBENZENE	<0.001	0.001	MG/L	10/08/91	SS
HEXACHLORO-1,3-BUTADIENE	<0.001	0.001	MG/L	10/08/91	SS
HEXACHLOROETHANE	<0.001	0.001	MG/L	10/08/91	SS
NITROBENZENE	<0.001	0.001	MG/L	10/08/91	SS
PENTACHLOROPHENOL	<0.001	0.001	MG/L	10/08/91	SS
PYRIDINE	<0.001	0.001	MG/L	10/08/91	SS
2,4,5-TRICHLOROPHENOL	<0.001	0.001	MG/L	10/08/91	SS
2,4,6-TRICHLOROPHENOL	<0.001	0.001	MG/L	10/08/91	SS
Surrogates					
NITROBENZENE-d5	84	Min: 35	Max: 114		
2-FLUOROBIPHENYL	97	Min: 43	Max: 116		
TERPHENYL-d14	80	Min: 33	Max: 141		
PHENOL-d5	74	Min: 10	Max: 94		
2-FLUOROPHENOL	104 Q	Min: 21	Max: 100		
TOTAL REC PET HYDROCARBONS	<5.0	5.0	MG/KG	10/11/91	PV



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Sample: 07A BH-3 0-1.2

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
BENZENE, TOLUENE, EBENZ, XYLE		0.1			
BENZENE	<0.1	0.1	MG/KG	10/09/91	DD
TOLUENE	<0.1	0.1	MG/KG	10/09/91	DD
ETHYL BENZENE	<0.1	0.1	MG/KG	10/09/91	DD
XYLENES	<0.1	0.1	MG/KG	10/09/91	DD
TCCLP F SERIES ENRON LIST					
METHYLENE CHLORIDE	<0.02	0.02	MG/L	10/04/91	SS
1,1,1-TRICHLOROETHANE	<0.02	0.02	MG/L	10/04/91	SS
TRICHLORO-TRIFLUOROETHANE	<0.02	0.02	MG/L	10/04/91	SS
ORTHO-DICHLOROBENZENE	<0.02	0.02	MG/L	10/04/91	SS
TRICHLOROFLUOROMETHANE	<0.02	0.02	MG/L	10/04/91	SS
XYLENE	<0.02	0.02	MG/L	10/04/91	SS
ACETONE	<10	10	MG/L	10/04/91	SS
ETHYL ACETATE	<10	10	MG/L	10/04/91	SS
ETHYL BENZENE	<0.02	0.02	MG/L	10/04/91	SS
ETHYL ETHER	<0.02	0.02	MG/L	10/04/91	SS
METHYL ISOBUTYL KETONE	<0.02	0.02	MG/L	10/04/91	SS
n-BUTYL ALCOHOL	<10	10	MG/L	10/04/91	SS
CYCLOHEXANONE	<0.02	0.02	MG/L	10/04/91	SS
METHANOL	<10	10	MG/L	10/04/91	SS
CRESYLIC ACID	<0.001	0.001	MG/L	10/04/91	SS
TOLUENE	<0.02	0.02	MG/L	10/04/91	SS
CARBON DISULFIDE	<0.02	0.02	MG/L	10/04/91	SS
ISOBUTANOL	<10	10	MG/L	10/04/91	SS
2-ETHOXYETHANOL	<10	10	MG/L	10/04/91	SS



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
2-NITROPROPANE	<0.02	0.02	MG/L	10/04/91	SS
Surrogates					
4-BROMOFLUOROBENZENE	110	Min: 86	Max: 115		
1,2-DICHLOROETHANE-d4	89	Min: 76	Max: 114		
TOLUENE-d8	99	Min: 88	Max: 110		
TCCLP METALS					
ARSENIC	<0.005	0.005	MG/L		JB
BARIUM	<0.50	0.50	MG/L		JB
CADMIUM	<0.003	0.003	MG/L		JB
CHROMIUM	<0.02	0.02	MG/L		JB
LEAD	<0.10	0.10	MG/L		JB
MERCURY	0.0007	0.0002	MG/L		JB
SELENIUM	<0.005	0.005	MG/L		JB
SILVER	<0.010	0.010	MG/L		JB
TCCLP ORGANICS ENRON LIST					
BENZENE	<0.02	0.02	MG/L	10/08/91	SS
CARBON TETRACHLORIDE	<0.02	0.02	MG/L	10/08/91	SS
CHLOROBENZENE	<0.02	0.02	MG/L	10/08/91	SS
CHLOROFORM	<0.02	0.02	MG/L	10/08/91	SS
1,2-DICHLOROETHANE	<0.02	0.02	MG/L	10/08/91	SS
1,1-DICHLOROETHYLENE	<0.02	0.02	MG/L	10/08/91	SS
METHYL ETHYL KETONE	<0.02	0.02	MG/L	10/08/91	SS
TETRACHLOROETHYLENE	<0.02	0.02	MG/L	10/08/91	SS
TRICHLOROETHYLENE	<0.02	0.02	MG/L	10/08/91	SS
VINYL CHLORIDE	<0.02	0.02	MG/L	10/08/91	SS
O-CRESOL	<0.001	0.001	MG/L	10/08/91	SS
M-CRESOL	<0.001	0.001	MG/L	10/08/91	SS
P-CRESOL	<0.001	0.001	MG/L	10/08/91	SS

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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
1,4-DICHLOROBENZENE	<0.001	0.001	MG/L	10/08/91	SS
2,4-DINITROTOLUENE	<0.001	0.001	MG/L	10/08/91	SS
HEXACHLOROBENZENE	<0.001	0.001	MG/L	10/08/91	SS
HEXACHLORO-1,3-BUTADIENE	<0.001	0.001	MG/L	10/08/91	SS
HEXACHLOROETHANE	<0.001	0.001	MG/L	10/08/91	SS
NITROBENZENE	<0.001	0.001	MG/L	10/08/91	SS
PENTACHLOROPHENOL	<0.001	0.001	MG/L	10/08/91	SS
PYRIDINE	<0.001	0.001	MG/L	10/08/91	SS
2,4,5-TRICHLOROPHENOL	<0.001	0.001	MG/L	10/08/91	SS
2,4,6-TRICHLOROPHENOL	<0.001	0.001	MG/L	10/08/91	SS
Surrogates					
NITROBENZENE-d5	70	Min: 35	Max: 114		
2-FLUOROBIPHENYL	66	Min: 43	Max: 116		
TERPHENYL-d14	66	Min: 33	Max: 141		
PHENOL-d5	69	Min: 10	Max: 94		
2-FLUOROPHENOL	73	Min: 21	Max: 100		
TOTAL REC PET HYDROCARBONS	32	5.0	MG/KG	10/11/91	PV

Sample: 08A BH-3 9.9-10.1

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
BENZENE, TOLUENE, EBENZ, XYLE	<0.1	0.1	MG/KG	10/09/91	DD
BENZENE	<0.1	0.1	MG/KG	10/09/91	DD
TOLUENE	<0.1	0.1	MG/KG	10/09/91	DD
ETHYL BENZENE	<0.1	0.1	MG/KG	10/09/91	DD
XYLENES	<0.1	0.1	MG/KG	10/09/91	DD



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Test Description	Result	Limit	Units	Analyzed	By
TCLP F SERIES ENRON LIST					
METHYLENE CHLORIDE	<0.02	0.02	MG/L	10/04/91	SS
1,1,1-TRICHLOROETHANE	<0.02	0.02	MG/L	10/04/91	SS
TRICHLORO-TRIFLUOROETHANE	<0.02	0.02	MG/L	10/04/91	SS
ORTHO-DICHLOROBENZENE	<0.02	0.02	MG/L	10/04/91	SS
TRICHLOROFLUOROMETHANE	<0.02	0.02	MG/L	10/04/91	SS
XYLENE	<0.02	0.02	MG/L	10/04/91	SS
ACETONE	<10	10	MG/L	10/04/91	SS
ETHYL ACETATE	<10	10	MG/L	10/04/91	SS
ETHYL BENZENE	<0.02	0.02	MG/L	10/04/91	SS
ETHYL ETHER	<0.02	0.02	MG/L	10/04/91	SS
METHYL ISOBUTYL KETONE	<0.02	0.02	MG/L	10/04/91	SS
n-BUTYL ALCOHOL	<10	10	MG/L	10/04/91	SS
CYCLOHEXANONE	<0.02	0.02	MG/L	10/04/91	SS
METHANOL	<10	10	MG/L	10/04/91	SS
CRESYLIC ACID	<0.001	0.001	MG/L	10/04/91	SS
TOLUENE	<0.02	0.02	MG/L	10/04/91	SS
CARBON DISULFIDE	<0.02	0.02	MG/L	10/04/91	SS
ISOBUTANOL	<10	10	MG/L	10/04/91	SS
2-ETHOXYETHANOL	<10	10	MG/L	10/04/91	SS
2-NITROPROPANE	<0.02	0.02	MG/L	10/04/91	SS
Surrogates					
4-BROMOFLUOROBENZENE	110	Min: 86	Max: 115		
1,2-DICHLOROETHANE-d4	94	Min: 76	Max: 114		
TOLUENE-d8	101	Min: 88	Max: 110		
TCLP METALS					
ARSENIC	<0.005	0.005	MG/L		JB
BARIUM	<0.50	0.50	MG/L		JB
CADMIUM	<0.003	0.003	MG/L		JB
CHROMIUM	<0.02	0.02	MG/L		JB

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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
LEAD	<0.10	0.10	MG/L		JB
MERCURY	0.0007	0.0002	MG/L		JB
SELENIUM	<0.005	0.005	MG/L		JB
SILVER	<0.010	0.010	MG/L		JB
TCLP ORGANICS ENRON LIST					
BENZENE	<0.02	0.02	MG/L	10/08/91	SS
CARBON TETRACHLORIDE	<0.02	0.02	MG/L	10/08/91	SS
CHLOROBENZENE	<0.02	0.02	MG/L	10/08/91	SS
CHLOROFORM	<0.02	0.02	MG/L	10/08/91	SS
1,2-DICHLOROETHANE	<0.02	0.02	MG/L	10/08/91	SS
1,1-DICHLOROETHYLENE	<0.02	0.02	MG/L	10/08/91	SS
METHYL ETHYL KETONE	<0.02	0.02	MG/L	10/08/91	SS
TETRACHLOROETHYLENE	<0.02	0.02	MG/L	10/08/91	SS
TRICHLOROETHYLENE	<0.02	0.02	MG/L	10/08/91	SS
VINYL CHLORIDE	<0.02	0.02	MG/L	10/08/91	SS
O-CRESOL	<0.001	0.001	MG/L	10/08/91	SS
M-CRESOL	<0.001	0.001	MG/L	10/08/91	SS
P-CRESOL	<0.001	0.001	MG/L	10/08/91	SS
1,4-DICHLOROBENZENE	<0.001	0.001	MG/L	10/08/91	SS
2,4-DINITROTOLUENE	<0.001	0.001	MG/L	10/08/91	SS
HEXACHLOROBENZENE	<0.001	0.001	MG/L	10/08/91	SS
HEXACHLORO-1,3-BUTADIENE	<0.001	0.001	MG/L	10/08/91	SS
HEXACHLOROETHANE	<0.001	0.001	MG/L	10/08/91	SS
NITROBENZENE	<0.001	0.001	MG/L	10/08/91	SS
PENTACHLOROPHENOL	<0.001	0.001	MG/L	10/08/91	SS
PYRIDINE	<0.001	0.001	MG/L	10/08/91	SS
2,4,5-TRICHLOROPHENOL	<0.001	0.001	MG/L	10/08/91	SS
2,4,6-TRICHLOROPHENOL	<0.001	0.001	MG/L	10/08/91	SS



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
Surrogates					
NITROBENZENE-d5	82	Min: 35	Max: 114		
2-FLUOROBIPHENYL	100	Min: 43	Max: 116		
TERPHENYL-d14	77	Min: 33	Max: 141		
PHENOL-d5	92	Min: 10	Max: 94		
2-FLUOROPHENOL	121 Q	Min: 21	Max: 100		
TOTAL REC PET HYDROCARBONS	<5.0	5.0	MG/KG	10/11/91	PV



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REGULAR TEST RESULTS BY TEST

ALUMINUM (TOTAL) Method: EPA 202	Minimum: 1.0 Maximum: 20	
<u>Sample Sample Description</u> 02A MW-2	<u>Result</u> <1.0	<u>Units Extracted Analyzed By</u> MG/L 10/02/91 10/09/91 JC
BARIUM (TOTAL) Method: EPA 208	Minimum: 0.50 Maximum: 20	
<u>Sample Sample Description</u> 02A MW-2	<u>Result</u> <0.50	<u>Units Extracted Analyzed By</u> MG/L 10/02/91 10/09/91 JC
CALCIUM (TOTAL) Method: EPA 215.1	Minimum: 0.1 Maximum: 100	
<u>Sample Sample Description</u> 02A MW-2	<u>Result</u> 76	<u>Units Extracted Analyzed By</u> MG/L 10/02/91 10/09/91 JC
CHROMIUM (TOTAL) Method: EPA 218	Minimum: 0.02 Maximum: 20	
<u>Sample Sample Description</u> 02A MW-2	<u>Result</u> <0.02	<u>Units Extracted Analyzed By</u> MG/L 10/02/91 10/09/91 JC



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IRON (TOTAL)
Method: EPA 236

Minimum:	0.05	Maximum:	20
<u>Sample</u>	<u>Sample Description</u>	<u>Result</u>	<u>Units</u> <u>Extracted</u> <u>Analyzed</u> <u>By</u>
02A	MW-2	0.12	MG/L 10/02/91 10/09/91 JC

LEAD (TOTAL)
Method: EPA 239

Minimum:	0.1	Maximum:	20
<u>Sample</u>	<u>Sample Description</u>	<u>Result</u>	<u>Units</u> <u>Extracted</u> <u>Analyzed</u> <u>By</u>
02A	MW-2	<0.10	MG/L 10/02/91 10/09/91 JC

LITHIUM (TOTAL)
Method: EPA 200

Minimum:	0.05	Maximum:	20
<u>Sample</u>	<u>Sample Description</u>	<u>Result</u>	<u>Units</u> <u>Extracted</u> <u>Analyzed</u> <u>By</u>
02A	MW-2	<0.05	MG/L 10/02/91 10/09/91 JC

MAGNESIUM (TOTAL)
Method: EPA 242.1

Minimum:	0.005	Maximum:	20
<u>Sample</u>	<u>Sample Description</u>	<u>Result</u>	<u>Units</u> <u>Extracted</u> <u>Analyzed</u> <u>By</u>
02A	MW-2	6.5	MG/L 10/02/91 10/09/91 JC



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MANGANESE (TOTAL)
Method: EPA 243

Sample Sample Description
02A MW-2

Minimum: 0.02 Maximum: 20

Result 0.05
Units Extracted Analyzed By
MG/L 10/02/91 10/09/91 JC

POTASSIUM (TOTAL)
Method: EPA 258.1

Sample Sample Description
02A MW-2

Minimum: 0.05 Maximum: 20

Result 13
Units Extracted Analyzed By
MG/L 10/02/91 10/09/91 JC

SODIUM (TOTAL)
Method: EPA 273.1

Sample Sample Description
02A MW-2

Minimum: 0.02 Maximum: 20

Result 13
Units Extracted Analyzed By
MG/L 10/02/91 10/09/91 JC

STRONTIUM (TOTAL)
Method: EPA 200

Sample Sample Description
02A MW-2

Minimum: 0.005 Maximum: 20

Result <0.005
Units Extracted Analyzed By
MG/L 10/02/91 10/09/91 JC



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TOTAL REC PET HYDROCARBONS
Method: EPA 418.1

Minimum: 5.0 Maximum: 100

Sample	Sample Description	Result	Units	Extracted	Analyzed	By
03A	BH-2 0-2.7	20	MG/KG	10/11/91	10/11/91	PV
04A	BH-2 8.4-9.4	8.0	MG/KG	10/11/91	10/11/91	PV
05A	BH-2 35.4-35.6	<5.0	MG/KG	10/11/91	10/11/91	PV
06A	BH-2 50.2-50.6	<5.0	MG/KG	10/11/91	10/11/91	PV
07A	BH-3 0-1.2	32	MG/KG	10/11/91	10/11/91	PV
08A	BH-3 9.9-10.1	<5.0	MG/KG	10/11/91	10/11/91	PV

ZINC (TOTAL)
Method: EPA 289

Minimum: 0.01 Maximum: 20

Sample	Sample Description	Result	Units	Extracted	Analyzed	By
02A	MW-2	0.05	MG/L	10/02/91	10/09/91	JC



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TEST METHODOLOGIES

USEPA METHOD # 202

BARIUM: USEPA METHOD # 208

CALCIUM: USEPA METHOD # 215.1

CHROMIUM: USEPA METHOD # 218

IRON: USEPA METHOD # 236

POTASSIUM: USEPA METHOD # 258.1

LITHIUM: USEPA METHOD # 200

USEPA METHOD # 242.1

USEPA METHOD # 243

USEPA METHOD # 273.1

USEPA METHOD # 239

TCLP METALS: USEPA 200 SERIES METHODOLOGY

TCLP EXTRACTION: USEPA METHOD # 1311

PURGEABLE HALOCARBONS = USEPA METHOD #601
ANALYZED ON GC-PURGE & TRAP



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PURGEABLE AROMATICS: USEPA METHOD #602
ANALYZED ON GC-PURGE & TRAP

BENZENE, TOLUENE, ETHYLBENZENE, XYLENES: USEPA METHOD # 602/8020
USEPA METHOD # 418.1



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Assaigai Analytical Labs
7300 Jefferson NE
Albuquerque, NM 87109

Attn: SYED RIZVI
Phone: (505) 345-8964

ENRON/TRANSWESTERN PIPELINE
HOBBS PLANT
2626 WEST MARLAND
HOBBS, NM 88240
Attn: MIKE KNEESE
Invoice Number: 912276

Order #: 91-10-008
Date: 10/16/91 10:19
Work ID: HOBBS 5160
Date Received: 10/01/91
Date Completed: 10/16/91
8416

SAMPLE IDENTIFICATION

Sample Number	Sample Description
01	BH-3 50.1 - 50.4
03	BH-4 29.6 - 29.9
05	BH-5 0 - 2.3
07	BH-19 0.9 - 1.9
09	BH-8 0 - 1.3
11	BH-19 21.5 - 22.0

Sample Number	Sample Description
02	BH-9 0 - 2.5
04	BH-7 0 - 1.1
06	BH-3 30.4 - 30.7
08	BH-6 0 - 1.95
10	BH-4 21.3 - 21.7
12	BH-4 8.7 - 9.7



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QUESTIONS ABOUT THIS REPORT SHOULD BE ADDRESSED TO:
LABORATORY OPERATIONS MANAGER/ASSAIGAI ANALYTICAL
7300 JEFFERSON N.E., ALBUQUERQUE, N.M. 87109

Syed Rizvi

Certified by
SYED N. RIZVI



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Sample: 01A BH-3 50.1 - 50.4

Collected:

TEST RESULTS BY SAMPLE

Test Description	Result	Limit	Units	Analyzed	By
BENZENE, TOLUENE, EBENZ, XYLE					
BENZENE	<.01	0.1	MG/KG	10/08/91	DD
TOLUENE	<.01	0.1	MG/KG	10/08/91	DD
ETHYL BENZENE	<.01	0.1	MG/KG	10/08/91	DD
XYLENES	<.01	0.1	MG/KG	10/08/91	DD
TCLP F SERIES ENRON LIST					
METHYLENE CHLORIDE	<.020	.020	MG/L	10/10/91	OS
1,1,1-TRICHLOROETHANE	<.020	.020	MG/L	10/10/91	OS
TRICHLORO-TRIFLUOROETHANE	<.020	.020	MG/L	10/10/91	OS
ORTHO-DICHLOROBENZENE	<.020	.020	MG/L	10/10/91	OS
TRICHLOROFLUOROMETHANE	<.020	.020	MG/L	10/10/91	OS
XYLENE	<.020	.020	MG/L	10/10/91	OS
ACETONE	<10	10	MG/L	10/10/91	OS
ETHYL ACETATE	<10	10	MG/L	10/10/91	OS
ETHYL BENZENE	<.020	.020	MG/L	10/10/91	OS
ETHYL ETHER	<.020	.020	MG/L	10/10/91	OS
METHYL ISOBUTYL KETONE	<.020	.020	MG/L	10/10/91	OS
n-BUTYL ALCOHOL	<10	10	MG/L	10/10/91	OS
CYCLOHEXANONE	<.020	.020	MG/L	10/10/91	OS
METHANOL	<10	10	MG/L	10/10/91	OS
CRESYLIC ACID	<.001	.001	MG/L	10/10/91	OS
TOLUENE	<.020	.020	MG/L	10/10/91	OS
CARBON DISULFIDE	<.020	.020	MG/L	10/10/91	OS



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
ISOBUTANOL	<10	10	MG/L	10/10/91	OS
2-ETHOXYETHANOL	<10	10	MG/L	10/10/91	OS
2-NITROPROPANE	<.020	.020	MG/L	10/10/91	OS
Surrogates					
4-BROMOFLUOROBENZENE	105	Min: 86	Max: 115		
1,2-DICHLOROETHANE-d4	96	Min: 76	Max: 114		
TOLUENE-d8	102	Min: 88	Max: 110		
TCLP METALS					
ARSENIC	<0.005	0.005	MG/L		JB
BARIUM	<0.50	0.50	MG/L		JB
CADMIUM	<0.003	0.003	MG/L		JB
CHROMIUM	<0.02	0.02	MG/L		JB
LEAD	<0.10	0.10	MG/L		JB
MERCURY	<0.0002	0.0002	MG/L		JB
SELENIUM	<0.005	0.005	MG/L		JB
SILVER	<0.010	0.010	MG/L		JB
TCLP ORGANICS ENRON LIST					
BENZENE	<.020	.020	MG/L	10/14/91	SS
CARBON TETRACHLORIDE	<.020	.020	MG/L	10/14/91	SS
CHLOROBENZENE	<.020	.020	MG/L	10/14/91	SS
CHLOROFORM	<.020	.020	MG/L	10/14/91	SS
1,2-DICHLOROETHANE	<.020	.020	MG/L	10/14/91	SS
1,1-DICHLOROETHYLENE	<.020	.020	MG/L	10/14/91	SS
METHYL ETHYL KETONE	<.020	.020	MG/L	10/14/91	SS
TETRACHLOROETHYLENE	<.020	.020	MG/L	10/14/91	SS
TRICHLOROETHYLENE	<.020	.020	MG/L	10/14/91	SS
VINYL CHLORIDE	<.020	.020	MG/L	10/14/91	SS
O-CRESOL	<.001	.001	MG/L	10/14/91	SS



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
M-CRESOL	<.001	.001	MG/L	10/14/91	SS
P-CRESOL	<.001	.001	MG/L	10/14/91	SS
1,4-DICHLOROBENZENE	<.001	.001	MG/L	10/14/91	SS
2,4-DINITROTOLUENE	<.001	.001	MG/L	10/14/91	SS
HEXACHLOROBENZENE	<.001	.001	MG/L	10/14/91	SS
HEXACHLORO-1,3-BUTADIENE	<.001	.001	MG/L	10/14/91	SS
HEXACHLOROETHANE	<.001	.001	MG/L	10/14/91	SS
NITROBENZENE	<.001	.001	MG/L	10/14/91	SS
PENTACHLOROPHENOL	<.001	.001	MG/L	10/14/91	SS
PYRIDINE	<.001	.001	MG/L	10/14/91	SS
2,4,5-TRICHLOROPHENOL	<.001	.001	MG/L	10/14/91	SS
2,4,6-TRICHLOROPHENOL	<.001	.001	MG/L	10/14/91	SS
Surrogates					
NITROBENZENE-d5	67	Min: 35	Max: 114		
2-FLUOROBIPHENYL	62	Min: 43	Max: 116		
TERPHENYL-d14	62	Min: 33	Max: 141		
PHENOL-d5	59	Min: 10	Max: 94		
2-FLUOROPHENOL	71	Min: 21	Max: 100		
TOTAL REC PET HYDROCARBONS	<5.0	5.0	MG/KG	10/09/91	PV

Sample: 02A BH-9 0 - 2.5

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
BENZENE, TOLUENE, EBENZ, XYLE		0.1			
BENZENE	<0.1	0.1	MG/KG	10/08/91	DD
TOLUENE	<0.1	0.1	MG/KG	10/08/91	DD



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Test Description	Result	Limit	Units	Analyzed	By
ETHYL BENZENE	0.55	0.1	MG/KG	10/08/91	DD
XYLENES	1.6	0.1	MG/KG	10/08/91	DD
TCLP F SERIES ENRON LIST					
METHYLENE CHLORIDE	<.020	.020	MG/L	10/10/91	OS
1,1,1-TRICHLOROETHANE	<.020	.020	MG/L	10/10/91	OS
TRICHLORO-TRIFLUOROETHANE	<.020	.020	MG/L	10/10/91	OS
ORTHO-DICHLOROBENZENE	<.020	.020	MG/L	10/10/91	OS
TRICHLOROFLUOROMETHANE	<.020	.020	MG/L	10/10/91	OS
XYLENE	<.020	.020	MG/L	10/10/91	OS
ACETONE	<10	10	MG/L	10/10/91	OS
ETHYL ACETATE	<10	10	MG/L	10/10/91	OS
ETHYL BENZENE	<.020	.020	MG/L	10/10/91	OS
ETHYL ETHER	<.020	.020	MG/L	10/10/91	OS
METHYL ISOBUTYL KETONE	<.020	.020	MG/L	10/10/91	OS
n-BUTYL ALCOHOL	<10	10	MG/L	10/10/91	OS
CYCLOHEXANONE	<.020	.020	MG/L	10/10/91	OS
METHANOL	<10	10	MG/L	10/10/91	OS
CRESYLIC ACID	<.001	.001	MG/L	10/10/91	OS
TOLUENE	<.020	.020	MG/L	10/10/91	OS
CARBON DISULFIDE	<.020	.020	MG/L	10/10/91	OS
ISOBUTANOL	<10	10	MG/L	10/10/91	OS
2-ETHOXYETHANOL	<10	10	MG/L	10/10/91	OS
2-NITROPROPANE	<.020	.020	MG/L	10/10/91	OS
Surrogates					
4-BROMOFLUOROBENZENE	105	Min: 86	Max: 115		
1,2-DICHLOROETHANE-d4	125 Q	Min: 76	Max: 114		
TOLUENE-d8	104	Min: 88	Max: 110		
TCLP METALS					

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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
ARSENIC	<0.005	0.005	MG/L		JB
BARIUM	0.86	0.50	MG/L		JB
CADMIUM	<0.003	0.003	MG/L		JB
CHROMIUM	<0.02	0.02	MG/L		JB
LEAD	<0.10	0.10	MG/L		JB
MERCURY	<0.0002	0.0002	MG/L		JB
SELENIUM	<0.005	0.005	MG/L		JB
SILVER	0.012	0.010	MG/L		JB
TCCLP ORGANICS ENRON LIST					
BENZENE	<.020	.020	MG/L	10/14/91	SS
CARBON TETRACHLORIDE	<.020	.020	MG/L	10/14/91	SS
CHLOROBENZENE	<.020	.020	MG/L	10/14/91	SS
CHLOROFORM	<.020	.020	MG/L	10/14/91	SS
1,2-DICHLOROETHANE	<.020	.020	MG/L	10/14/91	SS
1,1-DICHLOROETHYLENE	<.020	.020	MG/L	10/14/91	SS
METHYL ETHYL KETONE	<.020	.020	MG/L	10/14/91	SS
TETRACHLOROETHYLENE	<.020	.020	MG/L	10/14/91	SS
TRICHLOROETHYLENE	<.020	.020	MG/L	10/14/91	SS
VINYL CHLORIDE	<.020	.020	MG/L	10/14/91	SS
O-CRESOL	<.001	.001	MG/L	10/14/91	SS
M-CRESOL	<.001	.001	MG/L	10/14/91	SS
P-CRESOL	<.001	.001	MG/L	10/14/91	SS
1,4-DICHLOROBENZENE	<.001	.001	MG/L	10/14/91	SS
2,4-DINITROTOLUENE	<.001	.001	MG/L	10/14/91	SS
HEXACHLOROBENZENE	<.001	.001	MG/L	10/14/91	SS
HEXACHLORO-1,3-BUTADIENE	<.001	.001	MG/L	10/14/91	SS
HEXACHLOROETHANE	<.001	.001	MG/L	10/14/91	SS
NITROBENZENE	<.001	.001	MG/L	10/14/91	SS



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
PENTACHLOROPHENOL	<.001	.001	MG/L	10/14/91	SS
PYRIDINE	<.001	.001	MG/L	10/14/91	SS
2,4,5-TRICHLOROPHENOL	<.001	.001	MG/L	10/14/91	SS
2,4,6-TRICHLOROPHENOL	<.001	.001	MG/L	10/14/91	SS
Surrogates					
NITROBENZENE-d5	71	Min: 35	Max: 114		
2-FLUOROBIPHENYL	77	Min: 43	Max: 116		
TERPHENYL-d14	25 Q	Min: 33	Max: 141		
PHENOL-d5	63	Min: 10	Max: 94		
2-FLUOROPHENOL	68	Min: 21	Max: 100		
TOTAL REC PET HYDROCARBONS	6000	5.0	MG/KG	10/09/91	PV

Sample: 03A BH-4 29.6 - 29.9

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
BENZENE, TOLUENE, EBENZ, XYLE					
BENZENE	<0.1	0.1	MG/KG	10/08/91	DD
TOLUENE	<0.1	0.1	MG/KG	10/08/91	DD
ETHYL BENZENE	<0.1	0.1	MG/KG	10/08/91	DD
XYLENES	<0.1	0.1	MG/KG	10/08/91	DD
TCLP F SERIES ENRON LIST					
METHYLENE CHLORIDE	<.020	.020	MG/L	10/10/91	OS
1,1,1-TRICHLOROETHANE	<.020	.020	MG/L	10/10/91	OS
TRICHLORO-TRIFLUOROETHANE	<.020	.020	MG/L	10/10/91	OS
ORTHO-DICHLOROBENZENE	<.020	.020	MG/L	10/10/91	OS
TRICHLOROFLUOROMETHANE	<.020	.020	MG/L	10/10/91	OS



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Test Description	Result	Limit	Units	Analyzed	By
XYLENE	<.020	.020	MG/L	10/10/91	OS
ACETONE	<10	10	MG/L	10/10/91	OS
ETHYL ACETATE	<10	10	MG/L	10/10/91	OS
ETHYL BENZENE	<.020	.020	MG/L	10/10/91	OS
ETHYL ETHER	<.020	.020	MG/L	10/10/91	OS
METHYL ISOBUTYL KETONE	<.020	.020	MG/L	10/10/91	OS
n-BUTYL ALCOHOL	<10	10	MG/L	10/10/91	OS
CYCLOHEXANONE	<.020	.020	MG/L	10/10/91	OS
METHANOL	<10	10	MG/L	10/10/91	OS
CRESYLIC ACID	<.001	.001	MG/L	10/10/91	OS
TOLUENE	<.020	.020	MG/L	10/10/91	OS
CARBON DISULFIDE	<.020	.020	MG/L	10/10/91	OS
ISOBUTANOL	<10	10	MG/L	10/10/91	OS
2-ETHOXYETHANOL	<10	10	MG/L	10/10/91	OS
2-NITROPROPANE	<.020	.020	MG/L	10/10/91	OS
Surrogates					
4-BROMOFLUOROBENZENE	107	Min: 86	Max: 115		
1,2-DICHLOROETHANE-d4	119 Q	Min: 76	Max: 114		
TOLUENE-d8	103	Min: 88	Max: 110		
TCLP METALS					
ARSENIC	0.024	0.005	MG/L		JB
BARIUM	<0.50	0.50	MG/L		JB
CADMIUM	<0.003	0.003	MG/L		JB
CHROMIUM	0.04	0.02	MG/L		JB
LEAD	<0.10	0.10	MG/L		JB
MERCURY	<0.0002	0.0002	MG/L		JB
SELENIUM	<0.005	0.005	MG/L		JB
SILVER	0.027	0.010	MG/L		JB



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Test Description	Result	Limit	Units	Analyzed	By
TCLP ORGANICS ENRON LIST					
BENZENE	<.020	.020	MG/L	10/14/91	SS
CARBON TETRACHLORIDE	<.020	.020	MG/L	10/14/91	SS
CHLOROBENZENE	<.020	.020	MG/L	10/14/91	SS
CHLOROFORM	<.020	.020	MG/L	10/14/91	SS
1,2-DICHLOROETHANE	<.020	.020	MG/L	10/14/91	SS
1,1-DICHLOROETHYLENE	<.020	.020	MG/L	10/14/91	SS
METHYL ETHYL KETONE	<.020	.020	MG/L	10/14/91	SS
TETRACHLOROETHYLENE	<.020	.020	MG/L	10/14/91	SS
TRICHLOROETHYLENE	<.020	.020	MG/L	10/14/91	SS
VINYL CHLORIDE	<.020	.020	MG/L	10/14/91	SS
O-CRESOL	<.001	.001	MG/L	10/14/91	SS
M-CRESOL	<.001	.001	MG/L	10/14/91	SS
P-CRESOL	<.001	.001	MG/L	10/14/91	SS
1,4-DICHLOROBENZENE	<.001	.001	MG/L	10/14/91	SS
2,4-DINITROTOLUENE	<.001	.001	MG/L	10/14/91	SS
HEXACHLOROBENZENE	<.001	.001	MG/L	10/14/91	SS
HEXACHLORO-1,3-BUTADIENE	<.001	.001	MG/L	10/14/91	SS
HEXACHLOROETHANE	<.001	.001	MG/L	10/14/91	SS
NITROBENZENE	<.001	.001	MG/L	10/14/91	SS
PENTACHLOROPHENOL	<.001	.001	MG/L	10/14/91	SS
PYRIDINE	<.001	.001	MG/L	10/14/91	SS
2,4,5-TRICHLOROPHENOL	<.001	.001	MG/L	10/14/91	SS
2,4,6-TRICHLOROPHENOL	<.001	.001	MG/L	10/14/91	SS
Surrogates					
NITROBENZENE-d5	69	Min: 35	Max: 114		
2-FLUOROBIPHENYL	70	Min: 43	Max: 116		
TERPHENYL-d14	46	Min: 33	Max: 141		
PHENOL-d5	58	Min: 10	Max: 94		
2-FLUOROPHENOL	73	Min: 21	Max: 100		



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Test Description
TOTAL REC PET HYDROCARBONSResult
<5.0Units Analyzed By
MG/KG 10/09/91 PV

Sample: 04A BH-7 0 - 1.1

Collected:

Test Description	Result	Limit	Units	Analyzed	By
BENZENE, TOLUENE, EBENZ, XYLE		0.1			
BENZENE	<0.1	0.1	MG/KG	10/08/91	DD
TOLUENE	<0.1	0.1	MG/KG	10/08/91	DD
ETHYL BENZENE	0.12	0.1	MG/KG	10/08/91	DD
XYLENES	0.29	0.1	MG/KG	10/08/91	DD
TCLP F SERIES ENRON LIST					
METHYLENE CHLORIDE	<.020	.020	MG/L	10/10/91	OS
1,1,1-TRICHLOROETHANE	<.020	.020	MG/L	10/10/91	OS
TRICHLORO-TRIFLUOROETHANE	<.020	.020	MG/L	10/10/91	OS
ORTHO-DICHLOROBENZENE	<.020	.020	MG/L	10/10/91	OS
TRICHLOROFLUOROMETHANE	<.020	.020	MG/L	10/10/91	OS
XYLENE	<.020	.020	MG/L	10/10/91	OS
ACETONE	<10	10	MG/L	10/10/91	OS
ETHYL ACETATE	<10	10	MG/L	10/10/91	OS
ETHYL BENZENE	<.020	.020	MG/L	10/10/91	OS
ETHYL ETHER	<.020	.020	MG/L	10/10/91	OS
METHYL ISOBUTYL KETONE	<.020	.020	MG/L	10/10/91	OS
n-BUTYL ALCOHOL	<10	10	MG/L	10/10/91	OS
CYCLOHEXANONE	<.020	.020	MG/L	10/10/91	OS
METHANOL	<10	10	MG/L	10/10/91	OS
CRESYLIC ACID	<.001	.001	MG/L	10/10/91	OS
TOLUENE	<.020	.020	MG/L	10/10/91	OS
CARBON DISULFIDE	<.020	.020	MG/L	10/10/91	OS



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
ISOBUTANOL	<10	10	MG/L	10/10/91	OS
2-ETHOXYETHANOL	<10	10	MG/L	10/10/91	OS
2-NITROPROPANE	<.020	.020	MG/L	10/10/91	OS
Surrogates					
4-BROMOFLUOROBENZENE	108	Min: 86	Max: 115		
1,2-DICHLOROETHANE-d4	102	Min: 76	Max: 114		
TOLUENE-d8	105	Min: 88	Max: 110		
TCLP METALS					
ARSENIC	<0.005	0.005	MG/L		JB
BARIUM	0.86	0.50	MG/L		JB
CADMIUM	<0.003	0.003	MG/L		JB
CHROMIUM	<0.02	0.02	MG/L		JB
LEAD	<0.10	0.10	MG/L		JB
MERCURY	<0.0002	0.0002	MG/L		JB
SELENIUM	<0.005	0.005	MG/L		JB
SILVER	0.012	0.010	MG/L		JB
TCLP ORGANICS ENRON LIST					
BENZENE	<.020	.020	MG/L	10/14/91	SS
CARBON TETRACHLORIDE	<.020	.020	MG/L	10/14/91	SS
CHLOROBENZENE	<.020	.020	MG/L	10/14/91	SS
CHLOROFORM	<.020	.020	MG/L	10/14/91	SS
1,2-DICHLOROETHANE	<.020	.020	MG/L	10/14/91	SS
1,1-DICHLOROETHYLENE	<.020	.020	MG/L	10/14/91	SS
METHYL ETHYL KETONE	<.020	.020	MG/L	10/14/91	SS
TETRACHLOROETHYLENE	<.020	.020	MG/L	10/14/91	SS
TRICHLOROETHYLENE	<.020	.020	MG/L	10/14/91	SS
VINYL CHLORIDE	<.020	.020	MG/L	10/14/91	SS
O-CRESOL	<.001	.001	MG/L	10/14/91	SS



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
M-CRESOL	<.001	.001	MG/L	10/14/91	SS
P-CRESOL	<.001	.001	MG/L	10/14/91	SS
1,4-DICHLOROBENZENE	<.001	.001	MG/L	10/14/91	SS
2,4-DINITROTOLUENE	<.001	.001	MG/L	10/14/91	SS
HEXACHLOROBENZENE	<.001	.001	MG/L	10/14/91	SS
HEXACHLORO-1,3-BUTADIENE	<.001	.001	MG/L	10/14/91	SS
HEXACHLOROETHANE	<.001	.001	MG/L	10/14/91	SS
NITROBENZENE	<.001	.001	MG/L	10/14/91	SS
PENTACHLOROPHENOL	<.001	.001	MG/L	10/14/91	SS
PYRIDINE	<.001	.001	MG/L	10/14/91	SS
2,4,5-TRICHLOROPHENOL	<.001	.001	MG/L	10/14/91	SS
2,4,6-TRICHLOROPHENOL	<.001	.001	MG/L	10/14/91	SS
Surrogates					
NITROBENZENE-d5	68	Min: 35	Max: 114		
2-FLUOROBIPHENYL	70	Min: 43	Max: 116		
TERPHENYL-d14	23 Q	Min: 33	Max: 141		
PHENOL-d5	61	Min: 10	Max: 94		
2-FLUOROPHENOL	72	Min: 21	Max: 100		
TOTAL REC PET HYDROCARBONS	14000	5.0	MG/KG	10/09/91	PV

Sample: 05A BH-5 0 - 2.3

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
BENZENE, TOLUENE, EBENZ, XYLE		0.1			
BENZENE	<0.1	0.1	MG/KG	10/08/91	DD
TOLUENE	<0.1	0.1	MG/KG	10/08/91	DD



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
ETHYL BENZENE	<0.1	0.1	MG/KG	10/08/91	DD
XYLENES	<0.1	0.1	MG/KG	10/08/91	DD
TCLP F SERIES ENRON LIST					
METHYLENE CHLORIDE	<.020	.020	MG/L	10/10/91	OS
1,1,1-TRICHLOROETHANE	<.020	.020	MG/L	10/10/91	OS
TRICHLORO-TRIFLUOROETHANE	<.020	.020	MG/L	10/10/91	OS
ORTHO-DICHLOROBENZENE	<.020	.020	MG/L	10/10/91	OS
TRICHLOROFLUOROMETHANE	<.020	.020	MG/L	10/10/91	OS
XYLENE	<.020	.020	MG/L	10/10/91	OS
ACETONE	<10	10	MG/L	10/10/91	OS
ETHYL ACETATE	<10	10	MG/L	10/10/91	OS
ETHYL BENZENE	<.020	.020	MG/L	10/10/91	OS
ETHYL ETHER	<.020	.020	MG/L	10/10/91	OS
METHYL ISOBUTYL KETONE	<.020	.020	MG/L	10/10/91	OS
n-BUTYL ALCOHOL	<10	10	MG/L	10/10/91	OS
CYCLOHEXANONE	<.020	.020	MG/L	10/10/91	OS
METHANOL	<10	10	MG/L	10/10/91	OS
CRESYLIC ACID	<.001	.001	MG/L	10/10/91	OS
TOLUENE	<.020	.020	MG/L	10/10/91	OS
CARBON DISULFIDE	<.020	.020	MG/L	10/10/91	OS
ISOBUTANOL	<10	10	MG/L	10/10/91	OS
2-ETHOXYETHANOL	<10	10	MG/L	10/10/91	OS
2-NITROPROPANE	<.020	.020	MG/L	10/10/91	OS
Surrogates					
4-BROMOFLUOROBENZENE	107	Min: 86		Max: 115	
1,2-DICHLOROETHANE-d4	130 Q	Min: 76		Max: 114	
TOLUENE-d8	104	Min: 88		Max: 110	
TCLP METALS					



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
ARSENIC	<0.005	0.005	MG/L		JB
BARIUM	1.18	0.50	MG/L		JB
CADMIUM	<0.003	0.003	MG/L		JB
CHROMIUM	<0.02	0.02	MG/L		JB
LEAD	<0.10	0.10	MG/L		JB
MERCURY	<0.0002	0.0002	MG/L		JB
SELENIUM	<0.005	0.005	MG/L		JB
SILVER	0.018	0.010	MG/L		JB
TCLP ORGANICS ENRON LIST					
BENZENE	<.020	.020	MG/L	10/14/91	SS
CARBON TETRACHLORIDE	<.020	.020	MG/L	10/14/91	SS
CHLOROBENZENE	<.020	.020	MG/L	10/14/91	SS
CHLOROFORM	<.020	.020	MG/L	10/14/91	SS
1,2-DICHLOROETHANE	<.020	.020	MG/L	10/14/91	SS
1,1-DICHLOROETHYLENE	<.020	.020	MG/L	10/14/91	SS
METHYL ETHYL KETONE	<.020	.020	MG/L	10/14/91	SS
TETRACHLOROETHYLENE	<.020	.020	MG/L	10/14/91	SS
TRICHLOROETHYLENE	<.020	.020	MG/L	10/14/91	SS
VINYL CHLORIDE	<.020	.020	MG/L	10/14/91	SS
O-CRESOL	<.001	.001	MG/L	10/14/91	SS
M-CRESOL	<.001	.001	MG/L	10/14/91	SS
P-CRESOL	<.001	.001	MG/L	10/14/91	SS
1,4-DICHLOROBENZENE	<.001	.001	MG/L	10/14/91	SS
2,4-DINITROTOLUENE	<.001	.001	MG/L	10/14/91	SS
HEXACHLOROBENZENE	<.001	.001	MG/L	10/14/91	SS
HEXACHLORO-1,3-BUTADIENE	<.001	.001	MG/L	10/14/91	SS
HEXACHLOROETHANE	<.001	.001	MG/L	10/14/91	SS
NITROBENZENE	<.001	.001	MG/L	10/14/91	SS



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
PENTACHLOROPHENOL	<.001	.001	MG/L	10/14/91	SS
PYRIDINE	<.001	.001	MG/L	10/14/91	SS
2,4,5-TRICHLOROPHENOL	<.001	.001	MG/L	10/14/91	SS
2,4,6-TRICHLOROPHENOL	<.001	.001	MG/L	10/14/91	SS
Surrogates					
NITROBENZENE-d5	55	Min: 35	Max: 114		
2-FLUOROBIPHENYL	56	Min: 43	Max: 116		
TERPHENYL-d14	59	Min: 33	Max: 141		
PHENOL-d5	14	Min: 10	Max: 94		
2-FLUOROPHENOL	20 Q	Min: 21	Max: 100		
TOTAL REC PET HYDROCARBONS	200	5.0	MG/KG	10/09/91	PV

Sample: 06A BH-3 30.4 - 30.7

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
BENZENE, TOLUENE, EBENZ, XYLE		0.1			
BENZENE	<0.1	0.1	MG/KG	10/08/91	DD
TOLUENE	<0.1	0.1	MG/KG	10/08/91	DD
ETHYL BENZENE	<0.1	0.1	MG/KG	10/08/91	DD
XYLENES	<0.1	0.1	MG/KG	10/08/91	DD
TCLP F SERIES ENRON LIST					
METHYLENE CHLORIDE	<.020	.020	MG/L	10/10/91	OS
1,1,1-TRICHLOROETHANE	<.020	.020	MG/L	10/10/91	OS
TRICHLORO-TRIFLUOROETHANE	<.020	.020	MG/L	10/10/91	OS
ORTHO-DICHLOROBENZENE	<.020	.020	MG/L	10/10/91	OS
TRICHLOROFLUOROMETHANE	<.020	.020	MG/L	10/10/91	OS



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Test Description	Result	Limit	Units	Analyzed	By
XYLENE	<.020	.020	MG/L	10/10/91	OS
ACETONE	<10	10	MG/L	10/10/91	OS
ETHYL ACETATE	<10	10	MG/L	10/10/91	OS
ETHYL BENZENE	<.020	.020	MG/L	10/10/91	OS
ETHYL ETHER	<.020	.020	MG/L	10/10/91	OS
METHYL ISOBUTYL KETONE	<.020	.020	MG/L	10/10/91	OS
n-BUTYL ALCOHOL	<10	10	MG/L	10/10/91	OS
CYCLOHEXANONE	<.020	.020	MG/L	10/10/91	OS
METHANOL	<10	10	MG/L	10/10/91	OS
CRESYLIC ACID	<.001	.001	MG/L	10/10/91	OS
TOLUENE	<.020	.020	MG/L	10/10/91	OS
CARBON DISULFIDE	<.020	.020	MG/L	10/10/91	OS
ISOBUTANOL	<10	10	MG/L	10/10/91	OS
2-ETHOXYETHANOL	<10	10	MG/L	10/10/91	OS
2-NITROPROPANE	<.020	.020	MG/L	10/10/91	OS
Surrogates					
4-BROMOFLUOROBENZENE	108	Min: 86	Max: 115		
1,2-DICHLOROETHANE-d4	116 Q	Min: 76	Max: 114		
TOLUENE-d8	104	Min: 88	Max: 110		
TCLP METALS					
ARSENIC	0.006	0.005	MG/L		JB
BARIUM	0.80	0.50	MG/L		JB
CADMIUM	<0.003	0.003	MG/L		JB
CHROMIUM	<0.02	0.02	MG/L		JB
LEAD	<0.10	0.10	MG/L		JB
MERCURY	<0.0002	0.0002	MG/L		JB
SELENIUM	<0.005	0.005	MG/L		JB
SILVER	0.014	0.010	MG/L		JB



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Test Description	Result	Limit	Units	Analyzed	By
TCLP ORGANICS ENRON LIST					
BENZENE	<.020	.020	MG/L	10/14/91	SS
CARBON TETRACHLORIDE	<.020	.020	MG/L	10/14/91	SS
CHLOROBENZENE	<.020	.020	MG/L	10/14/91	SS
CHLOROFORM	<.020	.020	MG/L	10/14/91	SS
1,2-DICHLOROETHANE	<.020	.020	MG/L	10/14/91	SS
1,1-DICHLOROETHYLENE	<.020	.020	MG/L	10/14/91	SS
METHYL ETHYL KETONE	<.020	.020	MG/L	10/14/91	SS
TETRACHLOROETHYLENE	<.020	.020	MG/L	10/14/91	SS
TRICHLOROETHYLENE	<.020	.020	MG/L	10/14/91	SS
VINYL CHLORIDE	<.020	.020	MG/L	10/14/91	SS
O-CRESOL	<.001	.001	MG/L	10/14/91	SS
M-CRESOL	<.001	.001	MG/L	10/14/91	SS
P-CRESOL	<.001	.001	MG/L	10/14/91	SS
1,4-DICHLOROBENZENE	<.001	.001	MG/L	10/14/91	SS
2,4-DINITROTOLUENE	<.001	.001	MG/L	10/14/91	SS
HEXACHLOROBENZENE	<.001	.001	MG/L	10/14/91	SS
HEXACHLORO-1,3-BUTADIENE	<.001	.001	MG/L	10/14/91	SS
HEXACHLOROETHANE	<.001	.001	MG/L	10/14/91	SS
NITROBENZENE	<.001	.001	MG/L	10/14/91	SS
PENTACHLOROPHENOL	<.001	.001	MG/L	10/14/91	SS
PYRIDINE	<.001	.001	MG/L	10/14/91	SS
2,4,5-TRICHLOROPHENOL	<.001	.001	MG/L	10/14/91	SS
2,4,6-TRICHLOROPHENOL	<.001	.001	MG/L	10/14/91	SS
Surrogates					
NITROBENZENE-d5	74	Min: 35	Max: 114		
2-FLUOROBIPHENYL	76	Min: 43	Max: 116		
TERPHENYL-d14	78	Min: 33	Max: 141		
PHENOL-d5	19	Min: 10	Max: 94		
2-FLUOROPHENOL	38	Min: 21	Max: 100		



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Test Description
TOTAL REC PET HYDROCARBONSResult
<5.0Units Analyzed By
MG/KG 10/09/91 PV

Sample: 07A BH-19 0.9 - 1.9

Collected:

Test Description
 BENZENE, TOLUENE, EBENZ, XYLE
 BENZENE
 TOLUENE
 ETHYL BENZENE
 XYLENES
 TCLP F SERIES ENRON LIST
 METHYLENE CHLORIDE
 1,1,1-TRICHLOROETHANE
 TRICHLORO-TRIFLUOROETHANE
 ORTHO-DICHLOROBENZENE
 TRICHLOROFLUOROMETHANE
 XYLENE
 ACETONE
 ETHYL ACETATE
 ETHYL BENZENE
 ETHYL ETHER
 METHYL ISOBUTYL KETONE
 n-BUTYL ALCOHOL
 CYCLOHEXANONE
 METHANOL
 CRESYLIC ACID
 TOLUENE
 CARBON DISULFIDE

Result
 <0.1
 <0.1
 <0.1
 0.29

 <.020
 <.020
 <.020
 <.020
 <.020
 <.020
 <10
 <10
 <.020
 <.020
 <.020
 <10
 <.020
 <10
 <.001
 <.020
 <.020

Units Analyzed By
 MG/KG 10/08/91 DD
 MG/KG 10/08/91 DD
 MG/KG 10/08/91 DD
 MG/KG 10/08/91 DD

 MG/L 10/10/91 OS
 MG/L 10/10/91 OS
 MG/L 10/10/91 OS
 MG/L 10/10/91 OS
 MG/L 10/10/91 OS
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 MG/L 10/10/91 OS
 MG/L 10/10/91 OS



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
ISOBUTANOL	<10	10	MG/L	10/10/91	OS
2-ETHOXYETHANOL	<10	10	MG/L	10/10/91	OS
2-NITROPROPANE	<.020	.020	MG/L	10/10/91	OS
Surrogates					
4-BROMOFLUOROBENZENE	109	Min: 86	Max: 115		
1,2-DICHLOROETHANE-d4	124 Q	Min: 76	Max: 114		
TOLUENE-d8	104	Min: 88	Max: 110		
TCCLP METALS					
ARSENIC	<0.005	0.005	MG/L		JB
BARIUM	0.54	0.50	MG/L		JB
CADMIUM	<0.003	0.003	MG/L		JB
CHROMIUM	<0.02	0.02	MG/L		JB
LEAD	<0.10	0.10	MG/L		JB
MERCURY	<0.0002	0.0002	MG/L		JB
SELENIUM	<0.005	0.005	MG/L		JB
SILVER	0.013	0.010	MG/L		JB
TCCLP ORGANICS ENRON LIST					
BENZENE	<.020	.020	MG/L	10/14/91	SS
CARBON TETRACHLORIDE	<.020	.020	MG/L	10/14/91	SS
CHLOROBENZENE	<.020	.020	MG/L	10/14/91	SS
CHLOROFORM	<.020	.020	MG/L	10/14/91	SS
1,2-DICHLOROETHANE	<.020	.020	MG/L	10/14/91	SS
1,1-DICHLOROETHYLENE	<.020	.020	MG/L	10/14/91	SS
METHYL ETHYL KETONE	<.020	.020	MG/L	10/14/91	SS
TETRACHLOROETHYLENE	<.020	.020	MG/L	10/14/91	SS
TRICHLOROETHYLENE	<.020	.020	MG/L	10/14/91	SS
VINYL CHLORIDE	<.020	.020	MG/L	10/14/91	SS
O-CRESOL	<.001	.001	MG/L	10/14/91	SS



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
M-CRESOL	<.001	.001	MG/L	10/14/91	SS
P-CRESOL	<.001	.001	MG/L	10/14/91	SS
1,4-DICHLOROBENZENE	<.001	.001	MG/L	10/14/91	SS
2,4-DINITROTOLUENE	<.001	.001	MG/L	10/14/91	SS
HEXACHLOROBENZENE	<.001	.001	MG/L	10/14/91	SS
HEXACHLORO-1,3-BUTADIENE	<.001	.001	MG/L	10/14/91	SS
HEXACHLOROETHANE	<.001	.001	MG/L	10/14/91	SS
NITROBENZENE	<.001	.001	MG/L	10/14/91	SS
PENTACHLOROPHENOL	<.001	.001	MG/L	10/14/91	SS
PYRIDINE	<.001	.001	MG/L	10/14/91	SS
2,4,5-TRICHLOROPHENOL	<.001	.001	MG/L	10/14/91	SS
2,4,6-TRICHLOROPHENOL	<.001	.001	MG/L	10/14/91	SS
Surrogates					
NITROBENZENE-d5	56	Min: 35	Max: 114		
2-FLUOROBIPHENYL	61	Min: 43	Max: 116		
TERPHENYL-d14	60	Min: 33	Max: 141		
PHENOL-d5	8 Q	Min: 10	Max: 94		
2-FLUOROPHENOL	15 Q	Min: 21	Max: 100		
TOTAL REC PET HYDROCARBONS	33000	5.0	MG/KG	10/09/91	PV

Sample: 08A BH-6 0 - 1.95

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
BENZENE, TOLUENE, EBENZ, XYLE		0.1			
BENZENE	<0.1	0.1	MG/KG	10/08/91	DD
TOLUENE	<0.1	0.1	MG/KG	10/08/91	DD



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
ETHYL BENZENE	0.13	0.1	MG/KG	10/08/91	DD
XYLENES	0.25	0.1	MG/KG	10/08/91	DD
TCLP F SERIES ENRON LIST					
METHYLENE CHLORIDE	<.020	.020	MG/L	10/10/91	OS
1,1,1-TRICHLOROETHANE	<.020	.020	MG/L	10/10/91	OS
TRICHLORO-TRIFLUOROETHANE	<.020	.020	MG/L	10/10/91	OS
ORTHO-DICHLOROBENZENE	<.020	.020	MG/L	10/10/91	OS
TRICHLOROFLUOROMETHANE	<.020	.020	MG/L	10/10/91	OS
XYLENE	<.020	.020	MG/L	10/10/91	OS
ACETONE	<10	10	MG/L	10/10/91	OS
ETHYL ACETATE	<10	10	MG/L	10/10/91	OS
ETHYL BENZENE	<.020	.020	MG/L	10/10/91	OS
ETHYL ETHER	<.020	.020	MG/L	10/10/91	OS
METHYL ISOBUTYL KETONE	<.020	.020	MG/L	10/10/91	OS
n-BUTYL ALCOHOL	<10	10	MG/L	10/10/91	OS
CYCLOHEXANONE	<.020	.020	MG/L	10/10/91	OS
METHANOL	<10	10	MG/L	10/10/91	OS
CRESYLIC ACID	<.001	.001	MG/L	10/10/91	OS
TOLUENE	<.020	.020	MG/L	10/10/91	OS
CARBON DISULFIDE	<.020	.020	MG/L	10/10/91	OS
ISOBUTANOL	<10	10	MG/L	10/10/91	OS
2-ETHOXYETHANOL	<10	10	MG/L	10/10/91	OS
2-NITROPROPANE	<.020	.020	MG/L	10/10/91	OS
Surrogates					
4-BROMOFLUOROBENZENE	112	Min: 86	Max: 115		
1,2-DICHLOROETHANE-d4	118 Q	Min: 76	Max: 114		
TOLUENE-d8	101	Min: 88	Max: 110		
TCLP METALS					



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
ARSENIC	0.006	0.005	MG/L		JB
BARIUM	<0.50	0.50	MG/L		JB
CADMIUM	<0.003	0.003	MG/L		JB
CHROMIUM	0.04	0.02	MG/L		JB
LEAD	<0.10	0.10	MG/L		JB
MERCURY	<0.0002	0.0002	MG/L		JB
SELENIUM	<0.005	0.005	MG/L		JB
SILVER	0.026	0.010	MG/L		JB
TCPLP ORGANICS ENRON LIST					
BENZENE	<.020	.020	MG/L	10/14/91	SS
CARBON TETRACHLORIDE	<.020	.020	MG/L	10/14/91	SS
CHLOROBENZENE	<.020	.020	MG/L	10/14/91	SS
CHLOROFORM	<.020	.020	MG/L	10/14/91	SS
1,2-DICHLOROETHANE	<.020	.020	MG/L	10/14/91	SS
1,1-DICHLOROETHYLENE	<.020	.020	MG/L	10/14/91	SS
METHYL ETHYL KETONE	<.020	.020	MG/L	10/14/91	SS
TETRACHLOROETHYLENE	<.020	.020	MG/L	10/14/91	SS
TRICHLOROETHYLENE	<.020	.020	MG/L	10/14/91	SS
VINYL CHLORIDE	<.020	.020	MG/L	10/14/91	SS
O-CRESOL	<.001	.001	MG/L	10/14/91	SS
M-CRESOL	<.001	.001	MG/L	10/14/91	SS
P-CRESOL	<.001	.001	MG/L	10/14/91	SS
1,4-DICHLOROBENZENE	<.001	.001	MG/L	10/14/91	SS
2,4-DINITROTOLUENE	<.001	.001	MG/L	10/14/91	SS
HEXACHLOROBENZENE	<.001	.001	MG/L	10/14/91	SS
HEXACHLORO-1,3-BUTADIENE	<.001	.001	MG/L	10/14/91	SS
HEXACHLOROETHANE	<.001	.001	MG/L	10/14/91	SS
NITROBENZENE	<.001	.001	MG/L	10/14/91	SS



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
PENTACHLOROPHENOL	<.001	.001	MG/L	10/14/91	SS
PYRIDINE	<.001	.001	MG/L	10/14/91	SS
2,4,5-TRICHLOROPHENOL	<.001	.001	MG/L	10/14/91	SS
2,4,6-TRICHLOROPHENOL	<.001	.001	MG/L	10/14/91	SS
Surrogates					
NITROBENZENE-d5	54	Min: 35	Max: 114		
2-FLUOROBIPHENYL	57	Min: 43	Max: 116		
TERPHENYL-d14	54	Min: 33	Max: 141		
PHENOL-d5	10	Min: 10	Max: 94		
2-FLUOROPHENOL	16 Q	Min: 21	Max: 100		
TOTAL REC PET HYDROCARBONS	5400	5.0	MG/KG	10/09/91	PV

Sample: 09A BH-8 0 - 1.3

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
BENZENE, TOLUENE, EBENZ, XYLE		0.1			
BENZENE	<0.1	0.1	MG/KG	10/08/91	DD
TOLUENE	<0.1	0.1	MG/KG	10/08/91	DD
ETHYL BENZENE	<0.1	0.1	MG/KG	10/08/91	DD
XYLENES	<0.1	0.1	MG/KG	10/08/91	DD
TCLP F SERIES ENRON LIST					
METHYLENE CHLORIDE	<.020	.020	MG/L	10/10/91	OS
1,1,1-TRICHLOROETHANE	<.020	.020	MG/L	10/10/91	OS
TRICHLORO-TRIFLUOROETHANE	<.020	.020	MG/L	10/10/91	OS
ORTHO-DICHLOROBENZENE	<.020	.020	MG/L	10/10/91	OS
TRICHLOROFLUOROMETHANE	<.020	.020	MG/L	10/10/91	OS



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Test Description	Result	Limit	Units	Analyzed	By
XYLENE	<.020	.020	MG/L	10/10/91	OS
ACETONE	<10	10	MG/L	10/10/91	OS
ETHYL ACETATE	<10	10	MG/L	10/10/91	OS
ETHYL BENZENE	<.020	.020	MG/L	10/10/91	OS
ETHYL ETHER	<.020	.020	MG/L	10/10/91	OS
METHYL ISOBUTYL KETONE	<.020	.020	MG/L	10/10/91	OS
n-BUTYL ALCOHOL	<10	10	MG/L	10/10/91	OS
CYCLOHEXANONE	<.020	.020	MG/L	10/10/91	OS
METHANOL	<10	10	MG/L	10/10/91	OS
CRESYLIC ACID	<.001	.001	MG/L	10/10/91	OS
TOLUENE	<.020	.020	MG/L	10/10/91	OS
CARBON DISULFIDE	<.020	.020	MG/L	10/10/91	OS
ISOBUTANOL	<10	10	MG/L	10/10/91	OS
2-ETHOXYETHANOL	<10	10	MG/L	10/10/91	OS
2-NITROPROPANE	<.020	.020	MG/L	10/10/91	OS
Surrogates					
4-BROMOFLUOROBENZENE	112	Min: 86	Max: 115		
1,2-DICHLOROETHANE-d4	110	Min: 76	Max: 114		
TOLUENE-d8	100	Min: 88	Max: 110		
TCLP METALS					
ARSENIC	<0.005	0.005	MG/L		JB
BARIUM	0.65	0.50	MG/L		JB
CADMIUM	<0.003	0.003	MG/L		JB
CHROMIUM	<0.02	0.02	MG/L		JB
LEAD	<0.10	0.10	MG/L		JB
MERCURY	<0.0002	0.0002	MG/L		JB
SELENIUM	<0.005	0.005	MG/L		JB
SILVER	0.019	0.010	MG/L		JB



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
TCLP ORGANICS ENRON LIST					
BENZENE	<.020	.020	MG/L	10/14/91	SS
CARBON TETRACHLORIDE	<.020	.020	MG/L	10/14/91	SS
CHLOROBENZENE	<.020	.020	MG/L	10/14/91	SS
CHLOROFORM	<.020	.020	MG/L	10/14/91	SS
1,2-DICHLOROETHANE	<.020	.020	MG/L	10/14/91	SS
1,1-DICHLOROETHYLENE	<.020	.020	MG/L	10/14/91	SS
METHYL ETHYL KETONE	<.020	.020	MG/L	10/14/91	SS
TETRACHLOROETHYLENE	<.020	.020	MG/L	10/14/91	SS
TRICHLOROETHYLENE	<.020	.020	MG/L	10/14/91	SS
VINYL CHLORIDE	<.020	.020	MG/L	10/14/91	SS
O-CRESOL	<.001	.001	MG/L	10/14/91	SS
M-CRESOL	<.001	.001	MG/L	10/14/91	SS
P-CRESOL	<.001	.001	MG/L	10/14/91	SS
1,4-DICHLOROBENZENE	<.001	.001	MG/L	10/14/91	SS
2,4-DINITROTOLUENE	<.001	.001	MG/L	10/14/91	SS
HEXACHLOROBENZENE	<.001	.001	MG/L	10/14/91	SS
HEXACHLORO-1,3-BUTADIENE	<.001	.001	MG/L	10/14/91	SS
HEXACHLOROETHANE	<.001	.001	MG/L	10/14/91	SS
NITROBENZENE	<.001	.001	MG/L	10/14/91	SS
PENTACHLOROPHENOL	<.001	.001	MG/L	10/14/91	SS
PYRIDINE	<.001	.001	MG/L	10/14/91	SS
2,4,5-TRICHLOROPHENOL	<.001	.001	MG/L	10/14/91	SS
2,4,6-TRICHLOROPHENOL	<.001	.001	MG/L	10/14/91	SS
Surrogates					
NITROBENZENE-d5	49	Min: 35	Max: 114		
2-FLUOROBIPHENYL	57	Min: 43	Max: 116		
TERPHENYL-d14	N/A	Min: N/A	Max: N/A		
PHENOL-d5	11	Min: 10	Max: 94		
2-FLUOROPHENOL	21	Min: 21	Max: 100		



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Test Description
TOTAL REC PET HYDROCARBONS

Result
180

Units
MG/KG

Analyzed
10/09/91

By
PV

Sample: 10A BH-4 21.3 - 21.7

Collected:

Test Description
BENZENE, TOLUENE, EBENZ, XYLE

Result
<0.1

Units
MG/KG

Analyzed
10/08/91

By
DD

BENZENE
TOLUENE
ETHYL BENZENE
XYLENES

<0.1
<0.1
<0.1
<0.1

MG/KG
MG/KG
MG/KG
MG/KG

10/08/91
10/08/91
10/08/91
10/08/91

DD
DD
DD
DD

TCLP F SERIES ENRON LIST

METHYLENE CHLORIDE
1,1,1-TRICHLOROETHANE
TRICHLORO-TRIFLUOROETHANE
ORTHO-DICHLOROBENZENE
TRICHLOROFLUOROMETHANE
XYLENE

<.020
<.020
<.020
<.020
<.020
<.020

MG/L
MG/L
MG/L
MG/L
MG/L
MG/L

10/10/91
10/10/91
10/10/91
10/10/91
10/10/91
10/10/91

OS
OS
OS
OS
OS
OS

ACETONE
ETHYL ACETATE
ETHYL BENZENE
ETHYL ETHER

<10
<10
<.020
<.020
<.020

MG/L
MG/L
MG/L
MG/L
MG/L

10/10/91
10/10/91
10/10/91
10/10/91
10/10/91

OS
OS
OS
OS
OS

METHYL ISOBUTYL KETONE
n-BUTYL ALCOHOL

<.020
<10

MG/L
MG/L

10/10/91
10/10/91

OS
OS

CYCLOHEXANONE
METHANOL

<.020
<10

MG/L
MG/L

10/10/91
10/10/91

OS
OS

CRESYLIC ACID
TOLUENE

<.001
<.020

MG/L
MG/L

10/10/91
10/10/91

OS
OS

CARBON DISULFIDE

<.020

MG/L

10/10/91

OS



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Test Description	Result	Limit	Units	Analyzed	By
ISOBUTANOL	<10	10	MG/L	10/10/91	OS
2-ETHOXYETHANOL	<10	10	MG/L	10/10/91	OS
2-NITROPROPANE	<.020	.020	MG/L	10/10/91	OS
Surrogates					
4-BROMOFLUOROBENZENE	116 Q	Min: 86	Max: 115		
1,2-DICHLOROETHANE-d4	122 Q	Min: 76	Max: 114		
TOLUENE-d8	100	Min: 88	Max: 110		
TCLP METALS					
ARSENIC	<0.005	0.005	MG/L		JB
BARIUM	0.78	0.50	MG/L		JB
CADMIUM	<0.003	0.003	MG/L		JB
CHROMIUM	<0.02	0.02	MG/L		JB
LEAD	<0.10	0.10	MG/L		JB
MERCURY	<0.0002	0.0002	MG/L		JB
SELENIUM	<0.005	0.005	MG/L		JB
SILVER	<0.010	0.010	MG/L		JB
TCLP ORGANICS ENRON LIST					
BENZENE	<.020	.020	MG/L	10/15/91	SS
CARBON TETRACHLORIDE	<.020	.020	MG/L	10/15/91	SS
CHLOROBENZENE	<.020	.020	MG/L	10/15/91	SS
CHLOROFORM	<.020	.020	MG/L	10/15/91	SS
1,2-DICHLOROETHANE	<.020	.020	MG/L	10/15/91	SS
1,1-DICHLOROETHYLENE	<.020	.020	MG/L	10/15/91	SS
METHYL ETHYL KETONE	<.020	.020	MG/L	10/15/91	SS
TETRACHLOROETHYLENE	<.020	.020	MG/L	10/15/91	SS
TRICHLOROETHYLENE	<.020	.020	MG/L	10/15/91	SS
VINYL CHLORIDE	<.020	.020	MG/L	10/15/91	SS
O-CRESOL	<.001	.001	MG/L	10/15/91	SS

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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
M-CRESOL	<.001	.001	MG/L	10/15/91	SS
P-CRESOL	<.001	.001	MG/L	10/15/91	SS
1,4-DICHLOROBENZENE	<.001	.001	MG/L	10/15/91	SS
2,4-DINITROTOLUENE	<.001	.001	MG/L	10/15/91	SS
HEXACHLOROBENZENE	<.001	.001	MG/L	10/15/91	SS
HEXACHLORO-1,3-BUTADIENE	<.001	.001	MG/L	10/15/91	SS
HEXACHLOROETHANE	<.001	.001	MG/L	10/15/91	SS
NITROBENZENE	<.001	.001	MG/L	10/15/91	SS
PENTACHLOROPHENOL	<.001	.001	MG/L	10/15/91	SS
PYRIDINE	<.001	.001	MG/L	10/15/91	SS
2,4,5-TRICHLOROPHENOL	<.001	.001	MG/L	10/15/91	SS
2,4,6-TRICHLOROPHENOL	<.001	.001	MG/L	10/15/91	SS
Surrogates					
NITROBENZENE-d5	65	Min: 35	Max: 114		
2-FLUOROBIPHENYL	72	Min: 43	Max: 116		
TERPHENYL-d14	N/A	Min: N/A	Max: N/A		
PHENOL-d5	13	Min: 10	Max: 94		
2-FLUOROPHENOL	25	Min: 21	Max: 100		
TOTAL REC PET HYDROCARBONS	<5.0	5.0	MG/KG	10/09/91	PV
Sample: 11A BH-19 21.5 - 22.0	Collected:				
<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
BENZENE, TOLUENE, EBENZ, XYLE		0.1			
BENZENE	<0.1	0.1	MG/KG	10/09/91	DD
TOLUENE	<0.1	0.1	MG/KG	10/09/91	DD



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Test Description	Result	Limit	Units	Analyzed	By
ETHYL BENZENE	<0.1	0.1	MG/KG	10/09/91	DD
XYLENES	<0.1	0.1	MG/KG	10/09/91	DD
TCLP F SERIES ENRON LIST					
METHYLENE CHLORIDE	<.020	.020	MG/L	10/10/91	OS
1,1,1-TRICHLOROETHANE	<.020	.020	MG/L	10/10/91	OS
TRICHLORO-TRIFLUOROETHANE	<.020	.020	MG/L	10/10/91	OS
ORTHO-DICHLOROBENZENE	<.020	.020	MG/L	10/10/91	OS
TRICHLOROFLUOROMETHANE	<.020	.020	MG/L	10/10/91	OS
XYLENE	<.020	.020	MG/L	10/10/91	OS
ACETONE	<10	10	MG/L	10/10/91	OS
ETHYL ACETATE	<10	10	MG/L	10/10/91	OS
ETHYL BENZENE	<.020	.020	MG/L	10/10/91	OS
ETHYL ETHER	<.020	.020	MG/L	10/10/91	OS
METHYL ISOBUTYL KETONE	<.020	.020	MG/L	10/10/91	OS
n-BUTYL ALCOHOL	<10	10	MG/L	10/10/91	OS
CYCLOHEXANONE	<.020	.020	MG/L	10/10/91	OS
METHANOL	<10	10	MG/L	10/10/91	OS
CRESYLIC ACID	<.001	.001	MG/L	10/10/91	OS
TOLUENE	<.020	.020	MG/L	10/10/91	OS
CARBON DISULFIDE	<.020	.020	MG/L	10/10/91	OS
ISOBUTANOL	<10	10	MG/L	10/10/91	OS
2-ETHOXYETHANOL	<10	10	MG/L	10/10/91	OS
2-NITROPROPANE	<.020	.020	MG/L	10/10/91	OS
Surrogates					
4-BROMOFLUOROBENZENE	109	Min: 86	Max: 115		
1,2-DICHLOROETHANE-d4	113	Min: 76	Max: 114		
TOLUENE-d8	102	Min: 88	Max: 110		
TCLP METALS					



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
ARSENIC	0.012	0.005	MG/L		JB
BARIUM	<0.50	0.50	MG/L		JB
CADMIUM	<0.003	0.003	MG/L		JB
CHROMIUM	0.07	0.02	MG/L		JB
LEAD	<0.10	0.10	MG/L		JB
MERCURY	<0.0002	0.0002	MG/L		JB
SELENIUM	<0.005	0.005	MG/L		JB
SILVER	0.029	0.010	MG/L		JB
TCCLP ORGANICS ENRON LIST					
BENZENE	<.020	.020	MG/L	10/15/91	SS
CARBON TETRACHLORIDE	<.020	.020	MG/L	10/15/91	SS
CHLOROBENZENE	<.020	.020	MG/L	10/15/91	SS
CHLOROFORM	<.020	.020	MG/L	10/15/91	SS
1,2-DICHLOROETHANE	<.020	.020	MG/L	10/15/91	SS
1,1-DICHLOROETHYLENE	<.020	.020	MG/L	10/15/91	SS
METHYL ETHYL KETONE	<.020	.020	MG/L	10/15/91	SS
TETRACHLOROETHYLENE	<.020	.020	MG/L	10/15/91	SS
TRICHLOROETHYLENE	<.020	.020	MG/L	10/15/91	SS
VINYL CHLORIDE	<.020	.020	MG/L	10/15/91	SS
O-CRESOL	<.001	.001	MG/L	10/15/91	SS
M-CRESOL	<.001	.001	MG/L	10/15/91	SS
P-CRESOL	<.001	.001	MG/L	10/15/91	SS
1,4-DICHLOROBENZENE	<.001	.001	MG/L	10/15/91	SS
2,4-DINITROTOLUENE	<.001	.001	MG/L	10/15/91	SS
HEXACHLOROBENZENE	<.001	.001	MG/L	10/15/91	SS
HEXACHLORO-1,3-BUTADIENE	<.001	.001	MG/L	10/15/91	SS
HEXACHLOROETHANE	<.001	.001	MG/L	10/15/91	SS
NITROBENZENE	<.001	.001	MG/L	10/15/91	SS



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
PENTACHLOROPHENOL	<.001	.001	MG/L	10/15/91	SS
PYRIDINE	<.001	.001	MG/L	10/15/91	SS
2,4,5-TRICHLOROPHENOL	<.001	.001	MG/L	10/15/91	SS
2,4,6-TRICHLOROPHENOL	<.001	.001	MG/L	10/15/91	SS
Surrogates					
NITROBENZENE-d5	50	Min: 35	Max: 114		
2-FLUOROBIPHENYL	64	Min: 43	Max: 116		
TERPHENYL-d14	N/A	Min: N/A	Max: N/A		
PHENOL-d5	21	Min: 10	Max: 94		
2-FLUOROPHENOL	30	Min: 21	Max: 100		
TOTAL REC PET HYDROCARBONS	<5.0	5.0	MG/KG	10/09/91	PV

Sample: 12A BH-4 8.7 - 9.7

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
BENZENE, TOLUENE, EBENZ, XYLE		0.1			
BENZENE	<0.1	0.1	MG/KG	10/09/91	DD
TOLUENE	<0.1	0.1	MG/KG	10/09/91	DD
ETHYL BENZENE	<0.1	0.1	MG/KG	10/09/91	DD
XYLENES	<0.1	0.1	MG/KG	10/09/91	DD
TCCLP F SERIES ENRON LIST					
METHYLENE CHLORIDE	<.020	.020	MG/L	10/10/91	OS
1,1,1-TRICHLOROETHANE	<.020	.020	MG/L	10/10/91	OS
TRICHLORO-TRIFLUOROETHANE	<.020	.020	MG/L	10/10/91	OS
ORTHO-DICHLOROBENZENE	<.020	.020	MG/L	10/10/91	OS
TRICHLOROFLUOROMETHANE	<.020	.020	MG/L	10/10/91	OS



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Test Description	Result	Limit	Units	Analyzed	By
XYLENE	<.020	.020	MG/L	10/10/91	OS
ACETONE	<10	10	MG/L	10/10/91	OS
ETHYL ACETATE	<10	10	MG/L	10/10/91	OS
ETHYL BENZENE	<.020	.020	MG/L	10/10/91	OS
ETHYL ETHER	<.020	.020	MG/L	10/10/91	OS
METHYL ISOBUTYL KETONE	<.020	.020	MG/L	10/10/91	OS
n-BUTYL ALCOHOL	<10	10	MG/L	10/10/91	OS
CYCLOHEXANONE	<.020	.020	MG/L	10/10/91	OS
METHANOL	<10	10	MG/L	10/10/91	OS
CRESYLIC ACID	<.001	.001	MG/L	10/10/91	OS
TOLUENE	<.020	.020	MG/L	10/10/91	OS
CARBON DISULFIDE	<.020	.020	MG/L	10/10/91	OS
ISOBUTANOL	<10	10	MG/L	10/10/91	OS
2-ETHOXYETHANOL	<10	10	MG/L	10/10/91	OS
2-NITROPROPANE	<.020	.020	MG/L	10/10/91	OS
Surrogates					
4-BROMOFLUOROBENZENE	113	Min: 86	Max: 115		
1,2-DICHLOROETHANE-d4	104	Min: 76	Max: 114		
TOLUENE-d8	98	Min: 88	Max: 110		
TCCLP METALS					
ARSENIC	<0.005	0.005	MG/L		JB
BARIUM	1.37	0.50	MG/L		JB
CADMIUM	<0.003	0.003	MG/L		JB
CHROMIUM	<0.02	0.02	MG/L		JB
LEAD	<0.10	0.10	MG/L		JB
MERCURY	<0.0002	0.0002	MG/L		JB
SELENIUM	<0.005	0.005	MG/L		JB
SILVER	0.010	0.010	MG/L		JB



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Test Description	Result	Limit	Units	Analyzed	By
TCLP ORGANICS ENRON LIST					
BENZENE	<.020	.020	MG/L	10/15/91	SS
CARBON TETRACHLORIDE	<.020	.020	MG/L	10/15/91	SS
CHLOROBENZENE	<.020	.020	MG/L	10/15/91	SS
CHLOROFORM	<.020	.020	MG/L	10/15/91	SS
1,2-DICHLOROETHANE	<.020	.020	MG/L	10/15/91	SS
1,1-DICHLOROETHYLENE	<.020	.020	MG/L	10/15/91	SS
METHYL ETHYL KETONE	<.020	.020	MG/L	10/15/91	SS
TETRACHLOROETHYLENE	<.020	.020	MG/L	10/15/91	SS
TRICHLOROETHYLENE	<.020	.020	MG/L	10/15/91	SS
VINYL CHLORIDE	<.020	.020	MG/L	10/15/91	SS
O-CRESOL	<.001	.001	MG/L	10/15/91	SS
M-CRESOL	<.001	.001	MG/L	10/15/91	SS
P-CRESOL	<.001	.001	MG/L	10/15/91	SS
1,4-DICHLOROBENZENE	<.001	.001	MG/L	10/15/91	SS
2,4-DINITROTOLUENE	<.001	.001	MG/L	10/15/91	SS
HEXACHLOROBENZENE	<.001	.001	MG/L	10/15/91	SS
HEXACHLORO-1,3-BUTADIENE	<.001	.001	MG/L	10/15/91	SS
HEXACHLOROETHANE	<.001	.001	MG/L	10/15/91	SS
NITROBENZENE	<.001	.001	MG/L	10/15/91	SS
PENTACHLOROPHENOL	<.001	.001	MG/L	10/15/91	SS
PYRIDINE	<.001	.001	MG/L	10/15/91	SS
2,4,5-TRICHLOROPHENOL	<.001	.001	MG/L	10/15/91	SS
2,4,6-TRICHLOROPHENOL	<.001	.001	MG/L	10/15/91	SS
Surrogates					
NITROBENZENE-d5	65	Min: 35	Max: 114		
2-FLUOROBIPHENYL	73	Min: 43	Max: 116		
TERPHENYL-d14	67	Min: 33	Max: 141		
PHENOL-d5	14	Min: 10	Max: 94		
2-FLUOROPHENOL	25	Min: 21	Max: 100		



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Test Description
TOTAL REC PET HYDROCARBONS

Result
<5.0

Limit
5.0

Units Analyzed By
MG/KG 10/09/91 PV



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REGULAR TEST RESULTS BY TEST

TOTAL REC PET HYDROCARBONS
Method: EPA 418.1

Minimum: 5.0 Maximum: 100

Sample	Sample Description	Result	Units	Extracted	Analyzed	By
01A	BH-3 50.1 - 50.4	<5.0	MG/KG	10/09/91	10/09/91	PV
02A	BH-9 0 - 2.5	6000	MG/KG	10/09/91	10/09/91	PV
03A	BH-4 29.6 - 29.9	<5.0	MG/KG	10/09/91	10/09/91	PV
04A	BH-7 0 - 1.1	14000	MG/KG	10/09/91	10/09/91	PV
05A	BH-5 0 - 2.3	200	MG/KG	10/09/91	10/09/91	PV
06A	BH-3 30.4 - 30.7	<5.0	MG/KG	10/09/91	10/09/91	PV
07A	BH-19 0.9 - 1.9	33000	MG/KG	10/09/91	10/09/91	PV
08A	BH-6 0 - 1.95	5400	MG/KG	10/09/91	10/09/91	PV
09A	BH-8 0 - 1.3	180	MG/KG	10/09/91	10/09/91	PV
10A	BH-4 21.3 - 21.7	<5.0	MG/KG	10/09/91	10/09/91	PV
11A	BH-19 21.5 - 22.0	<5.0	MG/KG	10/09/91	10/09/91	PV
12A	BH-4 8.7 - 9.7	<5.0	MG/KG	10/09/91	10/09/91	PV



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TEST METHODOLOGIES

TCLP METALS: USEPA 200 SERIES METHODOLOGY

TCLP EXTRACTION: USEPA METHOD # 1311

BENZENE, TOLUENE, ETHYLBENZENE, XYLENES: USEPA METHOD # 602/8020

USEPA METHOD # 418.1



TRANSWESTERN PIPELINE/ENRON
CLIENT LOG-IN PROBLEMS/INCONSISTENCIES

DATE RECEIVED: 10/1/91 WO #: 8416/

DISTRICT: 4665 S/60 CONTACT: Mila Kneese

PROBLEMS/INCONSISTENCIES ON CHAIN OF CUSTODY (COC):

NO CHAIN OF CUSTODY INCLUDED WITH SAMPLES..... ☐

DISTRICT LEFT BLANK..... ☐

DATE SAMPLED LEFT BLANK..... ☒

NO ANALYTES REQUESTED..... ☐

ILLEGIBLE HANDWRITING..... ☐

SAMPLE SITE LEFT BLANK..... ☒

TURN AROUND TIME NOT INDICATED..... ☒

SAMPLE ID ON CONTAINER & COC INCONSISTENT..... ☐

CHAIN OF CUSTODY NOT RELINQUISHED..... ☐

SAMPLES RECEIVED DAMAGED..... ☐

SAMPLES RECEIVED UNSEALED..... ☐

COMMENTS: _____

SAMPLES LOGGED IN BY: CJF

TRANSWESTERN PIPELINE COMPANY

CHAIN OF CUSTODY

District: Hobbs 5160

Date: 9/30/91

Sample Location
Valve or Receiver No.

Vol. Collect.
During Flush

Sampler

SAMPLE ID NUMBER	SOLVENT USED	SAMPLE ICED	ANALYSES REQUESTED
BH-1921.6-22.0	—	yes	TRPH/BTX/ITCLP-O-M-F
BH-4 8.7-9.7	—	yes	TRPH/BTX/ITCLP-O-M-F

Relinquished By Michael N. Kuse Date 9-30-91
 Relinquished To Federal Express Date 9-30-91

Relinquished By _____ Date _____
 Relinquished To _____ Date _____

Relinquished By _____ Date _____
 Relinquished To _____ Date _____

Relinquished By _____ Date _____
 Relinquished By _____ Date _____

Laboratory: Assagai
 Received: AKG Date 10/1/91

TRANSWESTERN PIPELINE COMPANY

CHAIN OF CUSTODY

District: Hobbs 5160

Date: 9-30-91

Sample Location
Valve or Receiver No.

Vol. Collect.
During Flush

Sampler

SAMPLE ID NUMBER	SOLVENT USED	SAMPLE ICED	ANALYSES REQUESTED
BH-3 50.1-50.4	—	yes	TRPH/BTEX/TCLP-O-M-F
BH-9 0-2.5'	—	yes	TRPH/BTEX/TCLP-O-M-F
BH-4 29.6-29.9	—	yes	TRPH/BTEX/TCLP-O-M-F
BH-7 0-1.1	—	yes	TRPH/BTEX/TCLP-O-M-F
BH-5 0-2.3'	—	yes	TRPH/BTEX/TCLP-O-M-F
BH-3 30.4-30.7	—	yes	TRPH/BTEX/TCLP-O-M-F
BH-19 0.9-1.9	—	yes	TRPH/BTEX/TCLP-O-M-F
BH-6 0-1.95	—	yes	TRPH/BTEX/TCLP-O-M-F
BH-8 0-1.3	—	yes	TRPH/BTEX/TCLP-O-M-F
BH-4 21.3-21.7	—	yes	TRPH/BTEX/TCLP-O-M-F

Relinquished By Michael N Kneese Date 9-30-91
 Relinquished To Federal Express Date 9-30-91

Relinquished By _____ Date _____
 Relinquished To _____ Date _____

Relinquished By _____ Date _____
 Relinquished To _____ Date _____

Relinquished By _____ Date _____
 Relinquished By _____ Date _____

Laboratory: Assaigai Date 10/1/91
 Received: 277

Assaigai Analytical Labs
7300 Jefferson NE
Albuquerque, NM 87109

Attn: SYED RIZVI
Phone: (505) 345-8964

ENRON/TRANSWESTERN PIPELINE
HOBBS PLANT
2626 WEST MARLAND
HOBBS, NM 88240
Attn: MIKE KNEESE
Invoice Number: 912272

Order #: 91-10-007
Date: 10/16/91 09:45
Work ID: HOBBS 5160
Date Received: 10/01/91
Date Completed: 10/16/91

8414

SAMPLE IDENTIFICATION

<u>Sample Number</u>	<u>Sample Description</u>
01	BH-14 1.0 - 2.8
03	BH-12 0.8 - 2.1
05	BH-4 0 - 2.6
07	BH-13 1.0 - 2.7
09	BH-15 0.7 - 1.4
11	BH-14 3.1 - 4.4

<u>Sample Number</u>	<u>Sample Description</u>
02	BH-4 51.0 - 51.3
04	BH-11 1.0 - 2.8
06	BH-10 0 - 2.0
08	BH-18 0.5 - 2.6
10	BH-16 0 - 1.2
12	BH-17 0.2 - 0.9



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QUESTIONS ABOUT THIS REPORT SHOULD BE ADDRESSED TO:
LABORATORY OPERATIONS MANAGER/ASSAIGAI ANALYTICAL
7300 JEFFERSON N.E., ALBUQUERQUE, N.M. 87109



Certified By
SYED N. RIZVI



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TEST RESULTS BY SAMPLE

Sample: 01A BH-14 1.0 - 2.8

Collected:

Test Description	Result	Limit	Units	Analyzed	By
BENZENE, TOLUENE, EBENZ, XYLE		0.1			
BENZENE	<0.1	0.1	MG/KG	10/07/91	DD
TOLUENE	<0.1	0.1	MG/KG	10/07/91	DD
ETHYL BENZENE	0.36	0.1	MG/KG	10/07/91	DD
XYLENES	0.53	0.1	MG/KG	10/07/91	DD
TCLP F SERIES ENRON LIST					
METHYLENE CHLORIDE	<.020	.020	MG/L	10/08/91	OS
1,1,1-TRICHLOROETHANE	<.020	.020	MG/L	10/08/91	OS
TRICHLORO-TRIFLUOROETHANE	<.020	.020	MG/L	10/08/91	OS
ORTHO-DICHLOROBENZENE	<.020	.020	MG/L	10/08/91	OS
TRICHLOROFLUOROMETHANE	<.020	.020	MG/L	10/08/91	OS
XYLENE	<.020	.020	MG/L	10/08/91	OS
ACETONE	<10	10	MG/L	10/08/91	OS
ETHYL ACETATE	<10	10	MG/L	10/08/91	OS
ETHYL BENZENE	<.020	.020	MG/L	10/08/91	OS
ETHYL ETHER	<.020	.020	MG/L	10/08/91	OS
METHYL ISOBUTYL KETONE	<.020	.020	MG/L	10/08/91	OS
n-BUTYL ALCOHOL	<10	10	MG/L	10/08/91	OS
CYCLOHEXANONE	<.020	.020	MG/L	10/08/91	OS
METHANOL	<10	10	MG/L	10/08/91	OS
CRESYLIC ACID	<.001	.001	MG/L	10/08/91	OS
TOLUENE	<.020	.020	MG/L	10/08/91	OS
CARBON DISULFIDE	<.020	.020	MG/L	10/08/91	OS

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Test Description	Result	Limit	Units	Analyzed	By
ISOBUTANOL	<10	10	MG/L	10/08/91	OS
2-ETHOXYETHANOL	<10	10	MG/L	10/08/91	OS
2-NITROPROPANE	<.020	.020	MG/L	10/08/91	OS
Surrogates					
4-BROMOFLUOROBENZENE	100	Min: 86	Max: 115		
1,2-DICHLOROETHANE-d4	136 Q	Min: 76	Max: 114		
TOLUENE-d8	99	Min: 88	Max: 110		
TCLP METALS					
ARSENIC	<0.005	0.005	MG/L		JC
BARIUM	0.59	0.50	MG/L		JC
CADMIUM	0.013	0.003	MG/L		JC
CHROMIUM	0.03	0.02	MG/L		JC
LEAD	0.13	0.10	MG/L		JC
MERCURY	<0.0002	0.0002	MG/L		JC
SELENIUM	<0.005	0.005	MG/L		JC
SILVER	<0.010	0.010	MG/L		JC
TCLP ORGANICS ENRON LIST					
BENZENE	<.020	.020	MG/L	10/08/91	SS
CARBON TETRACHLORIDE	<.020	.020	MG/L	10/08/91	SS
CHLOROBENZENE	<.020	.020	MG/L	10/08/91	SS
CHLOROFORM	<.020	.020	MG/L	10/08/91	SS
1,2-DICHLOROETHANE	<.020	.020	MG/L	10/08/91	SS
1,1-DICHLOROETHYLENE	<.020	.020	MG/L	10/08/91	SS
METHYL ETHYL KETONE	<.020	.020	MG/L	10/08/91	SS
TETRACHLOROETHYLENE	<.020	.020	MG/L	10/08/91	SS
TRICHLOROETHYLENE	<.020	.020	MG/L	10/08/91	SS
VINYL CHLORIDE	<.020	.020	MG/L	10/08/91	SS
O-CRESOL	<.001	.001	MG/L	10/08/91	SS



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Test Description	Result	Limit	Units	Analyzed	By
M-CRESOL	<.001	.001	MG/L	10/08/91	SS
P-CRESOL	<.001	.001	MG/L	10/08/91	SS
1,4-DICHLOROBENZENE	<.001	.001	MG/L	10/08/91	SS
2,4-DINITROTOLUENE	<.001	.001	MG/L	10/08/91	SS
HEXACHLOROBENZENE	<.001	.001	MG/L	10/08/91	SS
HEXACHLORO-1,3-BUTADIENE	<.001	.001	MG/L	10/08/91	SS
HEXACHLOROETHANE	<.001	.001	MG/L	10/08/91	SS
NITROBENZENE	<.001	.001	MG/L	10/08/91	SS
PENTACHLOROPHENOL	<.001	.001	MG/L	10/08/91	SS
PYRIDINE	<.001	.001	MG/L	10/08/91	SS
2,4,5-TRICHLOROPHENOL	<.001	.001	MG/L	10/08/91	SS
2,4,6-TRICHLOROPHENOL	<.001	.001	MG/L	10/08/91	SS
Surrogates					
NITROBENZENE-d5	76	Min: 35	Max: 114		
2-FLUOROBIPHENYL	99	Min: 43	Max: 116		
TERPHENYL-d14	52	Min: 33	Max: 141		
PHENOL-d5	86	Min: 10	Max: 94		
2-FLUOROPHENOL	111 Q	Min: 21	Max: 100		
TOTAL REC PET HYDROCARBONS	1600	5.0	MG/KG	10/14/91	PV

Collected:

Sample: 02A BH-4 51.0 - 51.3

Test Description	Result	Limit	Units	Analyzed	By
BENZENE, TOLUENE, EBENZ, XYLE		0.1			
BENZENE	<0.1	0.1	MG/KG	10/07/91	DD
TOLUENE	<0.1	0.1	MG/KG	10/07/91	DD



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Test Description	Result	Limit	Units	Analyzed	By
ETHYL BENZENE	<0.1	0.1	MG/KG	10/07/91	DD
XYLENES	<0.1	0.1	MG/KG	10/07/91	DD
TCLP F SERIES ENRON LIST					
METHYLENE CHLORIDE	<.020	.020	MG/L	10/10/91	OS
1,1,1-TRICHLOROETHANE	<.020	.020	MG/L	10/10/91	OS
TRICHLORO-TRIFLUOROETHANE	<.020	.020	MG/L	10/10/91	OS
ORTHO-DICHLOROBENZENE	<.020	.020	MG/L	10/10/91	OS
TRICHLOROFLUOROMETHANE	<.020	.020	MG/L	10/10/91	OS
XYLENE	<.020	.020	MG/L	10/10/91	OS
ACETONE	<10	10	MG/L	10/10/91	OS
ETHYL ACETATE	<10	10	MG/L	10/10/91	OS
ETHYL BENZENE	<.020	.020	MG/L	10/10/91	OS
ETHYL ETHER	<.020	.020	MG/L	10/10/91	OS
METHYL ISOBUTYL KETONE	<.020	.020	MG/L	10/10/91	OS
n-BUTYL ALCOHOL	<10	10	MG/L	10/10/91	OS
CYCLOHEXANONE	<.020	.020	MG/L	10/10/91	OS
METHANOL	<10	10	MG/L	10/10/91	OS
CRESYLIC ACID	<.001	.001	MG/L	10/10/91	OS
TOLUENE	<.020	.020	MG/L	10/10/91	OS
CARBON DISULFIDE	<.020	.020	MG/L	10/10/91	OS
ISOBUTANOL	<10	10	MG/L	10/10/91	OS
2-ETHOXYETHANOL	<10	10	MG/L	10/10/91	OS
2-NITROPROPANE	<.020	.020	MG/L	10/10/91	OS
Surrogates					
4-BROMOFLUOROBENZENE	100	Min: 86	Max: 115		
1,2-DICHLOROETHANE-d4	116 Q	Min: 76	Max: 114		
TOLUENE-d8	98	Min: 88	Max: 110		
TCLP METALS					

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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
ARSENIC	0.006	0.005	MG/L		JC
BARIUM	<0.50	0.50	MG/L		JC
CADMIUM	0.023	0.003	MG/L		JC
CHROMIUM	0.06	0.02	MG/L		JC
LEAD	0.27	0.10	MG/L		JC
MERCURY	<0.0002	0.0002	MG/L		JC
SELENIUM	<0.005	0.005	MG/L		JC
SILVER	0.016	0.010	MG/L		JC
TCPLP ORGANICS ENRON LIST					
BENZENE	<.020	.020	MG/L	10/08/91	SS
CARBON TETRACHLORIDE	<.020	.020	MG/L	10/08/91	SS
CHLOROBENZENE	<.020	.020	MG/L	10/08/91	SS
CHLOROFORM	<.020	.020	MG/L	10/08/91	SS
1,2-DICHLOROETHANE	<.020	.020	MG/L	10/08/91	SS
1,1-DICHLOROETHYLENE	<.020	.020	MG/L	10/08/91	SS
METHYL ETHYL KETONE	<.020	.020	MG/L	10/08/91	SS
TETRACHLOROETHYLENE	<.020	.020	MG/L	10/08/91	SS
TRICHLOROETHYLENE	<.020	.020	MG/L	10/08/91	SS
VINYL CHLORIDE	<.020	.020	MG/L	10/08/91	SS
O-CRESOL	<.001	.001	MG/L	10/08/91	SS
M-CRESOL	<.001	.001	MG/L	10/08/91	SS
P-CRESOL	<.001	.001	MG/L	10/08/91	SS
1,4-DICHLOROBENZENE	<.001	.001	MG/L	10/08/91	SS
2,4-DINITROTOLUENE	<.001	.001	MG/L	10/08/91	SS
HEXACHLOROBENZENE	<.001	.001	MG/L	10/08/91	SS
HEXACHLORO-1,3-BUTADIENE	<.001	.001	MG/L	10/08/91	SS
HEXACHLOROETHANE	<.001	.001	MG/L	10/08/91	SS
NITROBENZENE	<.001	.001	MG/L	10/08/91	SS

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Test Description	Result	Limit	Units	Analyzed	By
PENTACHLOROPHENOL	<.001	.001	MG/L	10/08/91	SS
PYRIDINE	<.001	.001	MG/L	10/08/91	SS
2,4,5-TRICHLOROPHENOL	<.001	.001	MG/L	10/08/91	SS
2,4,6-TRICHLOROPHENOL	<.001	.001	MG/L	10/08/91	SS
Surrogates					
NITROBENZENE-d5	54	Min: 35	Max: 114		
2-FLUOROBIPHENYL	97	Min: 43	Max: 116		
TERPHENYL-d14	66	Min: 33	Max: 141		
PHENOL-d5	93	Min: 10	Max: 94		
2-FLUOROPHENOL	121 Q	Min: 21	Max: 100		
TOTAL REC PET HYDROCARBONS	<5.0	5.0	MG/KG	10/11/91	PV

Sample: 03A BH-12 0.8 - 2.1

Collected:

Test Description	Result	Limit	Units	Analyzed	By
BENZENE, TOLUENE, EBENZ, XYLE		0.1			
BENZENE	<0.1	0.1	MG/KG	10/07/91	DD
TOLUENE	<0.1	0.1	MG/KG	10/07/91	DD
ETHYL BENZENE	<0.1	0.1	MG/KG	10/07/91	DD
XYLENES	0.14	0.1	MG/KG	10/07/91	DD
TCLP F SERIES ENRON LIST					
METHYLENE CHLORIDE	<.020	.020	MG/L	10/10/91	OS
1,1,1-TRICHLOROETHANE	<.020	.020	MG/L	10/10/91	OS
TRICHLORO-TRIFLUOROETHANE	<.020	.020	MG/L	10/10/91	OS
ORTHO-DICHLOROBENZENE	<.020	.020	MG/L	10/10/91	OS
TRICHLOROFLUOROMETHANE	<.020	.020	MG/L	10/10/91	OS

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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
XYLENE	<.020	.020	MG/L	10/10/91	OS
ACETONE	<10	10	MG/L	10/10/91	OS
ETHYL ACETATE	<10	10	MG/L	10/10/91	OS
ETHYL BENZENE	<.020	.020	MG/L	10/10/91	OS
ETHYL ETHER	<.020	.020	MG/L	10/10/91	OS
METHYL ISOBUTYL KETONE	<.020	.020	MG/L	10/10/91	OS
n-BUTYL ALCOHOL	<10	10	MG/L	10/10/91	OS
CYCLOHEXANONE	<.020	.020	MG/L	10/10/91	OS
METHANOL	<10	10	MG/L	10/10/91	OS
CRESYLIC ACID	<.001	.001	MG/L	10/10/91	OS
TOLUENE	<.020	.020	MG/L	10/10/91	OS
CARBON DISULFIDE	<.020	.020	MG/L	10/10/91	OS
ISOBUTANOL	<10	10	MG/L	10/10/91	OS
2-ETHOXYETHANOL	<10	10	MG/L	10/10/91	OS
2-NITROPROPANE	<.020	.020	MG/L	10/10/91	OS
Surrogates					
4-BROMOFLUOROBENZENE	101	Min: 86	Max: 115		
1,2-DICHLOROETHANE-d4	118 Q	Min: 76	Max: 114		
TOLUENE-d8	100	Min: 88	Max: 110		
TCLP METALS					
ARSENIC	<0.005	0.005	MG/L		JC
BARIUM	<0.50	0.50	MG/L		JC
CADMIUM	0.027	0.003	MG/L		JC
CHROMIUM	0.04	0.02	MG/L		JC
LEAD	0.25	0.10	MG/L		JC
MERCURY	0.0008	0.0002	MG/L		JC
SELENIUM	<0.005	0.005	MG/L		JC
SILVER	0.028	0.010	MG/L		JC



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
TCLP ORGANICS ENRON LIST					
BENZENE	<.020	.020	MG/L	10/08/91	SS
CARBON TETRACHLORIDE	<.020	.020	MG/L	10/08/91	SS
CHLOROBENZENE	<.020	.020	MG/L	10/08/91	SS
CHLOROFORM	<.020	.020	MG/L	10/08/91	SS
1,2-DICHLOROETHANE	<.020	.020	MG/L	10/08/91	SS
1,1-DICHLOROETHYLENE	<.020	.020	MG/L	10/08/91	SS
METHYL ETHYL KETONE	<.020	.020	MG/L	10/08/91	SS
TETRACHLOROETHYLENE	<.020	.020	MG/L	10/08/91	SS
TRICHLOROETHYLENE	<.020	.020	MG/L	10/08/91	SS
VINYL CHLORIDE	<.020	.020	MG/L	10/08/91	SS
O-CRESOL	<.001	.001	MG/L	10/08/91	SS
M-CRESOL	<.001	.001	MG/L	10/08/91	SS
P-CRESOL	<.001	.001	MG/L	10/08/91	SS
1,4-DICHLOROBENZENE	<.001	.001	MG/L	10/08/91	SS
2,4-DINITROTOLUENE	<.001	.001	MG/L	10/08/91	SS
HEXACHLOROBENZENE	<.001	.001	MG/L	10/08/91	SS
HEXACHLORO-1,3-BUTADIENE	<.001	.001	MG/L	10/08/91	SS
HEXACHLOROETHANE	<.001	.001	MG/L	10/08/91	SS
NITROBENZENE	<.001	.001	MG/L	10/08/91	SS
PENTACHLOROPHENOL	<.001	.001	MG/L	10/08/91	SS
PYRIDINE	<.001	.001	MG/L	10/08/91	SS
2,4,5-TRICHLOROPHENOL	<.001	.001	MG/L	10/08/91	SS
2,4,6-TRICHLOROPHENOL	<.001	.001	MG/L	10/08/91	SS
Surrogates					
NITROBENZENE-d5	71	Min: 35	Max: 114		
2-FLUOROBIPHENYL	61	Min: 43	Max: 116		
TERPHENYL-d14	47	Min: 33	Max: 141		
PHENOL-d5	79	Min: 10	Max: 94		
2-FLUOROPHENOL	85	Min: 21	Max: 100		

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Test Description
TOTAL REC PET HYDROCARBONSResult
1400Units
MG/KGAnalyzed
10/11/91By
PV

Sample: 04A BH-11 1.0 - 2.8

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
BENZENE, TOLUENE, EBENZ, XYLE					
BENZENE	<0.1	0.1	MG/KG	10/07/91	DD
TOLUENE	<0.1	0.1	MG/KG	10/07/91	DD
ETHYL BENZENE	<0.1	0.1	MG/KG	10/07/91	DD
XYLENES	<0.1	0.1	MG/KG	10/07/91	DD
TCCLP F SERIES ENRON LIST					
METHYLENE CHLORIDE	<.020	.020	MG/L	10/10/91	OS
1,1,1-TRICHLOROETHANE	<.020	.020	MG/L	10/10/91	OS
TRICHLORO-TRIFLUOROETHANE	<.020	.020	MG/L	10/10/91	OS
ORTHO-DICHLOROBENZENE	<.020	.020	MG/L	10/10/91	OS
TRICHLOROFLUOROMETHANE	<.020	.020	MG/L	10/10/91	OS
XYLENE	<.020	.020	MG/L	10/10/91	OS
ACETONE	<10	10	MG/L	10/10/91	OS
ETHYL ACETATE	<10	10	MG/L	10/10/91	OS
ETHYL BENZENE	<.020	.020	MG/L	10/10/91	OS
ETHYL ETHER	<.020	.020	MG/L	10/10/91	OS
METHYL ISOBUTYL KETONE	<.020	.020	MG/L	10/10/91	OS
n-BUTYL ALCOHOL	<10	10	MG/L	10/10/91	OS
CYCLOHEXANONE	<.020	.020	MG/L	10/10/91	OS
METHANOL	<10	10	MG/L	10/10/91	OS
CRESYLIC ACID	<.001	.001	MG/L	10/10/91	OS
TOLUENE	<.020	.020	MG/L	10/10/91	OS
CARBON DISULFIDE	<.020	.020	MG/L	10/10/91	OS

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Test Description	Result	Limit	Units	Analyzed	By
ISOBUTANOL	<10	10	MG/L	10/10/91	OS
2-ETHOXYETHANOL	<10	10	MG/L	10/10/91	OS
2-NITROPROPANE	<.020	.020	MG/L	10/10/91	OS
Surrogates					
4-BROMOFLUOROBENZENE	106	Min: 86	Max: 115		
1,2-DICHLOROETHANE-d4	135 Q	Min: 76	Max: 114		
TOLUENE-d8	99	Min: 88	Max: 110		
TCCLP METALS					
ARSENIC	<0.005	0.005	MG/L		JC
BARIUM	0.62	0.50	MG/L		JC
CADMIUM	0.013	0.003	MG/L		JC
CHROMIUM	<0.02	0.02	MG/L		JC
LEAD	0.11	0.10	MG/L		JC
MERCURY	<0.0002	0.0002	MG/L		JC
SELENIUM	<0.005	0.005	MG/L		JC
SILVER	<0.010	0.010	MG/L		JC
TCCLP ORGANICS ENRON LIST					
BENZENE	<.020	.020	MG/L	10/08/91	SS
CARBON TETRACHLORIDE	<.020	.020	MG/L	10/08/91	SS
CHLOROBENZENE	<.020	.020	MG/L	10/08/91	SS
CHLOROFORM	<.020	.020	MG/L	10/08/91	SS
1,2-DICHLOROETHANE	<.020	.020	MG/L	10/08/91	SS
1,1-DICHLOROETHYLENE	<.020	.020	MG/L	10/08/91	SS
METHYL ETHYL KETONE	<.020	.020	MG/L	10/08/91	SS
TETRACHLOROETHYLENE	<.020	.020	MG/L	10/08/91	SS
TRICHLOROETHYLENE	<.020	.020	MG/L	10/08/91	SS
VINYL CHLORIDE	<.020	.020	MG/L	10/08/91	SS
O-CRESOL	<.001	.001	MG/L	10/08/91	SS



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
M-CRESOL	<.001	.001	MG/L	10/08/91	SS
P-CRESOL	<.001	.001	MG/L	10/08/91	SS
1,4-DICHLOROBENZENE	<.001	.001	MG/L	10/08/91	SS
2,4-DINITROTOLUENE	<.001	.001	MG/L	10/08/91	SS
HEXACHLOROBENZENE	<.001	.001	MG/L	10/08/91	SS
HEXACHLORO-1,3-BUTADIENE	<.001	.001	MG/L	10/08/91	SS
HEXACHLOROETHANE	<.001	.001	MG/L	10/08/91	SS
NITROBENZENE	<.001	.001	MG/L	10/08/91	SS
PENTACHLOROPHENOL	<.001	.001	MG/L	10/08/91	SS
PYRIDINE	<.001	.001	MG/L	10/08/91	SS
2,4,5-TRICHLOROPHENOL	<.001	.001	MG/L	10/08/91	SS
2,4,6-TRICHLOROPHENOL	<.001	.001	MG/L	10/08/91	SS
Surrogates					
NITROBENZENE-d5	68	Min: 35	Max: 114		
2-FLUOROBIPHENYL	100	Min: 43	Max: 116		
TERPHENYL-d14	77	Min: 33	Max: 141		
PHENOL-d5	76	Min: 10	Max: 94		
2-FLUOROPHENOL	59	Min: 21	Max: 100		
TOTAL REC PET HYDROCARBONS	<5.0	5.0	MG/KG	10/11/91	PV

Sample: 05A BH-4 0 - 2.6

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
BENZENE, TOLUENE, EBENZ, XYLE		0.1			
BENZENE	<0.1	0.1	MG/KG	10/07/91	DD
TOLUENE	<0.1	0.1	MG/KG	10/07/91	DD



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Test Description	Result	Limit	Units	Analyzed	By
ETHYL BENZENE	<0.1	0.1	MG/KG	10/07/91	DD
XYLENES	<0.1	0.1	MG/KG	10/07/91	DD
TCLP F SERIES ENRON LIST					
METHYLENE CHLORIDE	<.020	.020	MG/L	10/10/91	OS
1,1,1-TRICHLOROETHANE	<.020	.020	MG/L	10/10/91	OS
TRICHLORO-TRIFLUOROETHANE	<.020	.020	MG/L	10/10/91	OS
ORTHO-DICHLOROBENZENE	<.020	.020	MG/L	10/10/91	OS
TRICHLOROFLUOROMETHANE	<.020	.020	MG/L	10/10/91	OS
XYLENE	<.020	.020	MG/L	10/10/91	OS
ACETONE	<10	10	MG/L	10/10/91	OS
ETHYL ACETATE	<10	10	MG/L	10/10/91	OS
ETHYL BENZENE	<.020	.020	MG/L	10/10/91	OS
ETHYL ETHER	<.020	.020	MG/L	10/10/91	OS
METHYL ISOBUTYL KETONE	<.020	.020	MG/L	10/10/91	OS
n-BUTYL ALCOHOL	<10	10	MG/L	10/10/91	OS
CYCLOHEXANONE	<.020	.020	MG/L	10/10/91	OS
METHANOL	<10	10	MG/L	10/10/91	OS
CRESYLIC ACID	<.001	.001	MG/L	10/10/91	OS
TOLUENE	<.020	.020	MG/L	10/10/91	OS
CARBON DISULFIDE	<.020	.020	MG/L	10/10/91	OS
ISOBUTANOL	<10	10	MG/L	10/10/91	OS
2-ETHOXYETHANOL	<10	10	MG/L	10/10/91	OS
2-NITROPROPANE	<.020	.020	MG/L	10/10/91	OS
Surrogates					
4-BROMOFLUOROBENZENE	101	Min: 86	Max: 115		
1,2-DICHLOROETHANE-d4	110	Min: 76	Max: 114		
TOLUENE-d8	101	Min: 88	Max: 110		
TCLP METALS					

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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
ARSENIC	0.007	0.005	MG/L		JC
BARIUM	0.71	0.50	MG/L		JC
CADMIUM	0.017	0.003	MG/L		JC
CHROMIUM	<0.02	0.02	MG/L		JC
LEAD	0.15	0.10	MG/L		JC
MERCURY	<0.0002	0.0002	MG/L		JC
SELENIUM	<0.005	0.005	MG/L		JC
SILVER	0.011	0.010	MG/L		JC
TCLP ORGANICS ENRON LIST					
BENZENE	<.020	.020	MG/L	10/14/91	SS
CARBON TETRACHLORIDE	<.020	.020	MG/L	10/14/91	SS
CHLOROBENZENE	<.020	.020	MG/L	10/14/91	SS
CHLOROFORM	<.020	.020	MG/L	10/14/91	SS
1,2-DICHLOROETHANE	<.020	.020	MG/L	10/14/91	SS
1,1-DICHLOROETHYLENE	<.020	.020	MG/L	10/14/91	SS
METHYL ETHYL KETONE	<.020	.020	MG/L	10/14/91	SS
TETRACHLOROETHYLENE	<.020	.020	MG/L	10/14/91	SS
TRICHLOROETHYLENE	<.020	.020	MG/L	10/14/91	SS
VINYL CHLORIDE	<.020	.020	MG/L	10/14/91	SS
O-CRESOL	<.001	.001	MG/L	10/14/91	SS
M-CRESOL	<.001	.001	MG/L	10/14/91	SS
P-CRESOL	<.001	.001	MG/L	10/14/91	SS
1,4-DICHLOROBENZENE	<.001	.001	MG/L	10/14/91	SS
2,4-DINITROTOLUENE	<.001	.001	MG/L	10/14/91	SS
HEXACHLOROBENZENE	<.001	.001	MG/L	10/14/91	SS
HEXACHLORO-1,3-BUTADIENE	<.001	.001	MG/L	10/14/91	SS
HEXACHLOROETHANE	<.001	.001	MG/L	10/14/91	SS
NITROBENZENE	<.001	.001	MG/L	10/14/91	SS

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Test Description	Result	Limit	Units	Analyzed	By
PENTACHLOROPHENOL	<.001	.001	MG/L	10/14/91	SS
PYRIDINE	<.001	.001	MG/L	10/14/91	SS
2,4,5-TRICHLOROPHENOL	<.001	.001	MG/L	10/14/91	SS
2,4,6-TRICHLOROPHENOL	<.001	.001	MG/L	10/14/91	SS
Surrogates					
NITROBENZENE-d5	81	Min: 35	Max: 114		
2-FLUOROBIPHENYL	68	Min: 43	Max: 116		
TERPHENYL-d14	65	Min: 33	Max: 141		
PHENOL-d5	74	Min: 10	Max: 94		
2-FLUOROPHENOL	85	Min: 21	Max: 100		
TOTAL REC PET HYDROCARBONS	<5.0	5.0	MG/KG	10/11/91	PV

Sample: 06A BH-10 0 - 2.0

Collected:

Test Description	Result	Limit	Units	Analyzed	By
BENZENE, TOLUENE, EBENZ, XYLE		0.1			
BENZENE	<0.1	0.1	MG/KG	10/07/91	DD
TOLUENE	<0.1	0.1	MG/KG	10/07/91	DD
ETHYL BENZENE	<0.1	0.1	MG/KG	10/07/91	DD
XYLENES	<0.1	0.1	MG/KG	10/07/91	DD
TCLP F SERIES ENRON LIST					
METHYLENE CHLORIDE	<.020	.020	MG/L	10/10/91	OS
1,1,1-TRICHLOROETHANE	<.020	.020	MG/L	10/10/91	OS
TRICHLORO-TRIFLUOROETHANE	<.020	.020	MG/L	10/10/91	OS
ORTHO-DICHLOROBENZENE	<.020	.020	MG/L	10/10/91	OS
TRICHLOROFLUOROMETHANE	<.020	.020	MG/L	10/10/91	OS

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Test Description	Result	Limit	Units	Analyzed	By
XYLENE	<.020	.020	MG/L	10/10/91	OS
ACETONE	<10	10	MG/L	10/10/91	OS
ETHYL ACETATE	<10	10	MG/L	10/10/91	OS
ETHYL BENZENE	<.020	.020	MG/L	10/10/91	OS
ETHYL ETHER	<.020	.020	MG/L	10/10/91	OS
METHYL ISOBUTYL KETONE	<.020	.020	MG/L	10/10/91	OS
n-BUTYL ALCOHOL	<10	10	MG/L	10/10/91	OS
CYCLOHEXANONE	<.020	.020	MG/L	10/10/91	OS
METHANOL	<10	10	MG/L	10/10/91	OS
CRESYLIC ACID	<.001	.001	MG/L	10/10/91	OS
TOLUENE	<.020	.020	MG/L	10/10/91	OS
CARBON DISULFIDE	<.020	.020	MG/L	10/10/91	OS
ISOBUTANOL	<10	10	MG/L	10/10/91	OS
2-ETHOXYETHANOL	<10	10	MG/L	10/10/91	OS
2-NITROPROPANE	<.020	.020	MG/L	10/10/91	OS
Surrogates					
4-BROMOFLUOROBENZENE	101	Min: 86	Max: 115		
1,2-DICHLOROETHANE-d4	123 Q	Min: 76	Max: 114		
TOLUENE-d8	101	Min: 88	Max: 110		
TCLP METALS					
ARSENIC	<0.005	0.005	MG/L		JC
BARIUM	<0.50	0.50	MG/L		JC
CADMIUM	0.029	0.003	MG/L		JC
CHROMIUM	0.04	0.02	MG/L		JC
LEAD	0.25	0.10	MG/L		JC
MERCURY	0.0002	0.0002	MG/L		JC
SELENIUM	<0.005	0.005	MG/L		JC
SILVER	0.026	0.010	MG/L		JC



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
TCLP ORGANICS ENRON LIST					
BENZENE	<.020	.020	MG/L	10/14/91	SS
CARBON TETRACHLORIDE	<.020	.020	MG/L	10/14/91	SS
CHLOROBENZENE	<.020	.020	MG/L	10/14/91	SS
CHLOROFORM	<.020	.020	MG/L	10/14/91	SS
1,2-DICHLOROETHANE	<.020	.020	MG/L	10/14/91	SS
1,1-DICHLOROETHYLENE	<.020	.020	MG/L	10/14/91	SS
METHYL ETHYL KETONE	<.020	.020	MG/L	10/14/91	SS
TETRACHLOROETHYLENE	<.020	.020	MG/L	10/14/91	SS
TRICHLOROETHYLENE	<.020	.020	MG/L	10/14/91	SS
VINYL CHLORIDE	<.020	.020	MG/L	10/14/91	SS
O-CRESOL	<.001	.001	MG/L	10/14/91	SS
M-CRESOL	<.001	.001	MG/L	10/14/91	SS
P-CRESOL	<.001	.001	MG/L	10/14/91	SS
1,4-DICHLOROBENZENE	<.001	.001	MG/L	10/14/91	SS
2,4-DINITROTOLUENE	<.001	.001	MG/L	10/14/91	SS
HEXACHLOROBENZENE	<.001	.001	MG/L	10/14/91	SS
HEXACHLORO-1,3-BUTADIENE	<.001	.001	MG/L	10/14/91	SS
HEXACHLOROETHANE	<.001	.001	MG/L	10/14/91	SS
NITROBENZENE	<.001	.001	MG/L	10/14/91	SS
PENTACHLOROPHENOL	<.001	.001	MG/L	10/14/91	SS
PYRIDINE	<.001	.001	MG/L	10/14/91	SS
2,4,5-TRICHLOROPHENOL	<.001	.001	MG/L	10/14/91	SS
2,4,6-TRICHLOROPHENOL	<.001	.001	MG/L	10/14/91	SS
Surrogates					
NITROBENZENE-d5	80	Min: 35	Max: 114		
2-FLUOROBIPHENYL	64	Min: 43	Max: 116		
TERPHENYL-d14	48	Min: 33	Max: 141		
PHENOL-d5	72	Min: 10	Max: 94		
2-FLUOROPHENOL	82	Min: 21	Max: 100		

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Test Description
TOTAL REC PET HYDROCARBONSResult
<5.0Units
MG/KGAnalyzed
10/11/91By
PV

Sample: 07A BH-13 1.0 - 2.7

Collected:

Test Description	Result	Limit	Units	Analyzed	By
BENZENE, TOLUENE, EBENZ, XYLE					
BENZENE	<0.1	0.1	MG/KG	10/07/91	DD
TOLUENE	<0.1	0.1	MG/KG	10/07/91	DD
ETHYL BENZENE	<0.1	0.1	MG/KG	10/07/91	DD
XYLENES	<0.1	0.1	MG/KG	10/07/91	DD
TCLP F SERIES ENRON LIST					
METHYLENE CHLORIDE	<.020	.020	MG/L	10/10/91	OS
1,1,1-TRICHLOROETHANE	<.020	.020	MG/L	10/10/91	OS
TRICHLORO-TRIFLUOROETHANE	<.020	.020	MG/L	10/10/91	OS
ORTHO-DICHLOROBENZENE	<.020	.020	MG/L	10/10/91	OS
TRICHLOROFLUOROMETHANE	<.020	.020	MG/L	10/10/91	OS
XYLENE	<.020	.020	MG/L	10/10/91	OS
ACETONE	<10	10	MG/L	10/10/91	OS
ETHYL ACETATE	<10	10	MG/L	10/10/91	OS
ETHYL BENZENE	<.020	.020	MG/L	10/10/91	OS
ETHYL ETHER	<.020	.020	MG/L	10/10/91	OS
METHYL ISOBUTYL KETONE	<.020	.020	MG/L	10/10/91	OS
n-BUTYL ALCOHOL	<10	10	MG/L	10/10/91	OS
CYCLOHEXANONE	<.020	.020	MG/L	10/10/91	OS
METHANOL	<10	10	MG/L	10/10/91	OS
CRSYLIC ACID	<.001	.001	MG/L	10/10/91	OS
TOLUENE	<.020	.020	MG/L	10/10/91	OS
CARBON DISULFIDE	<.020	.020	MG/L	10/10/91	OS

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Test Description	Result	Limit	Units	Analyzed	By
ISOBUTANOL	<10	10	MG/L	10/10/91	OS
2-ETHOXYETHANOL	<10	10	MG/L	10/10/91	OS
2-NITROPROPANE	<.020	.020	MG/L	10/10/91	OS
Surrogates					
4-BROMOFLUOROBENZENE	102	Min: 86	Max: 115		
1,2-DICHLOROETHANE-d4	115 Q	Min: 76	Max: 114		
TOLUENE-d8	101	Min: 88	Max: 110		
TCLP METALS					
ARSENIC	<0.005	0.005	MG/L		JC
BARIUM	<0.50	0.50	MG/L		JC
CADMIUM	0.029	0.003	MG/L		JC
CHROMIUM	<0.02	0.02	MG/L		JC
LEAD	0.12	0.10	MG/L		JC
MERCURY	<0.0002	0.0002	MG/L		JC
SELENIUM	<0.005	0.005	MG/L		JC
SILVER	0.010	0.010	MG/L		JC
TCLP ORGANICS ENRON LIST					
BENZENE	<.020	.020	MG/L	10/14/91	SS
CARBON TETRACHLORIDE	<.020	.020	MG/L	10/14/91	SS
CHLOROBENZENE	<.020	.020	MG/L	10/14/91	SS
CHLOROFORM	<.020	.020	MG/L	10/14/91	SS
1,2-DICHLOROETHANE	<.020	.020	MG/L	10/14/91	SS
1,1-DICHLOROETHYLENE	<.020	.020	MG/L	10/14/91	SS
METHYL ETHYL KETONE	<.020	.020	MG/L	10/14/91	SS
TETRACHLOROETHYLENE	<.020	.020	MG/L	10/14/91	SS
TRICHLOROETHYLENE	<.020	.020	MG/L	10/14/91	SS
VINYL CHLORIDE	<.020	.020	MG/L	10/14/91	SS
O-CRESOL	<.001	.001	MG/L	10/14/91	SS



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
M-CRESOL	<.001	.001	MG/L	10/14/91	SS
P-CRESOL	<.001	.001	MG/L	10/14/91	SS
1,4-DICHLOROBENZENE	<.001	.001	MG/L	10/14/91	SS
2,4-DINITROTOLUENE	<.001	.001	MG/L	10/14/91	SS
HEXACHLOROBENZENE	<.001	.001	MG/L	10/14/91	SS
HEXACHLORO-1,3-BUTADIENE	<.001	.001	MG/L	10/14/91	SS
HEXACHLOROETHANE	<.001	.001	MG/L	10/14/91	SS
NITROBENZENE	<.001	.001	MG/L	10/14/91	SS
PENTACHLOROPHENOL	<.001	.001	MG/L	10/14/91	SS
PYRIDINE	<.001	.001	MG/L	10/14/91	SS
2,4,5-TRICHLOROPHENOL	<.001	.001	MG/L	10/14/91	SS
2,4,6-TRICHLOROPHENOL	<.001	.001	MG/L	10/14/91	SS
Surrogates					
NITROBENZENE-d5	67	Min: 35	Max: 114		
2-FLUOROBIPHENYL	57	Min: 43	Max: 116		
TERPHENYL-d14	45	Min: 33	Max: 141		
PHENOL-d5	57	Min: 10	Max: 94		
2-FLUOROPHENOL	81	Min: 21	Max: 100		
TOTAL REC PET HYDROCARBONS	<5.0	5.0	MG/KG	10/11/91	PV

Sample: 08A BH-18 0.5 - 2.6

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
BENZENE, TOLUENE, EBENZ, XYLE					
BENZENE	<0.1	0.1	MG/KG	10/07/91	DD
TOLUENE	<0.1	0.1	MG/KG	10/07/91	DD



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
ETHYL BENZENE	<0.1	0.1	MG/KG	10/07/91	DD
XYLENES	0.19	0.1	MG/KG	10/07/91	DD
TCLP F SERIES ENRON LIST					
METHYLENE CHLORIDE	<.020	.020	MG/L	10/10/91	OS
1,1,1-TRICHLOROETHANE	<.020	.020	MG/L	10/10/91	OS
TRICHLORO-TRIFLUOROETHANE	<.020	.020	MG/L	10/10/91	OS
ORTHO-DICHLOROBENZENE	<.020	.020	MG/L	10/10/91	OS
TRICHLOROFLUOROMETHANE	<.020	.020	MG/L	10/10/91	OS
XYLENE	<.020	.020	MG/L	10/10/91	OS
ACETONE	<10	10	MG/L	10/10/91	OS
ETHYL ACETATE	<10	10	MG/L	10/10/91	OS
ETHYL BENZENE	<.020	.020	MG/L	10/10/91	OS
ETHYL ETHER	<.020	.020	MG/L	10/10/91	OS
METHYL ISOBUTYL KETONE	<.020	.020	MG/L	10/10/91	OS
n-BUTYL ALCOHOL	<10	10	MG/L	10/10/91	OS
CYCLOHEXANONE	<.020	.020	MG/L	10/10/91	OS
METHANOL	<10	10	MG/L	10/10/91	OS
CRESYLIC ACID	<.001	.001	MG/L	10/10/91	OS
TOLUENE	<.020	.020	MG/L	10/10/91	OS
CARBON DISULFIDE	<.020	.020	MG/L	10/10/91	OS
ISOBUTANOL	<10	10	MG/L	10/10/91	OS
2-ETHOXYETHANOL	<10	10	MG/L	10/10/91	OS
2-NITROPROPANE	<.020	.020	MG/L	10/10/91	OS
Surrogates					
4-BROMOFLUOROBENZENE	102	Min: 86	Max: 115		
1,2-DICHLOROETHANE-d4	104	Min: 76	Max: 114		
TOLUENE-d8	103	Min: 88	Max: 110		
TCLP METALS					



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
ARSENIC	<0.005	0.005	MG/L		JC
BARIUM	<0.50	0.50	MG/L		JC
CADMIUM	0.013	0.003	MG/L		JC
CHROMIUM	<0.02	0.02	MG/L		JC
LEAD	0.13	0.10	MG/L		JC
MERCURY	<0.0002	0.0002	MG/L		JC
SELENIUM	<0.005	0.005	MG/L		JC
SILVER	<0.010	0.010	MG/L		JC
TCCLP ORGANICS ENRON LIST					
BENZENE	<.020	.020	MG/L	10/14/91	SS
CARBON TETRACHLORIDE	<.020	.020	MG/L	10/14/91	SS
CHLOROBENZENE	<.020	.020	MG/L	10/14/91	SS
CHLOROFORM	<.020	.020	MG/L	10/14/91	SS
1,2-DICHLOROETHANE	<.020	.020	MG/L	10/14/91	SS
1,1-DICHLOROETHYLENE	<.020	.020	MG/L	10/14/91	SS
METHYL ETHYL KETONE	<.020	.020	MG/L	10/14/91	SS
TETRACHLOROETHYLENE	<.020	.020	MG/L	10/14/91	SS
TRICHLOROETHYLENE	<.020	.020	MG/L	10/14/91	SS
VINYL CHLORIDE	<.020	.020	MG/L	10/14/91	SS
O-CRESOL	<.001	.001	MG/L	10/14/91	SS
M-CRESOL	<.001	.001	MG/L	10/14/91	SS
P-CRESOL	<.001	.001	MG/L	10/14/91	SS
1,4-DICHLOROBENZENE	<.001	.001	MG/L	10/14/91	SS
2,4-DINITROTOLUENE	<.001	.001	MG/L	10/14/91	SS
HEXACHLOROBENZENE	<.001	.001	MG/L	10/14/91	SS
HEXACHLORO-1,3-BUTADIENE	<.001	.001	MG/L	10/14/91	SS
HEXACHLOROETHANE	<.001	.001	MG/L	10/14/91	SS
NITROBENZENE	<.001	.001	MG/L	10/14/91	SS



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
PENTACHLOROPHENOL	<.001	.001	MG/L	10/14/91	SS
PYRIDINE	<.001	.001	MG/L	10/14/91	SS
2,4,5-TRICHLOROPHENOL	<.001	.001	MG/L	10/14/91	SS
2,4,6-TRICHLOROPHENOL	<.001	.001	MG/L	10/14/91	SS
Surrogates					
NITROBENZENE-d5	74	Min: 35	Max: 114		
2-FLUOROBIPHENYL	65	Min: 43	Max: 116		
TERPHENYL-d14	47	Min: 33	Max: 141		
PHENOL-d5	58	Min: 10	Max: 94		
2-FLUOROPHENOL	63	Min: 21	Max: 100		
TOTAL REC PET HYDROCARBONS	3500	5.0	MG/KG	10/11/91	PV

Sample: 09A BH-15 0.7 - 1.4

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
BENZENE, TOLUENE, EBENZ, XYLE		0.1			
BENZENE	<0.1	0.1	MG/KG	10/07/91	DD
TOLUENE	<0.1	0.1	MG/KG	10/07/91	DD
ETHYL BENZENE	0.16	0.1	MG/KG	10/07/91	DD
XYLENES	0.13	0.1	MG/KG	10/07/91	DD
TCLP F SERIES ENRON LIST					
METHYLENE CHLORIDE	<.020	.020	MG/L	10/10/91	OS
1,1,1-TRICHLOROETHANE	<.020	.020	MG/L	10/10/91	OS
TRICHLORO-TRIFLUOROETHANE	<.020	.020	MG/L	10/10/91	OS
ORTHO-DICHLOROBENZENE	<.020	.020	MG/L	10/10/91	OS
TRICHLOROFLUOROMETHANE	<.020	.020	MG/L	10/10/91	OS



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
XYLENE	<.020	.020	MG/L	10/10/91	OS
ACETONE	<10	10	MG/L	10/10/91	OS
ETHYL ACETATE	<10	10	MG/L	10/10/91	OS
ETHYL BENZENE	<.020	.020	MG/L	10/10/91	OS
ETHYL ETHER	<.020	.020	MG/L	10/10/91	OS
METHYL ISOBUTYL KETONE	<.020	.020	MG/L	10/10/91	OS
n-BUTYL ALCOHOL	<10	10	MG/L	10/10/91	OS
CYCLOHEXANONE	<.020	.020	MG/L	10/10/91	OS
METHANOL	<10	10	MG/L	10/10/91	OS
CRESYLIC ACID	<.001	.001	MG/L	10/10/91	OS
TOLUENE	<.020	.020	MG/L	10/10/91	OS
CARBON DISULFIDE	<.020	.020	MG/L	10/10/91	OS
ISOBUTANOL	<10	10	MG/L	10/10/91	OS
2-ETHOXYETHANOL	<10	10	MG/L	10/10/91	OS
2-NITROPROPANE	<.020	.020	MG/L	10/10/91	OS
Surrogates					
4-BROMOFLUOROBENZENE	103	Min: 86	Max: 115		
1,2-DICHLOROETHANE-d4	113	Min: 76	Max: 114		
TOLUENE-d8	102	Min: 88	Max: 110		
TCLP METALS					
ARSENIC	<0.005	0.005	MG/L		JC
BARIUM	0.89	0.50	MG/L		JC
CADMIUM	0.016	0.003	MG/L		JC
CHROMIUM	<0.02	0.02	MG/L		JC
LEAD	0.22	0.10	MG/L		JC
MERCURY	<0.0002	0.0002	MG/L		JC
SELENIUM	<0.005	0.005	MG/L		JC
SILVER	<0.010	0.010	MG/L		JC



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Test Description
TCPL ORGANICS ENRON LIST

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
BENZENE	<.020	.020	MG/L	10/14/91	SS
CARBON TETRACHLORIDE	<.020	.020	MG/L	10/14/91	SS
CHLOROBENZENE	<.020	.020	MG/L	10/14/91	SS
CHLOROFORM	<.020	.020	MG/L	10/14/91	SS
1,2-DICHLOROETHANE	<.020	.020	MG/L	10/14/91	SS
1,1-DICHLOROETHYLENE	<.020	.020	MG/L	10/14/91	SS
METHYL ETHYL KETONE	<.020	.020	MG/L	10/14/91	SS
TETRACHLOROETHYLENE	<.020	.020	MG/L	10/14/91	SS
TRICHLOROETHYLENE	<.020	.020	MG/L	10/14/91	SS
VINYL CHLORIDE	<.020	.020	MG/L	10/14/91	SS
O-CRESOL	<.001	.001	MG/L	10/14/91	SS
M-CRESOL	<.001	.001	MG/L	10/14/91	SS
P-CRESOL	<.001	.001	MG/L	10/14/91	SS
1,4-DICHLOROBENZENE	<.001	.001	MG/L	10/14/91	SS
2,4-DINITROTOLUENE	<.001	.001	MG/L	10/14/91	SS
HEXACHLOROBENZENE	<.001	.001	MG/L	10/14/91	SS
HEXACHLORO-1,3-BUTADIENE	<.001	.001	MG/L	10/14/91	SS
HEXACHLOROETHANE	<.001	.001	MG/L	10/14/91	SS
NITROBENZENE	<.001	.001	MG/L	10/14/91	SS
PENTACHLOROPHENOL	<.001	.001	MG/L	10/14/91	SS
PYRIDINE	<.001	.001	MG/L	10/14/91	SS
2,4,5-TRICHLOROPHENOL	<.001	.001	MG/L	10/14/91	SS
2,4,6-TRICHLOROPHENOL	<.001	.001	MG/L	10/14/91	SS
Surrogates					
NITROBENZENE-d5	76	Min: 35	Max: 114		
2-FLUOROBIPHENYL	72	Min: 43	Max: 116		
TERPHENYL-d14	62	Min: 33	Max: 141		
PHENOL-d5	66	Min: 10	Max: 94		
2-FLUOROPHENOL	75	Min: 21	Max: 100		



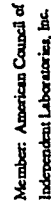
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<u>Units</u>	<u>Analyzed</u>	<u>By</u>
MG/KG	10/11/91	PV

Collected:

<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
<0.1	0.1	MG/KG	10/07/91	DD
<0.1	0.1	MG/KG	10/07/91	DD
<0.1	0.1	MG/KG	10/07/91	DD
<0.1	0.1	MG/KG	10/07/91	DD
<.020	.020	MG/L	10/10/91	OS
<.020	.020	MG/L	10/10/91	OS
<.020	.020	MG/L	10/10/91	OS
<.020	.020	MG/L	10/10/91	OS
<.020	.020	MG/L	10/10/91	OS
<.020	.020	MG/L	10/10/91	OS
<10	10	MG/L	10/10/91	OS
<10	10	MG/L	10/10/91	OS
<.020	.020	MG/L	10/10/91	OS
<.020	.020	MG/L	10/10/91	OS
<.020	.020	MG/L	10/10/91	OS
<10	10	MG/L	10/10/91	OS
<.020	.020	MG/L	10/10/91	OS
<10	10	MG/L	10/10/91	OS
<.001	.001	MG/L	10/10/91	OS
<.020	.020	MG/L	10/10/91	OS
<.020	.020	MG/L	10/10/91	OS



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
ISOBUTANOL	<10	10	MG/L	10/10/91	OS
2-ETHOXYETHANOL	<10	10	MG/L	10/10/91	OS
2-NITROPROPANE	<.020	.020	MG/L	10/10/91	OS
Surrogates					
4-BROMOFLUOROBENZENE	103	Min: 86	Max: 115		
1,2-DICHLOROETHANE-d4	104	Min: 76	Max: 114		
TOLUENE-d8	104	Min: 88	Max: 110		
TCLP METALS					
ARSENIC	<0.005	0.005	MG/L		JC
BARIUM	<0.50	0.50	MG/L		JC
CADMIUM	0.014	0.003	MG/L		JC
CHROMIUM	<0.02	0.02	MG/L		JC
LEAD	0.21	0.10	MG/L		JC
MERCURY	<0.0002	0.0002	MG/L		JC
SELENIUM	<0.005	0.005	MG/L		JC
SILVER	<0.010	0.010	MG/L		JC
TCLP ORGANICS ENRON LIST					
BENZENE	<.020	.020	MG/L	10/14/91	SS
CARBON TETRACHLORIDE	<.020	.020	MG/L	10/14/91	SS
CHLOROBENZENE	<.020	.020	MG/L	10/14/91	SS
CHLOROFORM	<.020	.020	MG/L	10/14/91	SS
1,2-DICHLOROETHANE	<.020	.020	MG/L	10/14/91	SS
1,1-DICHLOROETHYLENE	<.020	.020	MG/L	10/14/91	SS
METHYL ETHYL KETONE	<.020	.020	MG/L	10/14/91	SS
TETRACHLOROETHYLENE	<.020	.020	MG/L	10/14/91	SS
TRICHLOROETHYLENE	<.020	.020	MG/L	10/14/91	SS
VINYL CHLORIDE	<.020	.020	MG/L	10/14/91	SS
O-CRESOL	<.001	.001	MG/L	10/14/91	SS

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Test Description	Result	Limit	Units	Analyzed	By
M-CRESOL	<.001	.001	MG/L	10/14/91	SS
P-CRESOL	<.001	.001	MG/L	10/14/91	SS
1,4-DICHLOROBENZENE	<.001	.001	MG/L	10/14/91	SS
2,4-DINITROTOLUENE	<.001	.001	MG/L	10/14/91	SS
HEXACHLOROBENZENE	<.001	.001	MG/L	10/14/91	SS
HEXACHLORO-1,3-BUTADIENE	<.001	.001	MG/L	10/14/91	SS
HEXACHLOROETHANE	<.001	.001	MG/L	10/14/91	SS
NITROBENZENE	<.001	.001	MG/L	10/14/91	SS
PENTACHLOROPHENOL	<.001	.001	MG/L	10/14/91	SS
PYRIDINE	<.001	.001	MG/L	10/14/91	SS
2,4,5-TRICHLOROPHENOL	<.001	.001	MG/L	10/14/91	SS
2,4,6-TRICHLOROPHENOL	<.001	.001	MG/L	10/14/91	SS
Surrogates					
NITROBENZENE-d5	34 Q	Min: 35	Max: 114		
2-FLUOROBIPHENYL	31 Q	Min: 43	Max: 116		
TERPHENYL-d14	30 Q	Min: 33	Max: 141		
PHENOL-d5	32	Min: 10	Max: 94		
2-FLUOROPHENOL	39	Min: 21	Max: 100		
TOTAL REC PET HYDROCARBONS	40	5.0	MG/KG	10/11/91	PV

Collected:

Sample: 11A BH-14 3.1 - 4.4

Test Description	Result	Limit	Units	Analyzed	By
BENZENE, TOLUENE, EBENZ, XYLE		0.1			
BENZENE	<0.1	0.1	MG/KG	10/08/91	DD
TOLUENE	<0.1	0.1	MG/KG	10/08/91	DD



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
ETHYL BENZENE	0.81	0.1	MG/KG	10/08/91	DD
XYLENES	0.54	0.1	MG/KG	10/08/91	DD
TCLP F SERIES ENRON LIST					
METHYLENE CHLORIDE	<.020	.020	MG/L	10/10/91	OS
1,1,1-TRICHLOROETHANE	<.020	.020	MG/L	10/10/91	OS
TRICHLORO-TRIFLUOROETHANE	<.020	.020	MG/L	10/10/91	OS
ORTHO-DICHLOROBENZENE	<.020	.020	MG/L	10/10/91	OS
TRICHLOROFLUOROMETHANE	<.020	.020	MG/L	10/10/91	OS
XYLENE	<.020	.020	MG/L	10/10/91	OS
ACETONE	<10	10	MG/L	10/10/91	OS
ETHYL ACETATE	<10	10	MG/L	10/10/91	OS
ETHYL BENZENE	<.020	.020	MG/L	10/10/91	OS
ETHYL ETHER	<.020	.020	MG/L	10/10/91	OS
METHYL ISOBUTYL KETONE	<.020	.020	MG/L	10/10/91	OS
n-BUTYL ALCOHOL	<10	10	MG/L	10/10/91	OS
CYCLOHEXANONE	<.020	.020	MG/L	10/10/91	OS
METHANOL	<10	10	MG/L	10/10/91	OS
CRESYLIC ACID	<.001	.001	MG/L	10/10/91	OS
TOLUENE	<.020	.020	MG/L	10/10/91	OS
CARBON DISULFIDE	<.020	.020	MG/L	10/10/91	OS
ISOBUTANOL	<10	10	MG/L	10/10/91	OS
2-ETHOXYETHANOL	<10	10	MG/L	10/10/91	OS
2-NITROPROPANE	<.020	.020	MG/L	10/10/91	OS
Surrogates					
4-BROMOFLUOROBENZENE	106	Min: 86	Max: 115		
1,2-DICHLOROETHANE-d4	102	Min: 76	Max: 114		
TOLUENE-d8	105	Min: 88	Max: 110		
TCLP METALS					



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Test Description

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
ARSENIC	0.009	0.005	MG/L		JC
BARIUM	<0.50	0.50	MG/L		JC
CADMIUM	0.012	0.003	MG/L		JC
CHROMIUM	<0.02	0.02	MG/L		JC
LEAD	0.18	0.10	MG/L		JC
MERCURY	<0.0002	0.0002	MG/L		JC
SELENIUM	<0.005	0.005	MG/L		JC
SILVER	<0.010	0.010	MG/L		JC
TCLP ORGANICS ENRON LIST					
BENZENE	<.020	.020	MG/L	10/14/91	SS
CARBON TETRACHLORIDE	<.020	.020	MG/L	10/14/91	SS
CHLOROBENZENE	<.020	.020	MG/L	10/14/91	SS
CHLOROFORM	<.020	.020	MG/L	10/14/91	SS
1,2-DICHLOROETHANE	<.020	.020	MG/L	10/14/91	SS
1,1-DICHLOROETHYLENE	<.020	.020	MG/L	10/14/91	SS
METHYL ETHYL KETONE	<.020	.020	MG/L	10/14/91	SS
TETRACHLOROETHYLENE	<.020	.020	MG/L	10/14/91	SS
TRICHLOROETHYLENE	<.020	.020	MG/L	10/14/91	SS
VINYL CHLORIDE	<.020	.020	MG/L	10/14/91	SS
O-CRESOL	<.001	.001	MG/L	10/14/91	SS
M-CRESOL	<.001	.001	MG/L	10/14/91	SS
P-CRESOL	<.001	.001	MG/L	10/14/91	SS
1,4-DICHLOROBENZENE	<.001	.001	MG/L	10/14/91	SS
2,4-DINITROTOLUENE	<.001	.001	MG/L	10/14/91	SS
HEXACHLOROBENZENE	<.001	.001	MG/L	10/14/91	SS
HEXACHLORO-1,3-BUTADIENE	<.001	.001	MG/L	10/14/91	SS
HEXACHLOROETHANE	<.001	.001	MG/L	10/14/91	SS
NITROBENZENE	<.001	.001	MG/L	10/14/91	SS

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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
PENTACHLOROPHENOL	<.001	.001	MG/L	10/14/91	SS
PYRIDINE	<.001	.001	MG/L	10/14/91	SS
2,4,5-TRICHLOROPHENOL	<.001	.001	MG/L	10/14/91	SS
2,4,6-TRICHLOROPHENOL	<.001	.001	MG/L	10/14/91	SS
Surrogates					
NITROBENZENE-d5	71	Min: 35	Max: 114		
2-FLUOROBIPHENYL	70	Min: 43	Max: 116		
TERPHENYL-d14	22 Q	Min: 33	Max: 141		
PHENOL-d5	62	Min: 10	Max: 94		
2-FLUOROPHENOL	72	Min: 21	Max: 100		
TOTAL REC PET HYDROCARBONS	1200	5.0	MG/KG	10/11/91	PV

Sample: 12A BH-17 0.2 - 0.9

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
BENZENE, TOLUENE, EBENZ, XYLE		0.1			
BENZENE	<0.1	0.1	MG/KG	10/08/91	DD
TOLUENE	<0.1	0.1	MG/KG	10/08/91	DD
ETHYL BENZENE	<0.1	0.1	MG/KG	10/08/91	DD
XYLENES	<0.1	0.1	MG/KG	10/08/91	DD
TCLP F SERIES ENRON LIST					
METHYLENE CHLORIDE	<.020	.020	MG/L	10/10/91	OS
1,1,1-TRICHLOROETHANE	<.020	.020	MG/L	10/10/91	OS
TRICHLORO-TRIFLUOROETHANE	<.020	.020	MG/L	10/10/91	OS
ORTHO-DICHLOROBENZENE	<.020	.020	MG/L	10/10/91	OS
TRICHLOROFLUOROMETHANE	<.020	.020	MG/L	10/10/91	OS

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Test Description

XYLENE
ACETONE
ETHYL ACETATE
ETHYL BENZENE
ETHYL ETHER
METHYL ISOBUTYL KETONE
n-BUTYL ALCOHOL
CYCLOHEXANONE
METHANOL
CRESYLIC ACID
TOLUENE
CARBON DISULFIDE
ISOBUTANOL
2-ETHOXYETHANOL
2-NITROPROPANE

Surrogates

4-BROMOFLUOROBENZENE
1,2-DICHLOROETHANE-d4
TOLUENE-d8

TCLP METALS

ARSENIC
BARIUM
CADMIUM
CHROMIUM
LEAD
MERCURY
SELENIUM
SILVER

<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
<.020.	.020	MG/L	10/10/91	OS
<10	10	MG/L	10/10/91	OS
<10	10	MG/L	10/10/91	OS
<.020	.020	MG/L	10/10/91	OS
<.020	.020	MG/L	10/10/91	OS
<.020	.020	MG/L	10/10/91	OS
<10	10	MG/L	10/10/91	OS
<.020	.020	MG/L	10/10/91	OS
<10	10	MG/L	10/10/91	OS
<.001	.001	MG/L	10/10/91	OS
<.020	.020	MG/L	10/10/91	OS
<.020	.020	MG/L	10/10/91	OS
<10	10	MG/L	10/10/91	OS
<10	10	MG/L	10/10/91	OS
<.020	.020	MG/L	10/10/91	OS
105	Min: 86	Max: 115		
108	Min: 76	Max: 114		
105	Min: 88	Max: 110		
<0.005	0.005	MG/L		JC
<0.50	0.50	MG/L		JC
0.005	0.003	MG/L		JC
<0.02	0.02	MG/L		JC
0.16	0.10	MG/L		JC
<0.0002	0.0002	MG/L		JC
<0.005	0.005	MG/L		JC
<0.010	0.010	MG/L		JC



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
TCLP ORGANICS ENRON LIST					
BENZENE	<.020	.020	MG/L	10/14/91	SS
CARBON TETRACHLORIDE	<.020	.020	MG/L	10/14/91	SS
CHLOROBENZENE	<.020	.020	MG/L	10/14/91	SS
CHLOROFORM	<.020	.020	MG/L	10/14/91	SS
1,2-DICHLOROETHANE	<.020	.020	MG/L	10/14/91	SS
1,1-DICHLOROETHYLENE	<.020	.020	MG/L	10/14/91	SS
METHYL ETHYL KETONE	<.020	.020	MG/L	10/14/91	SS
TETRACHLOROETHYLENE	<.020	.020	MG/L	10/14/91	SS
TRICHLOROETHYLENE	<.020	.020	MG/L	10/14/91	SS
VINYL CHLORIDE	<.020	.020	MG/L	10/14/91	SS
O-CRESOL	<.001	.001	MG/L	10/14/91	SS
M-CRESOL	<.001	.001	MG/L	10/14/91	SS
P-CRESOL	<.001	.001	MG/L	10/14/91	SS
1,4-DICHLOROBENZENE	<.001	.001	MG/L	10/14/91	SS
2,4-DINITROTOLUENE	<.001	.001	MG/L	10/14/91	SS
HEXACHLOROBENZENE	<.001	.001	MG/L	10/14/91	SS
HEXACHLORO-1,3-BUTADIENE	<.001	.001	MG/L	10/14/91	SS
HEXACHLOROETHANE	<.001	.001	MG/L	10/14/91	SS
NITROBENZENE	<.001	.001	MG/L	10/14/91	SS
PENTACHLOROPHENOL	<.001	.001	MG/L	10/14/91	SS
PYRIDINE	<.001	.001	MG/L	10/14/91	SS
2,4,5-TRICHLOROPHENOL	<.001	.001	MG/L	10/14/91	SS
2,4,6-TRICHLOROPHENOL	<.001	.001	MG/L	10/14/91	SS
Surrogates					
NITROBENZENE-d5	82	Min: 35	Max: 114		
2-FLUOROBIPHENYL	80	Min: 43	Max: 116		
TERPHENYL-d14	78	Min: 33	Max: 141		
PHENOL-d5	63	Min: 10	Max: 94		
2-FLUOROPHENOL	66	Min: 21	Max: 100		

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Test Description

TOTAL REC PET HYDROCARBONS

Result
<5.0

Limit
5.0

Units Analyzed By
MG/KG 10/11/91 PV



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REGULAR TEST RESULTS BY TEST

TOTAL REC PET HYDROCARBONS
Method: EPA 418.1

Minimum: 5.0 Maximum: 100

<u>Sample</u>	<u>Sample Description</u>	<u>Result</u>	<u>Units</u>	<u>Extracted</u>	<u>Analyzed</u>	<u>By</u>
01A	BH-14 1.0 - 2.8	1600	MG/KG	10/11/91	10/14/91	PV
02A	BH-4 51.0 - 51.3	<5.0	MG/KG	10/11/91	10/11/91	PV
03A	BH-12 0.8 - 2.1	1400	MG/KG	10/11/91	10/11/91	PV
04A	BH-11 1.0 - 2.8	<5.0	MG/KG	10/11/91	10/11/91	PV
05A	BH-4 0 - 2.6	<5.0	MG/KG	10/11/91	10/11/91	PV
06A	BH-10 0 - 2.0	<5.0	MG/KG	10/11/91	10/11/91	PV
07A	BH-13 1.0 - 2.7	<5.0	MG/KG	10/11/91	10/11/91	PV
08A	BH-18 0.5 - 2.6	3500	MG/KG	10/11/91	10/11/91	PV
09A	BH-15 0.7 - 1.4	120	MG/KG	10/11/91	10/11/91	PV
10A	BH-16 0 - 1.2	40	MG/KG	10/11/91	10/11/91	PV
11A	BH-14 3.1 - 4.4	1200	MG/KG	10/11/91	10/11/91	PV
12A	BH-17 0.2 - 0.9	<5.0	MG/KG	10/11/91	10/11/91	PV



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TEST METHODOLOGIES

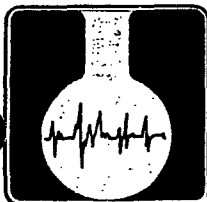
TCLP METALS: USEPA 200 SERIES METHODOLOGY

TCLP EXTRACTION: USEPA METHOD # 1311

BENZENE, TOLUENE, ETHYLBENZENE, XYLENES: USEPA METHOD # 602/8020
USEPA METHOD # 418.1



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ASSAIGAI ANALYTICAL LABORATORIES

WORK ORDER
8414

☐ HAZARDOUS ☐ NON-HAZARDOUS		DATE RECEIVED 10/1/91	ESTIMATED COST
CUSTOMER P.O. NUMBER		TIME RECEIVED 9:00	DUE DATE 10/15/91
ACCOUNT INFORMATION			
CUSTOMER'S NAME Environ / JWPL		CONTACT Mike Fenece	
ADDRESS		PHONE NUMBER 397-6000	
CITY / STATE / ZIP HLLS.			
PARTY RESPONSIBLE FOR PAYMENT IF OTHER THAN ABOVE			ACCOUNT STATUS
NAME		CONTACT	
ADDRESS		PHONE NUMBER	
CITY / STATE / ZIP		PAYMENT REC'D. ☒ OPEN ACCOUNT ☒ CASH ☐ CHECK NUMBER ☐	
SPECIAL BILLING INSTRUCTIONS			
SAMPLE INFORMATION			
TYPE OF SAMPLE	NO. OF SAMPLES	*TURN AROUND TIME	SAMPLE IDENTIFICATION AND / OR SAMPLE SITE
☐ WATER ☒ SOIL ☐ OIL ☐ SLUDGE ☐ OTHER	12	☒ REGULAR (10 WKG DAYS) ☐ RUSH (3 DAYS) ☐ EMERGENCY (STAT)	Hobbs 3160
	NO. OF CONTAINERS 12		
*(SUBJECT TO WORK LOG)			
SAMPLE DELIVERED BY FED X		SIGNATURE	DATE 10/1/91
ANALYSIS REQUEST			
WORK DESCRIPTION			
TRPA-S, BTEX, TCLP-O, -2, -F, -2, -E			
SPECIAL INSTRUCTIONS			
BILLING: ☐ PICKUP ☐ MAIL		LOGGED IN BY CQ K	

TRANSWESTERN PIPELINE COMPANY

CHAIN OF CUSTODY

District: Hobbs 5160

Date: 9-30-91

Sample Location
Valve or Receiver No.

Vol. Collect.
During Flush

Sampler

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

SAMPLE ID NUMBER	SOLVENT USED	SAMPLE ICED	ANALYSES REQUESTED
BH-14 3.1-4.4	—	yes	TRPH / BTX / TCLP-O-M-F
BH-17 0.2-0.9	—	yes	TRPH / BTX / TCLP-O-M-F

Relinquished By Michael A. Keane
Relinquished To Federal Express

Date 9-30-91
Date 9-30-91

Relinquished By _____
Relinquished To _____

Date _____
Date _____

Relinquished By _____
Relinquished To _____

Date _____
Date _____

Relinquished By _____
Relinquished To _____

Date _____
Date _____

Laboratory: Assai
Received: mg

Date 10/1/91

TRANSWESTERN PIPELINE COMPANY

CHAIN OF CUSTODY

District: Hobbs 5160

Date: 9-30-91

Sample Location
Valve or Receiver No.

Vol. Collect.
During Flush

Sampler

<u>SAMPLE ID NUMBER</u>	<u>SOLVENT USED</u>	<u>SAMPLE ICED</u>	<u>ANALYSES REQUESTED</u>
BH-14 1.0-2.8	—	yes	TRPH/BTEX/ITCLP-O-M-F
BH-4 51.0-51.3	—	yes	TRPH/BTEX/ITCLP-O-M-F
BH-12 0.8-2.1	—	yes	TRPH/BTEX/ITCLP-O-M-F
BH-11 1.0-2.8'	—	yes	TRPH/BTEX/ITCLP-O-M-F
BH-4 0-2.6'	—	yes	TRPH/BTEX/ITCLP-O-M-F
BH-10 0-2.0'	—	yes	TRPH/BTEX/ITCLP-O-M-F
BH-13 1.0-2.7'	—	yes	TRPH/BTEX/ITCLP-O-M-F
BH-18 0.5-2.6	—	yes	TRPH/BTEX/ITCLP-O-M-F
BH-15 0.7-1.4	—	yes	TRPH/BTEX/ITCLP-O-M-F
BH-16 0-1.2	—	yes	TRPH/BTEX/ITCLP-O-M-F

Relinquished By Michael D'Heene

Date 9-30-91

Relinquished To Federal Express

Date 9-30-91

Relinquished By _____

Date _____

Relinquished To _____

Date _____

Relinquished By _____

Date _____

Relinquished To _____

Date _____

Relinquished By _____

Date _____

Relinquished To _____

Date _____

Laboratory: Assayan

Received: 2974

Date 10/1/91

Assaigai Analytical Labs
7300 Jefferson NE
Albuquerque, NM 87109

Attn: SYED RIZVI
Phone: (505) 345-8964

ENRON/TRANSWESTERN PIPELINE
HOBBS PLANT
2626 WEST MARLAND
HOBBS, NM 88240
Attn: MIKE KNEESE
Invoice Number: 912308

Order #: 91-10-042
Date: 10/18/91 08:57
Work ID: HOBBS S160
Date Received: 10/03/91
Date Completed: 10/17/91
8441

SAMPLE BH-20 35.2 - 35.6 RECEIVED BROKEN SAMPLE TRANSFERRED
TO OTHER CONTAINER.
SAMPLE BH-20 31.4 - 31.7 RECEIVED CRACKED, SAMPLE REMAINED
INTACT.

SAMPLE IDENTIFICATION

Sample Number	Sample Description
01	BH-20 4.8'-5.5'
03	BH-20 35.2'-35.6'
05	BH-20 50.0'-50.3'
07	BH-14 7.9'-9.2'
09	BH-14 51.3'-51.7'
11	BH-19 58.1'-58.5'

Sample Number	Sample Description
02	BH-20 21.3'-21.6'
04	BH-20 31.4'-31.7'
06	BH-14 7.2'-7.6'
08	BH-14 29.9'-30.3'
10	EP-OFF-1



Order # 91-10-042
10/18/91 08:57

Assaigai Analytical Labs

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QUESTIONS ABOUT THIS REPORT SHOULD BE ADDRESSED TO:
LABORATORY OPERATIONS MANAGER/ASSAIGAI ANALYTICAL
7300 JEFFERSON N.E., ALBUQUERQUE, N.M. 87109

Syed Rizvi

Certified By
SYED N. RIZVI



Member: American Council of
Independent Laboratories, Inc.

Order # 91-10-042
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Assaigai Analytical Labs

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Sample: 01A BH-20 4.8'-5.5'

Collected: 10/03/91

TEST RESULTS BY SAMPLE

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
BENZENE, TOLUENE, EBENZ, XYLE					
BENZENE	<.01	0.1	MG/KG	10/09/91	DD
TOLUENE	<.01	0.1	MG/KG	10/09/91	DD
ETHYL BENZENE	<.01	0.1	MG/KG	10/09/91	DD
XYLENES	<.01	0.1	MG/KG	10/09/91	DD
TCLP F SERIES ENRON LIST					
METHYLENE CHLORIDE	<.020	.020	MG/L	10/17/91	SS
1,1,1-TRICHLOROETHANE	<.020	.020	MG/L	10/17/91	SS
TRICHLORO-TRIFLUOROETHANE	<.020	.020	MG/L	10/17/91	SS
ORTHO-DICHLOROBENZENE	<.020	.020	MG/L	10/17/91	SS
TRICHLOROFLUOROMETHANE	<.020	.020	MG/L	10/17/91	SS
XYLENE	<.020	.020	MG/L	10/17/91	SS
ACETONE	<10	10	MG/L	10/17/91	SS
ETHYL ACETATE	<10	10	MG/L	10/17/91	SS
ETHYL BENZENE	<.020	.020	MG/L	10/17/91	SS
ETHYL ETHER	<.020	.020	MG/L	10/17/91	SS
METHYL ISOBUTYL KETONE	<.020	.020	MG/L	10/17/91	SS
n-BUTYL ALCOHOL	<10	10	MG/L	10/17/91	SS
CYCLOHEXANONE	<.020	.020	MG/L	10/17/91	SS
METHANOL	<10	10	MG/L	10/17/91	SS
CRESYLIC ACID	<.001	.001	MG/L	10/17/91	SS
TOLUENE	<.020	.020	MG/L	10/17/91	SS
CARBON DISULFIDE	<.020	.020	MG/L	10/17/91	SS



Order # 91-10-042
10/18/91 08:57

Assaigai Analytical Labs

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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
ISOBUTANOL	<10	10	MG/L	10/17/91	SS
2-ETHOXYETHANOL	<10	10	MG/L	10/17/91	SS
2-NITROPROPANE	<.020	.020	MG/L	10/17/91	SS
Surrogates					
4-BROMOFLUOROBENZENE	97	Min: 86	Max: 115		
1,2-DICHLOROETHANE-d4	73 Q	Min: 76	Max: 114		
TOLUENE-d8	106	Min: 88	Max: 110		
TCCLP METALS					
ARSENIC	0.044	0.005	MG/L		JB
BARIUM	3.60	0.50	MG/L		JB
CADMIUM	0.026	0.003	MG/L		JB
CHROMIUM	0.04	0.02	MG/L		JB
LEAD	<0.10	0.10	MG/L		JB
MERCURY	<0.0002	0.0002	MG/L		JB
SELENIUM	<0.005	0.005	MG/L		JB
SILVER	0.033	0.010	MG/L		JB
TCCLP ORGANICS ENRON LIST					
BENZENE	<.020	.020	MG/L	10/15/91	SS
CARBON TETRACHLORIDE	<.020	.020	MG/L	10/15/91	SS
CHLOROBENZENE	<.020	.020	MG/L	10/15/91	SS
CHLOROFORM	<.020	.020	MG/L	10/15/91	SS
1,2-DICHLOROETHANE	<.020	.020	MG/L	10/15/91	SS
1,1-DICHLOROETHYLENE	<.020	.020	MG/L	10/15/91	SS
METHYL ETHYL KETONE	<.020	.020	MG/L	10/15/91	SS
TETRACHLOROETHYLENE	<.020	.020	MG/L	10/15/91	SS
TRICHLOROETHYLENE	<.020	.020	MG/L	10/15/91	SS
VINYL CHLORIDE	<.020	.020	MG/L	10/15/91	SS
O-CRESOL	<.001	.001	MG/L	10/15/91	SS



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Assaigai Analytical Labs

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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
M-CRESOL	<.001	.001	MG/L	10/15/91	SS
P-CRESOL	<.001	.001	MG/L	10/15/91	SS
1,4-DICHLOROBENZENE	<.001	.001	MG/L	10/15/91	SS
2,4-DINITROTOLUENE	<.001	.001	MG/L	10/15/91	SS
HEXACHLOROBENZENE	<.001	.001	MG/L	10/15/91	SS
HEXACHLORO-1,3-BUTADIENE	<.001	.001	MG/L	10/15/91	SS
HEXACHLOROETHANE	<.001	.001	MG/L	10/15/91	SS
NITROBENZENE	<.001	.001	MG/L	10/15/91	SS
PENTACHLOROPHENOL	<.001	.001	MG/L	10/15/91	SS
PYRIDINE	<.001	.001	MG/L	10/15/91	SS
2,4,5-TRICHLOROPHENOL	<.001	.001	MG/L	10/15/91	SS
2,4,6-TRICHLOROPHENOL	<.001	.001	MG/L	10/15/91	SS
Surrogates					
NITROBENZENE-d5	49	Min: 35	Max: 114		
2-FLUOROBIPHENYL	53	Min: 43	Max: 116		
TERPHENYL-d14	61	Min: 33	Max: 141		
PHENOL-d5	17	Min: 10	Max: 94		
2-FLUOROPHENOL	30	Min: 21	Max: 100		
TOTAL REC PET HYDROCARBONS	<5.0	5.0	MG/KG	10/14/91	PV

Sample: 02A BH-20 21.3'-21.6'

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
BENZENE, TOLUENE, EBENZ, XYLE		0.1			
BENZENE	<0.1	0.1	MG/KG	10/09/91	DD
TOLUENE	<0.1	0.1	MG/KG	10/09/91	DD



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
ETHYL BENZENE	<0.1	0.1	MG/KG	10/09/91	DD
XYLENES	<0.1	0.1	MG/KG	10/09/91	DD
TCLP F SERIES ENRON LIST					
METHYLENE CHLORIDE	<.020	.020	MG/L	10/17/91	SS
1,1,1-TRICHLOROETHANE	<.020	.020	MG/L	10/17/91	SS
TRICHLORO-TRIFLUOROETHANE	<.020	.020	MG/L	10/17/91	SS
ORTHO-DICHLOROBENZENE	<.020	.020	MG/L	10/17/91	SS
TRICHLOROFLUOROMETHANE	<.020	.020	MG/L	10/17/91	SS
XYLENE	<.020	.020	MG/L	10/17/91	SS
ACETONE	<10	10	MG/L	10/17/91	SS
ETHYL ACETATE	<10	10	MG/L	10/17/91	SS
ETHYL BENZENE	<.020	.020	MG/L	10/17/91	SS
ETHYL ETHER	<.020	.020	MG/L	10/17/91	SS
METHYL ISOBUTYL KETONE	<.020	.020	MG/L	10/17/91	SS
n-BUTYL ALCOHOL	<10	10	MG/L	10/17/91	SS
CYCLOHEXANONE	<.020	.020	MG/L	10/17/91	SS
METHANOL	<10	10	MG/L	10/17/91	SS
CRESYLIC ACID	<.001	.001	MG/L	10/17/91	SS
TOLUENE	<.020	.020	MG/L	10/17/91	SS
CARBON DISULFIDE	<.020	.020	MG/L	10/17/91	SS
ISOBUTANOL	<10	10	MG/L	10/17/91	SS
2-ETHOXYETHANOL	<10	10	MG/L	10/17/91	SS
2-NITROPROPANE	<.020	.020	MG/L	10/17/91	SS
Surrogates					
4-BROMOFLUOROBENZENE	95	Min: 86	Max: 115		
1,2-DICHLOROETHANE-d4	82	Min: 76	Max: 114		
TOLUENE-d8	105	Min: 88	Max: 110		
TCLP METALS					



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
ARSENIC	0.014	0.005	MG/L		JB
BARIUM	<0.50	0.50	MG/L		JB
CADMIUM	0.027	0.003	MG/L		JB
CHROMIUM	0.04	0.02	MG/L		JB
LEAD	<0.10	0.10	MG/L		JB
MERCURY	<0.0002	0.0002	MG/L		JB
SELENIUM	<0.005	0.005	MG/L		JB
SILVER	0.030	0.010	MG/L		JB
TCPLP ORGANICS ENRON LIST					
BENZENE	<.020	.020	MG/L	10/15/91	SS
CARBON TETRACHLORIDE	<.020	.020	MG/L	10/15/91	SS
CHLOROBENZENE	<.020	.020	MG/L	10/15/91	SS
CHLOROFORM	<.020	.020	MG/L	10/15/91	SS
1,2-DICHLOROETHANE	<.020	.020	MG/L	10/15/91	SS
1,1-DICHLOROETHYLENE	<.020	.020	MG/L	10/15/91	SS
METHYL ETHYL KETONE	<.020	.020	MG/L	10/15/91	SS
TETRACHLOROETHYLENE	<.020	.020	MG/L	10/15/91	SS
TRICHLOROETHYLENE	<.020	.020	MG/L	10/15/91	SS
VINYL CHLORIDE	<.020	.020	MG/L	10/15/91	SS
O-CRESOL	<.001	.001	MG/L	10/15/91	SS
M-CRESOL	<.001	.001	MG/L	10/15/91	SS
P-CRESOL	<.001	.001	MG/L	10/15/91	SS
1,4-DICHLOROBENZENE	<.001	.001	MG/L	10/15/91	SS
2,4-DINITROTOLUENE	<.001	.001	MG/L	10/15/91	SS
HEXACHLOROBENZENE	<.001	.001	MG/L	10/15/91	SS
HEXACHLORO-1,3-BUTADIENE	<.001	.001	MG/L	10/15/91	SS
HEXACHLOROETHANE	<.001	.001	MG/L	10/15/91	SS
NITROBENZENE	<.001	.001	MG/L	10/15/91	SS



Order # 91-10-042
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Assaigai Analytical Labs

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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
PENTACHLOROPHENOL	<.001	.001	MG/L	10/15/91	SS
PYRIDINE	<.001	.001	MG/L	10/15/91	SS
2,4,5-TRICHLOROPHENOL	<.001	.001	MG/L	10/15/91	SS
2,4,6-TRICHLOROPHENOL	<.001	.001	MG/L	10/15/91	SS
Surrogates					
NITROBENZENE-d5	54	Min: 35	Max: 114		
2-FLUOROBIPHENYL	66	Min: 43	Max: 116		
TERPHENYL-d14	73	Min: 33	Max: 141		
PHENOL-d5	15	Min: 10	Max: 94		
2-FLUOROPHENOL	28	Min: 21	Max: 100		
TOTAL REC PET HYDROCARBONS	<5.0	5.0	MG/KG	10/14/91	PV

Sample: 03A BH-20 35.2'-35.6'

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
BENZENE, TOLUENE, EBENZ, XYLE		0.1			
BENZENE	<0.1	0.1	MG/KG	10/10/91	DD
TOLUENE	<0.1	0.1	MG/KG	10/10/91	DD
ETHYL BENZENE	<0.1	0.1	MG/KG	10/10/91	DD
XYLENES	<0.1	0.1	MG/KG	10/10/91	DD
TCLP F SERIES ENRON LIST					
METHYLENE CHLORIDE	<.020	.020	MG/L	10/17/91	SS
1,1,1-TRICHLOROETHANE	<.020	.020	MG/L	10/17/91	SS
TRICHLORO-TRIFLUOROETHANE	<.020	.020	MG/L	10/17/91	SS
ORTHO-DICHLOROBENZENE	<.020	.020	MG/L	10/17/91	SS
TRICHLOROFLUOROMETHANE	<.020	.020	MG/L	10/17/91	SS



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
XYLENE	<.020	.020	MG/L	10/17/91	SS
ACETONE	<10	10	MG/L	10/17/91	SS
ETHYL ACETATE	<10	10	MG/L	10/17/91	SS
ETHYL BENZENE	<.020	.020	MG/L	10/17/91	SS
ETHYL ETHER	<.020	.020	MG/L	10/17/91	SS
METHYL ISOBUTYL KETONE	<.020	.020	MG/L	10/17/91	SS
n-BUTYL ALCOHOL	<10	10	MG/L	10/17/91	SS
CYCLOHEXANONE	<.020	.020	MG/L	10/17/91	SS
METHANOL	<10	10	MG/L	10/17/91	SS
CRESYLIC ACID	<.001	.001	MG/L	10/17/91	SS
TOLUENE	<.020	.020	MG/L	10/17/91	SS
CARBON DISULFIDE	<.020	.020	MG/L	10/17/91	SS
ISOBUTANOL	<10	10	MG/L	10/17/91	SS
2-ETHOXYETHANOL	<10	10	MG/L	10/17/91	SS
2-NITROPROPANE	<.020	.020	MG/L	10/17/91	SS
Surrogates					
4-BROMOFLUOROBENZENE	99	Min: 86	Max: 115		
1,2-DICHLOROETHANE-d4	78	Min: 76	Max: 114		
TOLUENE-d8	100	Min: 88	Max: 110		
TCLP METALS					
ARSENIC	0.008	0.005	MG/L		JB
BARIUM	2.20	0.50	MG/L		JB
CADMIUM	<0.003	0.003	MG/L		JB
CHROMIUM	<0.02	0.02	MG/L		JB
LEAD	<0.10	0.10	MG/L		JB
MERCURY	<0.0002	0.0002	MG/L		JB
SELENIUM	<0.005	0.005	MG/L		JB
SILVER	0.015	0.010	MG/L		JB



Order # 91-10-042
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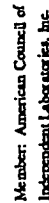
<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
TCLP ORGANICS ENRON LIST					
BENZENE	<.020	.020	MG/L	10/17/91	SS
CARBON TETRACHLORIDE	<.020	.020	MG/L	10/17/91	SS
CHLOROBENZENE	<.020	.020	MG/L	10/17/91	SS
CHLOROFORM	<.020	.020	MG/L	10/17/91	SS
1,2-DICHLOROETHANE	<.020	.020	MG/L	10/17/91	SS
1,1-DICHLOROETHYLENE	<.020	.020	MG/L	10/17/91	SS
METHYL ETHYL KETONE	<.020	.020	MG/L	10/17/91	SS
TETRACHLOROETHYLENE	<.020	.020	MG/L	10/17/91	SS
TRICHLOROETHYLENE	<.020	.020	MG/L	10/17/91	SS
VINYL CHLORIDE	<.020	.020	MG/L	10/17/91	SS
O-CRESOL	<.001	.001	MG/L	10/17/91	SS
M-CRESOL	<.001	.001	MG/L	10/17/91	SS
P-CRESOL	<.001	.001	MG/L	10/17/91	SS
1,4-DICHLOROBENZENE	<.001	.001	MG/L	10/17/91	SS
2,4-DINITROTOLUENE	<.001	.001	MG/L	10/17/91	SS
HEXACHLOROBENZENE	<.001	.001	MG/L	10/17/91	SS
HEXACHLORO-1,3-BUTADIENE	<.001	.001	MG/L	10/17/91	SS
HEXACHLOROETHANE	<.001	.001	MG/L	10/17/91	SS
NITROBENZENE	<.001	.001	MG/L	10/17/91	SS
PENTACHLOROPHENOL	<.001	.001	MG/L	10/17/91	SS
PYRIDINE	<.001	.001	MG/L	10/17/91	SS
2,4,5-TRICHLOROPHENOL	<.001	.001	MG/L	10/17/91	SS
2,4,6-TRICHLOROPHENOL	<.001	.001	MG/L	10/17/91	SS
Surrogates					
NITROBENZENE-d5	56	Min: 35	Max: 114		
2-FLUOROBIPHENYL	66	Min: 43	Max: 116		
TERPHENYL-d14	68	Min: 33	Max: 141		
PHENOL-d5	13	Min: 10	Max: 94		
2-FLUOROPHENOL	26	Min: 21	Max: 100		



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<u>Result</u>	<5.0
<u>Limit</u>	5.0

Collected:

[illegible]

Order # 91-10-042
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TEST METHODOLOGIES

TCCLP METALS: USEPA 200 SERIES METHODOLOGY

TCCLP EXTRACTION: USEPA METHOD # 1311

BENZENE, TOLUENE, ETHYLBENZENE, XYLENES: USEPA METHOD # 602/8020

USEPA METHOD # 418.1



Member: American Council of
Independent Laboratories, Inc.

TRANSWESTERN PIPELINE COMPANY

CHAIN OF CUSTODY

District: Hobbs 5160

Date: 10-1-91

Sample Location
Valve or Receiver No.

Vol. Collect.
During Flush

Sampler

_____	_____	_____
_____	_____	_____
_____	_____	_____

SAMPLE ID NUMBER	SOLVENT USED	SAMPLE ICED	ANALYSES REQUESTED
BH-20 4.8'- 5.5'		YES	TRPH/BTEX/TCLP-O-M-F * 8oz
BH-20 21.3-21.6		YES	TRPH/BTEX/TCLP-O-M-F 8oz
BH-20 35.2-35.6		YES	TRPH/BTEX/TCLP-O-M-F 8oz
BH-20 31.4-31.78		YES	TRPH/BTEX/TCLP-O-M-F 8oz
BH-20 50.0-50.3		YES	TRPH/BTEX/TCLP-O-M-F 8oz
BH-14 7.2-7.6		YES	TRPH/BTEX/TCLP-O-M-F 8oz
BH-14 7.9-9.2		YES	TRPH/BTEX/TCLP-O-M-F 8oz
BH-14 29.9-30.3		YES	TRPH/BTEX/TCLP-O-M-F 8oz
BH-14 51.3-51.7		YES	TRPH/BTEX/TCLP-O-M-F 8oz
EP-OF-1		YES	TCLP-M 8oz

Relinquished By Michael J. Kene

Date 10-2-91

Relinquished To Federal Express

Date 10-2-91

Relinquished By _____

Date _____

Relinquished To _____

Date _____

Relinquished By _____

Date _____

Relinquished To _____

Date _____

Relinquished By _____

Date _____

Relinquished By _____

Date _____

Laboratory: Asaigas

Received: Q2g

Date 10/3/91

STANDARD TURNAROUND

TRANSWESTERN PIPELINE COMPANY

CHAIN OF CUSTODY

District: HOBBS 5160

Date: 10-01-91

Sample Location
Valve or Receiver No.

Vol. Collect.
During Flush

Sampler

<u>SAMPLE ID NUMBER</u>	<u>SOLVENT USED</u>	<u>SAMPLE ICED</u>	<u>ANALYSES REQUESTED</u>
BH-19 58.1-58.5		YES	TRPH/BTEX/TCLP-O-M-F 8oz

Relinquished By Michael A. Heese Date 10-2-91
Relinquished To Federal Express Date 10-2-91

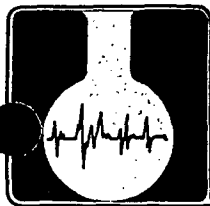
Relinquished By _____ Date _____
Relinquished To _____ Date _____

Relinquished By _____ Date _____
Relinquished To _____ Date _____

Relinquished By _____ Date _____
Relinquished By _____ Date _____

Laboratory: Assaigai
Received: CQ 75 Date 10/3/91

STANDARD TURNAROUND



ASSAIGAI ANALYTICAL LABORATORIES

WORK ORDER
8441

☐ HAZARDOUS ☐ NON-HAZARDOUS	DATE RECEIVED 10/3/91	ESTIMATED COST
CUSTOMER P.O. NUMBER	TIME RECEIVED	DUE DATE 10/17/91
ACCOUNT INFORMATION		
CUSTOMER'S NAME Enron/TWPC	CONTACT Mike Kneiss	
ADDRESS	PHONE NUMBER	
CITY / STATE / ZIP Hobbs.		
PARTY RESPONSIBLE FOR PAYMENT IF OTHER THAN ABOVE		ACCOUNT STATUS
NAME	CONTACT	PAYMENT REC'D.
ADDRESS	PHONE NUMBER	OPEN ACCOUNT ☒
CITY / STATE / ZIP		CASH ☐
		CHECK NUMBER ☐
SPECIAL BILLING INSTRUCTIONS		
SAMPLE INFORMATION		
TYPE OF SAMPLE	NO. OF SAMPLES	*TURN AROUND TIME
☐ WATER ☒ SOIL ☐ OIL ☐ SLUDGE ☐ OTHER	11 NO. OF CONTAINERS 11	☒ REGULAR (10 WKG DAYS) ☐ RUSH (3 DAYS) ☐ EMERGENCY (STAT) *(SUBJECT TO WORK LOG)
SAMPLE IDENTIFICATION AND / OR SAMPLE SITE Hobbs 5160		
SAMPLE DELIVERED BY Fed X		SIGNATURE DATE 10/3/91
ANALYSIS REQUEST		
WORK DESCRIPTION TRPH-5 BTEX TCLP-0, -2, -F, -E.		
SPECIAL INSTRUCTIONS		
BILLING: ☐ PICKUP ☐ MAIL		LOGGED IN BY CJF

Assaigai Analytical Labs
7300 Jefferson NE
Albuquerque, NM 87109

Attn: SYED RIZVI
Phone: (505)345-8964

ENRON/TRANSWESTERN PIPELINE
HOBBS PLANT
2626 WEST MARLAND
HOBBS, NM 88240
Attn: MIKE KNEESE
Invoice Number: 912309

Order #: 91-10-051
Date: 10/18/91 10:43
Work ID: DISTRICT HOBBS 5160
Date Received: 10/04/91
Date Completed: 10/18/91
8448

N/A: SURROGATE WAS LEFT BLANK ON SOME SAMPLES BECAUSE THE
RUN TIME ON THE GC/MS WAS SHORTENED.

SAMPLE IDENTIFICATION

Sample Number	Sample Description
01	BH-14 55.6 - 56.0
03	BH-12 3.4 - 3.9
05	BH-12 50.1 - 50.5
07	BH-21 15.0 - 15.3
09	BH-21 40.0 - 40.2

Sample Number	Sample Description
02	BH-12 25.9 - 26.3
04	BH-12 16.7 - 17.1
06	BH-21 0.6 - 1.6
08	BH-21 30.7 - 31.2
10	BH-21 51.2 - 51.5



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QUESTIONS ABOUT THIS REPORT SHOULD BE ADDRESSED TO:
LABORATORY OPERATIONS MANAGER/ASSAIGAI ANALYTICAL
7300 JEFFERSON N.E., ALBUQUERQUE, N.M. 87109

Syed Rizvi
Certified By
SYED N. RIZVI



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Sample: 01A BH-14 55.6 - 56.0

Collected:

TEST RESULTS BY SAMPLE

Test Description	Result	Limit	Units	Analyzed	By
BENZENE, TOLUENE, EBENZ, XYLE					
BENZENE	<.01	0.1	MG/KG	10/10/91	DD
TOLUENE	<.01	0.1	MG/KG	10/10/91	DD
ETHYL BENZENE	<.01	0.1	MG/KG	10/10/91	DD
XYLENES	<.01	0.1	MG/KG	10/10/91	DD
TCLP F SERIES ENRON LIST					
METHYLENE CHLORIDE	<.020	.020	MG/L	10/17/91	SS
1,1,1-TRICHLOROETHANE	<.020	.020	MG/L	10/17/91	SS
TRICHLORO-TRIFLUOROETHANE	<.020	.020	MG/L	10/17/91	SS
ORTHO-DICHLOROBENZENE	<.020	.020	MG/L	10/17/91	SS
TRICHLOROFLUOROMETHANE	<.020	.020	MG/L	10/17/91	SS
XYLENE	<.020	.020	MG/L	10/17/91	SS
ACETONE	<10	10	MG/L	10/17/91	SS
ETHYL ACETATE	<10	10	MG/L	10/17/91	SS
ETHYL BENZENE	<.020	.020	MG/L	10/17/91	SS
ETHYL ETHER	<.020	.020	MG/L	10/17/91	SS
METHYL ISOBUTYL KETONE	<.020	.020	MG/L	10/17/91	SS
n-BUTYL ALCOHOL	<10	10	MG/L	10/17/91	SS
CYCLOHEXANONE	<.020	.020	MG/L	10/17/91	SS
METHANOL	<10	10	MG/L	10/17/91	SS
CRESYLIC ACID	<.001	.001	MG/L	10/17/91	SS
TOLUENE	<.020	.020	MG/L	10/17/91	SS
CARBON DISULFIDE	<.020	.020	MG/L	10/17/91	SS



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Test Description	Result	Limit	Units	Analyzed	By
ISOBUTANOL	<10	10	MG/L	10/17/91	SS
2-ETHOXYETHANOL	<10	10	MG/L	10/17/91	SS
2-NITROPROPANE	<.020	.020	MG/L	10/17/91	SS
Surrogates					
4-BROMOFLUOROBENZENE	102	Min: 86	Max: 115		
1,2-DICHLOROETHANE-d4	75 Q	Min: 76	Max: 114		
TOLUENE-d8	104	Min: 88	Max: 110		
TCLP METALS					
ARSENIC	0.007	0.005	MG/L		JB
BARIUM	<0.50	0.50	MG/L		JB
CADMIUM	<0.003	0.003	MG/L		JB
CHROMIUM	0.030	0.020	MG/L		JB
LEAD	<0.100	0.100	MG/L		JB
MERCURY	<0.0002	0.0002	MG/L		JB
SELENIUM	<0.005	0.005	MG/L		JB
SILVER	0.014	0.010	MG/L		JB
TCLP ORGANICS ENRON LIST					
BENZENE	<.020	.020	MG/L	10/15/91	SS
CARBON TETRACHLORIDE	<.020	.020	MG/L	10/15/91	SS
CHLOROBENZENE	<.020	.020	MG/L	10/15/91	SS
CHLOROFORM	<.020	.020	MG/L	10/15/91	SS
1,2-DICHLOROETHANE	<.020	.020	MG/L	10/15/91	SS
1,1-DICHLOROETHYLENE	<.020	.020	MG/L	10/15/91	SS
METHYL ETHYL KETONE	<.020	.020	MG/L	10/15/91	SS
TETRACHLOROETHYLENE	<.020	.020	MG/L	10/15/91	SS
TRICHLOROETHYLENE	<.020	.020	MG/L	10/15/91	SS
VINYL CHLORIDE	<.020	.020	MG/L	10/15/91	SS
O-CRESOL	<.001	.001	MG/L	10/15/91	SS



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
M-CRESOL	<.001	.001	MG/L	10/15/91	SS
P-CRESOL	<.001	.001	MG/L	10/15/91	SS
1,4-DICHLOROBENZENE	<.001	.001	MG/L	10/15/91	SS
2,4-DINITROTOLUENE	<.001	.001	MG/L	10/15/91	SS
HEXACHLOROBENZENE	<.001	.001	MG/L	10/15/91	SS
HEXACHLORO-1,3-BUTADIENE	<.001	.001	MG/L	10/15/91	SS
HEXACHLOROETHANE	<.001	.001	MG/L	10/15/91	SS
NITROBENZENE	<.001	.001	MG/L	10/15/91	SS
PENTACHLOROPHENOL	<.001	.001	MG/L	10/15/91	SS
PYRIDINE	<.001	.001	MG/L	10/15/91	SS
2,4,5-TRICHLOROPHENOL	<.001	.001	MG/L	10/15/91	SS
2,4,6-TRICHLOROPHENOL	<.001	.001	MG/L	10/15/91	SS
Surrogates					
NITROBENZENE-d5	71	Min: 35	Max: 114		
2-FLUOROBIPHENYL	83	Min: 43	Max: 116		
TERPHENYL-d14	70	Min: 33	Max: 141		
PHENOL-d5	71	Min: 10	Max: 94		
2-FLUOROPHENOL	83	Min: 21	Max: 100		
TOTAL REC PET HYDROCARBONS	16	Min: 5.0	MG/KG	10/15/91	PV

Sample: 02A BH-12 25.9 - 26.3

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
BENZENE, TOLUENE, EBENZ, XYLE		0.1			
BENZENE	<0.1	0.1	MG/KG	10/10/91	DD
TOLUENE	<0.1	0.1	MG/KG	10/10/91	DD



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Test Description	Result	Limit	Units	Analyzed	By
ETHYL BENZENE	<0.1	0.1	MG/KG	10/10/91	DD
XYLENES	<0.1	0.1	MG/KG	10/10/91	DD
TCCLP F SERIES ENRON LIST					
METHYLENE CHLORIDE	<.020	.020	MG/L	10/17/91	SS
1,1,1-TRICHLOROETHANE	<.020	.020	MG/L	10/17/91	SS
TRICHLORO-TRIFLUOROETHANE	<.020	.020	MG/L	10/17/91	SS
ORTHO-DICHLOROBENZENE	<.020	.020	MG/L	10/17/91	SS
TRICHLOROFLUOROMETHANE	<.020	.020	MG/L	10/17/91	SS
XYLENE	<.020	.020	MG/L	10/17/91	SS
ACETONE	<10	10	MG/L	10/17/91	SS
ETHYL ACETATE	<10	10	MG/L	10/17/91	SS
ETHYL BENZENE	<.020	.020	MG/L	10/17/91	SS
ETHYL ETHER	<.020	.020	MG/L	10/17/91	SS
METHYL ISOBUTYL KETONE	<.020	.020	MG/L	10/17/91	SS
n-BUTYL ALCOHOL	<10	10	MG/L	10/17/91	SS
CYCLOHEXANONE	<.020	.020	MG/L	10/17/91	SS
METHANOL	<10	10	MG/L	10/17/91	SS
CRESYLIC ACID	<.001	.001	MG/L	10/17/91	SS
TOLUENE	<.020	.020	MG/L	10/17/91	SS
CARBON DISULFIDE	<.020	.020	MG/L	10/17/91	SS
ISOBUTANOL	<10	10	MG/L	10/17/91	SS
2-ETHOXYETHANOL	<10	10	MG/L	10/17/91	SS
2-NITROPROPANE	<.020	.020	MG/L	10/17/91	SS
Surrogates					
4-BROMOFLUOROBENZENE	96	Min: 86	Max: 115		
1,2-DICHLOROETHANE-d4	87	Min: 76	Max: 114		
TOLUENE-d8	107	Min: 88	Max: 110		
TCCLP METALS					



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
ARSENIC	0.011	0.005	MG/L		JB
BARIUM	<0.50	0.50	MG/L		JB
CADMIUM	<0.003	0.003	MG/L		JB
CHROMIUM	0.030	0.020	MG/L		JB
LEAD	<0.100	0.100	MG/L		JB
MERCURY	<0.0002	0.0002	MG/L		JB
SELENIUM	<0.005	0.005	MG/L		JB
SILVER	0.014	0.010	MG/L		JB
TCCLP ORGANICS ENRON LIST					
BENZENE	<.020	.020	MG/L	10/15/91	SS
CARBON TETRACHLORIDE	<.020	.020	MG/L	10/15/91	SS
CHLOROBENZENE	<.020	.020	MG/L	10/15/91	SS
CHLOROFORM	<.020	.020	MG/L	10/15/91	SS
1,2-DICHLOROETHANE	<.020	.020	MG/L	10/15/91	SS
1,1-DICHLOROETHYLENE	<.020	.020	MG/L	10/15/91	SS
METHYL ETHYL KETONE	<.020	.020	MG/L	10/15/91	SS
TETRACHLOROETHYLENE	<.020	.020	MG/L	10/15/91	SS
TRICHLOROETHYLENE	<.020	.020	MG/L	10/15/91	SS
VINYL CHLORIDE	<.020	.020	MG/L	10/15/91	SS
O-CRESOL	<.001	.001	MG/L	10/15/91	SS
M-CRESOL	<.001	.001	MG/L	10/15/91	SS
P-CRESOL	<.001	.001	MG/L	10/15/91	SS
1,4-DICHLOROBENZENE	<.001	.001	MG/L	10/15/91	SS
2,4-DINITROTOLUENE	<.001	.001	MG/L	10/15/91	SS
HEXACHLOROBENZENE	<.001	.001	MG/L	10/15/91	SS
HEXACHLORO-1,3-BUTADIENE	<.001	.001	MG/L	10/15/91	SS
HEXACHLOROETHANE	<.001	.001	MG/L	10/15/91	SS
NITROBENZENE	<.001	.001	MG/L	10/15/91	SS



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Test Description	Result	Limit	Units	Analyzed	By
PENTACHLOROPHENOL	<.001	.001	MG/L	10/15/91	SS
PYRIDINE	<.001	.001	MG/L	10/15/91	SS
2,4,5-TRICHLOROPHENOL	<.001	.001	MG/L	10/15/91	SS
2,4,6-TRICHLOROPHENOL	<.001	.001	MG/L	10/15/91	SS
Surrogates					
NITROBENZENE-d5	77	Min: 35	Max: 114		
2-FLUOROBIPHENYL	78	Min: 43	Max: 116		
TERPHENYL-d14	63	Min: 33	Max: 141		
PHENOL-d5	72	Min: 10	Max: 94		
2-FLUOROPHENOL	83	Min: 21	Max: 100		
TOTAL REC PET HYDROCARBONS	<5.0	5.0	MG/KG	10/15/91	PV

Sample: 03A BH-12 3.4 - 3.9

Collected:

Test Description	Result	Limit	Units	Analyzed	By
BENZENE, TOLUENE, EBENZ, XYLE					
BENZENE	<0.1	0.1	MG/KG	10/10/91	DD
TOLUENE	<0.1	0.1	MG/KG	10/10/91	DD
ETHYL BENZENE	<0.1	0.1	MG/KG	10/10/91	DD
XYLENES	<0.1	0.1	MG/KG	10/10/91	DD
TCLP F SERIES ENRON LIST					
METHYLENE CHLORIDE	<.020	.020	MG/L	10/17/91	SS
1,1,1-TRICHLOROETHANE	<.020	.020	MG/L	10/17/91	SS
TRICHLORO-TRIFLUOROETHANE	<.020	.020	MG/L	10/17/91	SS
ORTHO-DICHLOROBENZENE	<.020	.020	MG/L	10/17/91	SS
TRICHLOROFLUOROMETHANE	<.020	.020	MG/L	10/17/91	SS



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
XYLENE	<.020	.020	MG/L	10/17/91	SS
ACETONE	<10	10	MG/L	10/17/91	SS
ETHYL ACETATE	<10	10	MG/L	10/17/91	SS
ETHYL BENZENE	<.020	.020	MG/L	10/17/91	SS
ETHYL ETHER	<.020	.020	MG/L	10/17/91	SS
METHYL ISOBUTYL KETONE	<.020	.020	MG/L	10/17/91	SS
n-BUTYL ALCOHOL	<10	10	MG/L	10/17/91	SS
CYCLOHEXANONE	<.020	.020	MG/L	10/17/91	SS
METHANOL	<10	10	MG/L	10/17/91	SS
CRESYLIC ACID	.005	.001	MG/L	10/17/91	SS
TOLUENE	<.020	.020	MG/L	10/17/91	SS
CARBON DISULFIDE	<.020	.020	MG/L	10/17/91	SS
ISOBUTANOL	<10	10	MG/L	10/17/91	SS
2-ETHOXYETHANOL	<10	10	MG/L	10/17/91	SS
2-NITROPROPANE	<.020	.020	MG/L	10/17/91	SS
Surrogates					
4-BROMOFLUOROBENZENE	100	Min: 86	Max: 115		
1,2-DICHLOROETHANE-d4	80	Min: 76	Max: 114		
TOLUENE-d8	109	Min: 88	Max: 110		
TCLP METALS					
ARSENIC	0.020	0.005	MG/L		JB
BARIUM	3.18	0.50	MG/L		JB
CADMIUM	<0.003	0.003	MG/L		JB
CHROMIUM	<0.020	0.020	MG/L		JB
LEAD	<0.100	0.100	MG/L		JB
MERCURY	<0.0002	0.0002	MG/L		JB
SELENIUM	<0.005	0.005	MG/L		JB
SILVER	<0.010	0.010	MG/L		JB



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
TCLP ORGANICS ENRON LIST					
BENZENE	<.020	.020	MG/L	10/15/91	SS
CARBON TETRACHLORIDE	<.020	.020	MG/L	10/15/91	SS
CHLOROBENZENE	<.020	.020	MG/L	10/15/91	SS
CHLOROFORM	<.020	.020	MG/L	10/15/91	SS
1,2-DICHLOROETHANE	<.020	.020	MG/L	10/15/91	SS
1,1-DICHLOROETHYLENE	<.020	.020	MG/L	10/15/91	SS
METHYL ETHYL KETONE	<.020	.020	MG/L	10/15/91	SS
TETRACHLOROETHYLENE	<.020	.020	MG/L	10/15/91	SS
TRICHLOROETHYLENE	<.020	.020	MG/L	10/15/91	SS
VINYL CHLORIDE	<.020	.020	MG/L	10/15/91	SS
O-CRESOL	<.001	.001	MG/L	10/15/91	SS
M-CRESOL	.002	.001	MG/L	10/15/91	SS
P-CRESOL	.002	.001	MG/L	10/15/91	SS
1,4-DICHLOROBENZENE	<.001	.001	MG/L	10/15/91	SS
2,4-DINITROTOLUENE	<.001	.001	MG/L	10/15/91	SS
HEXACHLOROBENZENE	<.001	.001	MG/L	10/15/91	SS
HEXACHLORO-1,3-BUTADIENE	<.001	.001	MG/L	10/15/91	SS
HEXACHLOROETHANE	<.001	.001	MG/L	10/15/91	SS
NITROBENZENE	<.001	.001	MG/L	10/15/91	SS
PENTACHLOROPHENOL	<.001	.001	MG/L	10/15/91	SS
PYRIDINE	<.001	.001	MG/L	10/15/91	SS
2,4,5-TRICHLOROPHENOL	<.001	.001	MG/L	10/15/91	SS
2,4,6-TRICHLOROPHENOL	<.001	.001	MG/L	10/15/91	SS
Surrogates					
NITROBENZENE-d5	72	Min: 35		Max: 114	
2-FLUOROBIPHENYL	77	Min: 43		Max: 116	
TERPHENYL-d14	N/A	Min:		Max:	
PHENOL-d5	68	Min: 10		Max: 94	
2-FLUOROPHENOL	79	Min: 21		Max: 100	

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Test Description

TOTAL REC PET HYDROCARBONS

Result 100
Limit 5.0

Units MG/KG
Analyzed 10/15/91
By PV

Sample: 04A BH-12 16.7 - 17.1

Collected:

Test Description

BENZENE, TOLUENE, EBENZ, XYLE

BENZENE

TOLUENE

ETHYL BENZENE

XYLENES

TCCLP F SERIES ENRON LIST

METHYLENE CHLORIDE

1,1,1-TRICHLOROETHANE

TRICHLORO-TRIFLUOROETHANE

ORTHO-DICHLOROBENZENE

TRICHLOROFLUOROMETHANE

XYLENE

ACETONE

ETHYL ACETATE

ETHYL BENZENE

ETHYL ETHER

METHYL ISOBUTYL KETONE

n-BUTYL ALCOHOL

CYCLOHEXANONE

METHANOL

CRESYLIC ACID

TOLUENE

CARBON DISULFIDE

Result
Limit

0.1

0.1

0.1

0.1

0.1

.020

.020

.020

.020

.020

.020

10

10

.020

.020

.020

10

.020

10

.001

.020

.020

Units MG/KG
Analyzed 10/10/91
By DD

MG/KG 10/10/91 DD

MG/KG 10/10/91 DD

MG/KG 10/10/91 DD

MG/KG 10/10/91 DD

MG/L 10/17/91 SS

MG/L 10/17/91 SS

MG/L 10/17/91 SS

MG/L 10/17/91 SS

MG/L 10/17/91 SS

MG/L 10/17/91 SS

MG/L 10/17/91 SS

MG/L 10/17/91 SS

MG/L 10/17/91 SS

MG/L 10/17/91 SS

MG/L 10/17/91 SS

MG/L 10/17/91 SS

MG/L 10/17/91 SS

MG/L 10/17/91 SS

MG/L 10/17/91 SS

MG/L 10/17/91 SS

MG/L 10/17/91 SS



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Test Description	Result	Limit	Units	Analyzed	By
ISOBUTANOL	<10	10	MG/L	10/17/91	SS
2-ETHOXYETHANOL	<10	10	MG/L	10/17/91	SS
2-NITROPROPANE	<.020	.020	MG/L	10/17/91	SS
Surrogates					
4-BROMOFLUOROBENZENE	99	Min: 86	Max: 115		
1,2-DICHLOROETHANE-d4	75 Q	Min: 76	Max: 114		
TOLUENE-d8	100	Min: 88	Max: 110		
TCLP METALS					
ARSENIC	0.006	0.005	MG/L		JB
BARIUM	<0.50	0.50	MG/L		JB
CADMIUM	<0.003	0.003	MG/L		JB
CHROMIUM	<0.020	0.020	MG/L		JB
LEAD	<0.100	0.100	MG/L		JB
MERCURY	<0.0002	0.0002	MG/L		JB
SELENIUM	<0.005	0.005	MG/L		JB
SILVER	<0.010	0.010	MG/L		JB
TCLP ORGANICS ENRON LIST					
BENZENE	<.020	.020	MG/L	10/15/91	SS
CARBON TETRACHLORIDE	<.020	.020	MG/L	10/15/91	SS
CHLOROBENZENE	<.020	.020	MG/L	10/15/91	SS
CHLOROFORM	<.020	.020	MG/L	10/15/91	SS
1,2-DICHLOROETHANE	<.020	.020	MG/L	10/15/91	SS
1,1-DICHLOROETHYLENE	<.020	.020	MG/L	10/15/91	SS
METHYL ETHYL KETONE	<.020	.020	MG/L	10/15/91	SS
TETRACHLOROETHYLENE	<.020	.020	MG/L	10/15/91	SS
TRICHLOROETHYLENE	<.020	.020	MG/L	10/15/91	SS
VINYL CHLORIDE	<.020	.020	MG/L	10/15/91	SS
O-CRESOL	<.001	.001	MG/L	10/15/91	SS

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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
M-CRESOL	<.001	.001	MG/L	10/15/91	SS
P-CRESOL	<.001	.001	MG/L	10/15/91	SS
1,4-DICHLOROBENZENE	<.001	.001	MG/L	10/15/91	SS
2,4-DINITROTOLUENE	<.001	.001	MG/L	10/15/91	SS
HEXACHLOROBENZENE	<.001	.001	MG/L	10/15/91	SS
HEXACHLORO-1,3-BUTADIENE	<.001	.001	MG/L	10/15/91	SS
HEXACHLOROETHANE	<.001	.001	MG/L	10/15/91	SS
NITROBENZENE	<.001	.001	MG/L	10/15/91	SS
PENTACHLOROPHENOL	<.001	.001	MG/L	10/15/91	SS
PYRIDINE	<.001	.001	MG/L	10/15/91	SS
2,4,5-TRICHLOROPHENOL	<.001	.001	MG/L	10/15/91	SS
2,4,6-TRICHLOROPHENOL	<.001	.001	MG/L	10/15/91	SS
Surrogates					
NITROBENZENE-d5	66	Min: 35	Max: 114		
2-FLUOROBIPHENYL	76	Min: 43	Max: 116		
TERPHENYL-d14	70	Min: 33	Max: 141		
PHENOL-d5	26	Min: 10	Max: 94		
2-FLUOROPHENOL	45	Min: 21	Max: 100		
TOTAL REC PET HYDROCARBONS	<5.0	5.0	MG/KG	10/15/91	PV

Sample: 05A BH-12 50.1 - 50.5

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
BENZENE, TOLUENE, EBENZ, XYLE		0.1			
BENZENE	<0.1	0.1	MG/KG	10/10/91	DD
TOLUENE	<0.1	0.1	MG/KG	10/10/91	DD



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
ETHYL BENZENE	<0.1	0.1	MG/KG	10/10/91	DD
XYLENES	0.19	0.1	MG/KG	10/10/91	DD
TCCLP F SERIES ENRON LIST					
METHYLENE CHLORIDE	<.020	.020	MG/L	10/17/91	SS
1,1,1-TRICHLOROETHANE	<.020	.020	MG/L	10/17/91	SS
TRICHLORO-TRIFLUOROETHANE	<.020	.020	MG/L	10/17/91	SS
ORTHO-DICHLOROBENZENE	<.020	.020	MG/L	10/17/91	SS
TRICHLOROFLUOROMETHANE	<.020	.020	MG/L	10/17/91	SS
XYLENE	<.020	.020	MG/L	10/17/91	SS
ACETONE	<10	10	MG/L	10/17/91	SS
ETHYL ACETATE	<10	10	MG/L	10/17/91	SS
ETHYL BENZENE	<.020	.020	MG/L	10/17/91	SS
ETHYL ETHER	<.020	.020	MG/L	10/17/91	SS
METHYL ISOBUTYL KETONE	<.020	.020	MG/L	10/17/91	SS
n-BUTYL ALCOHOL	<10	10	MG/L	10/17/91	SS
CYCLOHEXANONE	<.020	.020	MG/L	10/17/91	SS
METHANOL	<10	10	MG/L	10/17/91	SS
CRESYLIC ACID	<.001	.001	MG/L	10/17/91	SS
TOLUENE	<.020	.020	MG/L	10/17/91	SS
CARBON DISULFIDE	<.020	.020	MG/L	10/17/91	SS
ISOBUTANOL	<10	10	MG/L	10/17/91	SS
2-ETHOXYETHANOL	<10	10	MG/L	10/17/91	SS
2-NITROPROPANE	<.020	.020	MG/L	10/17/91	SS
Surrogates					
4-BROMOFLUOROBENZENE	88	Min: 86	Max: 115		
1,2-DICHLOROETHANE-d4	95	Min: 76	Max: 114		
TOLUENE-d8	93	Min: 88	Max: 110		
TCCLP METALS					



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Test Description	Result	Limit	Units	Analyzed	By
ARSENIC	<0.005	0.005	MG/L		JB
BARIUM	<0.50	0.50	MG/L		JB
CADMIUM	<0.003	0.003	MG/L		JB
CHROMIUM	<0.020	0.020	MG/L		JB
LEAD	<0.100	0.100	MG/L		JB
MERCURY	<0.0002	0.0002	MG/L		JB
SELENIUM	<0.005	0.005	MG/L		JB
SILVER	<0.010	0.010	MG/L		JB
TCCLP ORGANICS ENRON LIST					
BENZENE	<.020	.020	MG/L	10/15/91	SS
CARBON TETRACHLORIDE	<.020	.020	MG/L	10/15/91	SS
CHLOROBENZENE	<.020	.020	MG/L	10/15/91	SS
CHLOROFORM	<.020	.020	MG/L	10/15/91	SS
1,2-DICHLOROETHANE	<.020	.020	MG/L	10/15/91	SS
1,1-DICHLOROETHYLENE	<.020	.020	MG/L	10/15/91	SS
METHYL ETHYL KETONE	<.020	.020	MG/L	10/15/91	SS
TETRACHLOROETHYLENE	<.020	.020	MG/L	10/15/91	SS
TRICHLOROETHYLENE	<.020	.020	MG/L	10/15/91	SS
VINYL CHLORIDE	<.020	.020	MG/L	10/15/91	SS
O-CRESOL	<.001	.001	MG/L	10/15/91	SS
M-CRESOL	<.001	.001	MG/L	10/15/91	SS
P-CRESOL	<.001	.001	MG/L	10/15/91	SS
1,4-DICHLOROBENZENE	<.001	.001	MG/L	10/15/91	SS
2,4-DINITROTOLUENE	<.001	.001	MG/L	10/15/91	SS
HEXACHLOROBENZENE	<.001	.001	MG/L	10/15/91	SS
HEXACHLORO-1,3-BUTADIENE	<.001	.001	MG/L	10/15/91	SS
HEXACHLOROETHANE	<.001	.001	MG/L	10/15/91	SS
NITROBENZENE	<.001	.001	MG/L	10/15/91	SS



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
PENTACHLOROPHENOL	<.001	.001	MG/L	10/15/91	SS
PYRIDINE	<.001	.001	MG/L	10/15/91	SS
2,4,5-TRICHLOROPHENOL	<.001	.001	MG/L	10/15/91	SS
2,4,6-TRICHLOROPHENOL	<.001	.001	MG/L	10/15/91	SS
Surrogates					
NITROBENZENE-d5	70	Min: 35	Max: 114		
2-FLUOROBIPHENYL	77	Min: 43	Max: 116		
TERPHENYL-d14	N/A	Min:	Max:		
PHENOL-d5	12	Min: 10	Max: 94		
2-FLUOROPHENOL	21	Min: 21	Max: 100		
TOTAL REC PET HYDROCARBONS	<5.0	5.0	MG/KG	10/15/91	PV

Sample: 06A BH-21 0.6 - 1.6

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
BENZENE, TOLUENE, EBENZ, XYLE		0.1			
BENZENE	<0.1	0.1	MG/KG	10/10/91	DD
TOLUENE	<0.1	0.1	MG/KG	10/10/91	DD
ETHYL BENZENE	0.12	0.1	MG/KG	10/10/91	DD
XYLENES	0.31	0.1	MG/KG	10/10/91	DD
TCLP F SERIES ENRON LIST					
METHYLENE CHLORIDE	<.020	.020	MG/L	10/17/91	SS
1,1,1-TRICHLOROETHANE	<.020	.020	MG/L	10/17/91	SS
TRICHLORO-TRIFLUOROETHANE	<.020	.020	MG/L	10/17/91	SS
ORTHO-DICHLOROBENZENE	<.020	.020	MG/L	10/17/91	SS
TRICHLOROFLUOROMETHANE	<.020	.020	MG/L	10/17/91	SS



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
XYLENE	<.020	.020	MG/L	10/17/91	SS
ACETONE	<10	10	MG/L	10/17/91	SS
ETHYL ACETATE	<10	10	MG/L	10/17/91	SS
ETHYL BENZENE	<.020	.020	MG/L	10/17/91	SS
ETHYL ETHER	<.020	.020	MG/L	10/17/91	SS
METHYL ISOBUTYL KETONE	<.020	.020	MG/L	10/17/91	SS
n-BUTYL ALCOHOL	<10	10	MG/L	10/17/91	SS
CYCLOHEXANONE	<.020	.020	MG/L	10/17/91	SS
METHANOL	<10	10	MG/L	10/17/91	SS
CRESYLIC ACID	<.001	.001	MG/L	10/17/91	SS
TOLUENE	<.020	.020	MG/L	10/17/91	SS
CARBON DISULFIDE	<.020	.020	MG/L	10/17/91	SS
ISOBUTANOL	<10	10	MG/L	10/17/91	SS
2-ETHOXYETHANOL	<10	10	MG/L	10/17/91	SS
2-NITROPROPANE	<.020	.020	MG/L	10/17/91	SS
Surrogates					
4-BROMOFLUOROBENZENE	91	Min: 86	Max: 115		
1,2-DICHLOROETHANE-d4	76	Min: 76	Max: 114		
TOLUENE-d8	102	Min: 88	Max: 110		
TCLP METALS					
ARSENIC	0.008	0.005	MG/L		JB
BARIUM	2.39	0.50	MG/L		JB
CADMIUM	<0.003	0.003	MG/L		JB
CHROMIUM	0.025	0.020	MG/L		JB
LEAD	<0.100	0.100	MG/L		JB
MERCURY	<0.0002	0.0002	MG/L		JB
SELENIUM	<0.005	0.005	MG/L		JB
SILVER	0.023	0.010	MG/L		JB



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
TCLP ORGANICS ENRON LIST					
BENZENE	<.020	.020	MG/L	10/15/91	SS
CARBON TETRACHLORIDE	<.020	.020	MG/L	10/15/91	SS
CHLOROBENZENE	<.020	.020	MG/L	10/15/91	SS
CHLOROFORM	<.020	.020	MG/L	10/15/91	SS
1,2-DICHLOROETHANE	<.020	.020	MG/L	10/15/91	SS
1,1-DICHLOROETHYLENE	<.020	.020	MG/L	10/15/91	SS
METHYL ETHYL KETONE	<.020	.020	MG/L	10/15/91	SS
TETRACHLOROETHYLENE	<.020	.020	MG/L	10/15/91	SS
TRICHLOROETHYLENE	<.020	.020	MG/L	10/15/91	SS
VINYL CHLORIDE	<.020	.020	MG/L	10/15/91	SS
O-CRESOL	<.001	.001	MG/L	10/15/91	SS
M-CRESOL	<.001	.001	MG/L	10/15/91	SS
P-CRESOL	<.001	.001	MG/L	10/15/91	SS
1,4-DICHLOROBENZENE	<.001	.001	MG/L	10/15/91	SS
2,4-DINITROTOLUENE	<.001	.001	MG/L	10/15/91	SS
HEXACHLOROBENZENE	<.001	.001	MG/L	10/15/91	SS
HEXACHLORO-1,3-BUTADIENE	<.001	.001	MG/L	10/15/91	SS
HEXACHLOROETHANE	<.001	.001	MG/L	10/15/91	SS
NITROBENZENE	<.001	.001	MG/L	10/15/91	SS
PENTACHLOROPHENOL	<.001	.001	MG/L	10/15/91	SS
PYRIDINE	<.001	.001	MG/L	10/15/91	SS
2,4,5-TRICHLOROPHENOL	<.001	.001	MG/L	10/15/91	SS
2,4,6-TRICHLOROPHENOL	<.001	.001	MG/L	10/15/91	SS
Surrogates					
NITROBENZENE-d5	42 Min: 35		Max: 114		
2-FLUOROBIPHENYL	49 Min: 43		Max: 116		
TERPHENYL-d14	N/A Min:		Max:		
PHENOL-d5	4 Q Min: 10		Max: 94		
2-FLUOROPHENOL	5 Q Min: 21		Max: 100		



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Test Description	Result	Limit	Units	Analyzed	By
ISOBUTANOL	<10	10	MG/L	10/17/91	SS
2-ETHOXYETHANOL	<10	10	MG/L	10/17/91	SS
2-NITROPROPANE	<.020	.020	MG/L	10/17/91	SS
Surrogates					
4-BROMOFLUOROBENZENE	96	Min: 86	Max: 115		
1,2-DICHLOROETHANE-d4	89	Min: 76	Max: 114		
TOLUENE-d8	108	Min: 88	Max: 110		
TCLP METALS					
ARSENIC	<0.005	0.005	MG/L		JB
BARIIUM	5.07	0.50	MG/L		JB
CADMIUM	<0.003	0.003	MG/L		JB
CHROMIUM	<0.020	0.020	MG/L		JB
LEAD	<0.100	0.100	MG/L		JB
MERCURY	<0.0002	0.0002	MG/L		JB
SELENIUM	<0.005	0.005	MG/L		JB
SILVER	0.012	0.010	MG/L		JB
TCLP ORGANICS ENRON LIST					
BENZENE	<.020	.020	MG/L	10/16/91	SS
CARBON TETRACHLORIDE	<.020	.020	MG/L	10/16/91	SS
CHLOROBENZENE	<.020	.020	MG/L	10/16/91	SS
CHLOROFORM	<.020	.020	MG/L	10/16/91	SS
1,2-DICHLOROETHANE	<.020	.020	MG/L	10/16/91	SS
1,1-DICHLOROETHYLENE	<.020	.020	MG/L	10/16/91	SS
METHYL ETHYL KETONE	<.020	.020	MG/L	10/16/91	SS
TETRACHLOROETHYLENE	<.020	.020	MG/L	10/16/91	SS
TRICHLOROETHYLENE	<.020	.020	MG/L	10/16/91	SS
VINYL CHLORIDE	<.020	.020	MG/L	10/16/91	SS
O-CRESOL	<.001	.001	MG/L	10/16/91	SS



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
M-CRESOL	<.001	.001	MG/L	10/16/91	SS
P-CRESOL	<.001	.001	MG/L	10/16/91	SS
1,4-DICHLOROBENZENE	<.001	.001	MG/L	10/16/91	SS
2,4-DINITROTOLUENE	<.001	.001	MG/L	10/16/91	SS
HEXACHLOROBENZENE	<.001	.001	MG/L	10/16/91	SS
HEXACHLORO-1,3-BUTADIENE	<.001	.001	MG/L	10/16/91	SS
HEXACHLOROETHANE	<.001	.001	MG/L	10/16/91	SS
NITROBENZENE	<.001	.001	MG/L	10/16/91	SS
PENTACHLOROPHENOL	<.001	.001	MG/L	10/16/91	SS
PYRIDINE	<.001	.001	MG/L	10/16/91	SS
2,4,5-TRICHLOROPHENOL	<.001	.001	MG/L	10/16/91	SS
2,4,6-TRICHLOROPHENOL	<.001	.001	MG/L	10/16/91	SS
Surrogates					
NITROBENZENE-d5	62	Min: 35	Max: 114		
2-FLUOROBIPHENYL	69	Min: 43	Max: 116		
TERPHENYL-d14	N/A	Min:	Max:		
PHENOL-d5	15	Min: 10	Max: 94		
2-FLUOROPHENOL	25	Min: 21	Max: 100		
TOTAL REC PET HYDROCARBONS	<5.0	5.0	MG/KG	10/15/91	PV

Sample: 08A BH-21 30.7 - 31.2

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
BENZENE, TOLUENE, EBENZ, XYLE					
BENZENE	<0.1	0.1	MG/KG	10/11/91	DD
TOLUENE	<0.1	0.1	MG/KG	10/11/91	DD

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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
ETHYL BENZENE	<0.1	0.1	MG/KG	10/11/91	DD
XYLENES	0.48	0.1	MG/KG	10/11/91	DD
TCLP F SERIES ENRON LIST					
METHYLENE CHLORIDE	<.020	.020	MG/L	10/17/91	SS
1,1,1-TRICHLOROETHANE	<.020	.020	MG/L	10/17/91	SS
TRICHLORO-TRIFLUOROETHANE	<.020	.020	MG/L	10/17/91	SS
ORTHO-DICHLOROBENZENE	<.020	.020	MG/L	10/17/91	SS
TRICHLOROFLUOROMETHANE	<.020	.020	MG/L	10/17/91	SS
XYLENE	<.020	.020	MG/L	10/17/91	SS
ACETONE	<10	10	MG/L	10/17/91	SS
ETHYL ACETATE	<10	10	MG/L	10/17/91	SS
ETHYL BENZENE	<.020	.020	MG/L	10/17/91	SS
ETHYL ETHER	<.020	.020	MG/L	10/17/91	SS
METHYL ISOBUTYL KETONE	<.020	.020	MG/L	10/17/91	SS
n-BUTYL ALCOHOL	<10	10	MG/L	10/17/91	SS
CYCLOHEXANONE	<.020	.020	MG/L	10/17/91	SS
METHANOL	<10	10	MG/L	10/17/91	SS
CRESYLIC ACID	<.001	.001	MG/L	10/17/91	SS
TOLUENE	<.020	.020	MG/L	10/17/91	SS
CARBON DISULFIDE	<.020	.020	MG/L	10/17/91	SS
ISOBUTANOL	<10	10	MG/L	10/17/91	SS
2-ETHOXYETHANOL	<10	10	MG/L	10/17/91	SS
2-NITROPROPANE	<.020	.020	MG/L	10/17/91	SS
Surrogates					
4-BROMOFLUOROBENZENE	98	Min: 86	Max: 115		
1,2-DICHLOROETHANE-d4	90	Min: 76	Max: 114		
TOLUENE-d8	108	Min: 88	Max: 110		
TCLP METALS					



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
ARSENIC	0.032	0.005	MG/L		JB
BARIUM	<0.50	0.50	MG/L		JB
CADMIUM	<0.003	0.003	MG/L		JB
CHROMIUM	0.026	0.020	MG/L		JB
LEAD	<0.100	0.100	MG/L		JB
MERCURY	<0.0002	0.0002	MG/L		JB
SELENIUM	<0.005	0.005	MG/L		JB
SILVER	0.028	0.010	MG/L		JB
TCCLP ORGANICS ENRON LIST					
BENZENE	<.020	.020	MG/L	10/16/91	SS
CARBON TETRACHLORIDE	<.020	.020	MG/L	10/16/91	SS
CHLOROBENZENE	<.020	.020	MG/L	10/16/91	SS
CHLOROFORM	<.020	.020	MG/L	10/16/91	SS
1,2-DICHLOROETHANE	<.020	.020	MG/L	10/16/91	SS
1,1-DICHLOROETHYLENE	<.020	.020	MG/L	10/16/91	SS
METHYL ETHYL KETONE	<.020	.020	MG/L	10/16/91	SS
TETRACHLOROETHYLENE	<.020	.020	MG/L	10/16/91	SS
TRICHLOROETHYLENE	<.020	.020	MG/L	10/16/91	SS
VINYL CHLORIDE	<.020	.020	MG/L	10/16/91	SS
O-CRESOL	<.001	.001	MG/L	10/16/91	SS
M-CRESOL	<.001	.001	MG/L	10/16/91	SS
P-CRESOL	<.001	.001	MG/L	10/16/91	SS
1,4-DICHLOROBENZENE	<.001	.001	MG/L	10/16/91	SS
2,4-DINITROTOLUENE	<.001	.001	MG/L	10/16/91	SS
HEXACHLOROBENZENE	<.001	.001	MG/L	10/16/91	SS
HEXACHLORO-1,3-BUTADIENE	<.001	.001	MG/L	10/16/91	SS
HEXACHLOROETHANE	<.001	.001	MG/L	10/16/91	SS
NITROBENZENE	<.001	.001	MG/L	10/16/91	SS

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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
PENTACHLOROPHENOL	<.001	.001	MG/L	10/16/91	SS
PYRIDINE	<.001	.001	MG/L	10/16/91	SS
2,4,5-TRICHLOROPHENOL	<.001	.001	MG/L	10/16/91	SS
2,4,6-TRICHLOROPHENOL	<.001	.001	MG/L	10/16/91	SS
Surrogates					
NITROBENZENE-d5	47	Min: 35	Max: 114		
2-FLUOROBIPHENYL	58	Min: 43	Max: 116		
TERPHENYL-d14	74	Min: 33	Max: 141		
PHENOL-d5	17	Min: 10	Max: 94		
2-FLUOROPHENOL	26	Min: 21	Max: 100		
TOTAL REC PET HYDROCARBONS	<5.0	5.0	MG/KG	10/15/91	PV

Sample: 09A BH-21 40.0 - 40.2

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
BENZENE, TOLUENE, EBENZ, XYLE		0.1			
BENZENE	<0.1	0.1	MG/KG	10/11/91	DD
TOLUENE	<0.1	0.1	MG/KG	10/11/91	DD
ETHYL BENZENE	<0.1	0.1	MG/KG	10/11/91	DD
XYLENES	<0.1	0.1	MG/KG	10/11/91	DD
TCLP F SERIES ENRON LIST					
METHYLENE CHLORIDE	<.020	.020	MG/L	10/17/91	SS
1,1,1-TRICHLOROETHANE	<.020	.020	MG/L	10/17/91	SS
TRICHLORO-TRIFLUOROETHANE	<.020	.020	MG/L	10/17/91	SS
ORTHO-DICHLOROBENZENE	<.020	.020	MG/L	10/17/91	SS
TRICHLOROFLUOROMETHANE	<.020	.020	MG/L	10/17/91	SS



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Test Description	Result	Limit	Units	Analyzed	By
XYLENE	<.020	.020	MG/L	10/17/91	SS
ACETONE	<10	10	MG/L	10/17/91	SS
ETHYL ACETATE	<10	10	MG/L	10/17/91	SS
ETHYL BENZENE	<.020	.020	MG/L	10/17/91	SS
ETHYL ETHER	<.020	.020	MG/L	10/17/91	SS
METHYL ISOBUTYL KETONE	<.020	.020	MG/L	10/17/91	SS
n-BUTYL ALCOHOL	<10	10	MG/L	10/17/91	SS
CYCLOHEXANONE	<.020	.020	MG/L	10/17/91	SS
METHANOL	<10	10	MG/L	10/17/91	SS
CRESYLIC ACID	<.001	.001	MG/L	10/17/91	SS
TOLUENE	<.020	.020	MG/L	10/17/91	SS
CARBON DISULFIDE	<.020	.020	MG/L	10/17/91	SS
ISOBUTANOL	<10	10	MG/L	10/17/91	SS
2-ETHOXYETHANOL	<10	10	MG/L	10/17/91	SS
2-NITROPROPANE	<.020	.020	MG/L	10/17/91	SS
Surrogates					
4-BROMOFLUOROBENZENE	97	Min: 86	Max: 115		
1,2-DICHLOROETHANE-d4	74 Q	Min: 76	Max: 114		
TOLUENE-d8	106	Min: 88	Max: 110		
TCLP METALS					
ARSENIC	<0.005	0.005	MG/L		JB
BARIUM	<0.50	0.50	MG/L		JB
CADMIUM	<0.003	0.003	MG/L		JB
CHROMIUM	<0.020	0.020	MG/L		JB
LEAD	<0.100	0.100	MG/L		JB
MERCURY	<0.0002	0.0002	MG/L		JB
SELENIUM	<0.005	0.005	MG/L		JB
SILVER	<0.010	0.010	MG/L		JB



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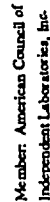
Test Description	Result	Limit	Units	Analyzed	By
TCLP ORGANICS ENRON LIST					
BENZENE	<.020	.020	MG/L	10/15/91	SS
CARBON TETRACHLORIDE	<.020	.020	MG/L	10/15/91	SS
CHLOROBENZENE	<.020	.020	MG/L	10/15/91	SS
CHLOROFORM	<.020	.020	MG/L	10/15/91	SS
1,2-DICHLOROETHANE	<.020	.020	MG/L	10/15/91	SS
1,1-DICHLOROETHYLENE	<.020	.020	MG/L	10/15/91	SS
METHYL ETHYL KETONE	<.020	.020	MG/L	10/15/91	SS
TETRACHLOROETHYLENE	<.020	.020	MG/L	10/15/91	SS
TRICHLOROETHYLENE	<.020	.020	MG/L	10/15/91	SS
VINYL CHLORIDE	<.020	.020	MG/L	10/15/91	SS
O-CRESOL	<.001	.001	MG/L	10/15/91	SS
M-CRESOL	<.001	.001	MG/L	10/15/91	SS
P-CRESOL	<.001	.001	MG/L	10/15/91	SS
1,4-DICHLOROBENZENE	<.001	.001	MG/L	10/15/91	SS
2,4-DINITROTOLUENE	<.001	.001	MG/L	10/15/91	SS
HEXACHLOROBENZENE	<.001	.001	MG/L	10/15/91	SS
HEXACHLORO-1,3-BUTADIENE	<.001	.001	MG/L	10/15/91	SS
HEXACHLOROETHANE	<.001	.001	MG/L	10/15/91	SS
NITROBENZENE	<.001	.001	MG/L	10/15/91	SS
PENTACHLOROPHENOL	<.001	.001	MG/L	10/15/91	SS
PYRIDINE	<.001	.001	MG/L	10/15/91	SS
2,4,5-TRICHLOROPHENOL	<.001	.001	MG/L	10/15/91	SS
2,4,6-TRICHLOROPHENOL	<.001	.001	MG/L	10/15/91	SS
Surrogates					
NITROBENZENE-d5	75	Min: 35	Max: 114		
2-FLUOROBIPHENYL	79	Min: 43	Max: 116		
TERPHENYL-d14	81	Min: 33	Max: 141		
PHENOL-d5	17	Min: 10	Max: 94		
2-FLUOROPHENOL	32	Min: 21	Max: 100		



<u>Result</u>	<u>Limit</u>
<5.0	5.0

Collected:

<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
	0.1			
<0.1	0.1	MG/KG	10/11/91	DD
<0.1	0.1	MG/KG	10/11/91	DD
<0.1	0.1	MG/KG	10/11/91	DD
<0.1	0.1	MG/KG	10/11/91	DD
<.020	.020	MG/L	10/17/91	SS
<.020	.020	MG/L	10/17/91	SS
<.020	.020	MG/L	10/17/91	SS
<.020	.020	MG/L	10/17/91	SS
<.020	.020	MG/L	10/17/91	SS
<.020	.020	MG/L	10/17/91	SS
<10	10	MG/L	10/17/91	SS
<10	10	MG/L	10/17/91	SS
<.020	.020	MG/L	10/17/91	SS
<.020	.020	MG/L	10/17/91	SS
<.020	.020	MG/L	10/17/91	SS
<10	10	MG/L	10/17/91	SS
<.020	.020	MG/L	10/17/91	SS
<10	10	MG/L	10/17/91	SS
<.001	.001	MG/L	10/17/91	SS
<.020	.020	MG/L	10/17/91	SS
<.020	.020	MG/L	10/17/91	SS



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
ISOBUTANOL	<10	10	MG/L	10/17/91	SS
2-ETHOXYETHANOL	<10	10	MG/L	10/17/91	SS
2-NITROPROPANE	<.020	.020	MG/L	10/17/91	SS
Surrogates					
4-BROMOFLUOROBENZENE	94	Min: 86	Max: 115		
1,2-DICHLOROETHANE-d4	82	Min: 76	Max: 114		
TOLUENE-d8	102	Min: 88	Max: 110		
TCLP METALS					
ARSENIC	0.013	0.005	MG/L		JB
BARIUM	<0.50	0.50	MG/L		JB
CADMIUM	<0.003	0.003	MG/L		JB
CHROMIUM	<0.020	0.020	MG/L		JB
LEAD	<0.100	0.100	MG/L		JB
MERCURY	<0.0002	0.0002	MG/L		JB
SELENIUM	<0.005	0.005	MG/L		JB
SILVER	0.028	0.010	MG/L		JB
TCLP ORGANICS ENRON LIST					
BENZENE	<.020	.020	MG/L	10/17/91	SS
CARBON TETRACHLORIDE	<.020	.020	MG/L	10/17/91	SS
CHLOROBENZENE	<.020	.020	MG/L	10/17/91	SS
CHLOROFORM	<.020	.020	MG/L	10/17/91	SS
1,2-DICHLOROETHANE	<.020	.020	MG/L	10/17/91	SS
1,1-DICHLOROETHYLENE	<.020	.020	MG/L	10/17/91	SS
METHYL ETHYL KETONE	<.020	.020	MG/L	10/17/91	SS
TETRACHLOROETHYLENE	<.020	.020	MG/L	10/17/91	SS
TRICHLOROETHYLENE	<.020	.020	MG/L	10/17/91	SS
VINYL CHLORIDE	<.020	.020	MG/L	10/17/91	SS
O-CRESOL	<.001	.001	MG/L	10/17/91	SS

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Test Description	Result	Limit	Units	Analyzed	By
M-CRESOL	<.001	.001	MG/L	10/17/91	SS
P-CRESOL	<.001	.001	MG/L	10/17/91	SS
1,4-DICHLOROBENZENE	<.001	.001	MG/L	10/17/91	SS
2,4-DINITROTOLUENE	<.001	.001	MG/L	10/17/91	SS
HEXACHLOROBENZENE	<.001	.001	MG/L	10/17/91	SS
HEXACHLORO-1,3-BUTADIENE	<.001	.001	MG/L	10/17/91	SS
HEXACHLOROETHANE	<.001	.001	MG/L	10/17/91	SS
NITROBENZENE	<.001	.001	MG/L	10/17/91	SS
PENTACHLOROPHENOL	<.001	.001	MG/L	10/17/91	SS
PYRIDINE	<.001	.001	MG/L	10/17/91	SS
2,4,5-TRICHLOROPHENOL	<.001	.001	MG/L	10/17/91	SS
2,4,6-TRICHLOROPHENOL	<.001	.001	MG/L	10/17/91	SS
Surrogates					
NITROBENZENE-d5	74	Min: 35	Max: 114		
2-FLUOROBIPHENYL	79	Min: 43	Max: 116		
TERPHENYL-d14	N/A	Min:	Max:		
PHENOL-d5	20	Min: 10	Max: 94		
2-FLUOROPHENOL	37	Min: 21	Max: 100		
TOTAL REC PET HYDROCARBONS	<5.0	5.0	MG/KG	10/15/91	PV



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REGULAR TEST RESULTS BY TEST

TOTAL REC PET HYDROCARBONS
Method: EPA 418.1

Minimum: 5.0 Maximum: 100

Sample	Sample Description	Result	Units	Extracted	Analyzed	By
01A	BH-14 55.6 - 56.0	16	MG/KG	10/15/91	10/15/91	PV
02A	BH-12 25.9 - 26.3	<5.0	MG/KG	10/15/91	10/15/91	PV
03A	BH-12 3.4 - 3.9	100	MG/KG	10/15/91	10/15/91	PV
04A	BH-12 16.7 - 17.1	<5.0	MG/KG	10/15/91	10/15/91	PV
05A	BH-12 50.1 - 50.5	<5.0	MG/KG	10/15/91	10/15/91	PV
06A	BH-21 0.6 - 1.6	3200	MG/KG	10/15/91	10/15/91	PV
07A	BH-21 15.0 - 15.3	<5.0	MG/KG	10/15/91	10/15/91	PV
08A	BH-21 30.7 - 31.2	<5.0	MG/KG	10/15/91	10/15/91	PV
09A	BH-21 40.0 - 40.2	<5.0	MG/KG	10/15/91	10/15/91	PV
10A	BH-21 51.2 - 51.5	<5.0	MG/KG	10/15/91	10/15/91	PV



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TEST METHODOLOGIES

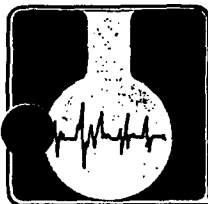
TCLP METALS: USEPA 200 SERIES METHODOLOGY

TCLP EXTRACTION: USEPA METHOD # 1311

BENZENE, TOLUENE, ETHYLBENZENE, XYLENES: USEPA METHOD # 602/8020

USEPA METHOD # 418.1





ASSAIGAI ANALYTICAL LABORATORIES

WORK ORDER
8448

☐ HAZARDOUS ☐ NON-HAZARDOUS	DATE RECEIVED <u>10/4/91</u>	ESTIMATED COST
CUSTOMER P.O. NUMBER	TIME RECEIVED	DUE DATE <u>10/18/91</u>

ACCOUNT INFORMATION

CUSTOMER'S NAME <u>Enron / TWPL</u>	CONTACT <u>Mike Kneese</u>
ADDRESS	PHONE NUMBER
CITY / STATE / ZIP	

PARTY RESPONSIBLE FOR PAYMENT IF OTHER THAN ABOVE

ACCOUNT STATUS

NAME	CONTACT	PAYMENT REC'D. <u>XX</u> OPEN ACCOUNT CASH CHECK NUMBER
ADDRESS	PHONE NUMBER	
CITY / STATE / ZIP		

SPECIAL BILLING INSTRUCTIONS

SAMPLE INFORMATION

TYPE OF SAMPLE	NO. OF SAMPLES	*TURN AROUND TIME	SAMPLE IDENTIFICATION AND / OR SAMPLE SITE
☐ WATER ☐ SOIL ☐ OIL ☐ SLUDGE ☒ OTHER	<u>10</u> NO. OF CONTAINERS <u>10</u>	☒ REGULAR (10 WKG DAYS) ☐ RUSH (3 DAYS) ☐ EMERGENCY (STAT) *(SUBJECT TO WORK LOG)	<u>HORBS 5160</u>

SAMPLE DELIVERED BY <u>Fed X</u>	SIGNATURE <u>[Signature]</u>	DATE <u>10/4/91</u>
-------------------------------------	---------------------------------	------------------------

ANALYSIS REQUEST

WORK DESCRIPTION

TRPH, BIEX, ICLP-0, -2, F, E, -2.

SPECIAL INSTRUCTIONS

BILLING: ☐ PICKUP ☐ MAIL

LOGGED IN BY
[Signature]

TRANSWESTERN PIPELINE/ENRON
CLIENT LOG-IN PROBLEMS/INCONSISTENCIES

DATE RECEIVED: 10/4/91

WO #: 8448

DISTRICT: _____

CONTACT: _____

PROBLEMS/INCONSISTENCIES ON CHAIN OF CUSTODY (COC):

NO CHAIN OF CUSTODY INCLUDED WITH SAMPLES..... ☐

DISTRICT LEFT BLANK..... ☐

DATE SAMPLED LEFT BLANK..... ☒

NO ANALYTES REQUESTED..... ☐

ILLEGIBLE HANDWRITING..... ☐

SAMPLE SITE LEFT BLANK..... ☒

TURN AROUND TIME NOT INDICATED..... ☐

SAMPLE ID ON CONTAINER & COC INCONSISTENT..... ☐

CHAIN OF CUSTODY NOT RELINQUISHED..... ☐

SAMPLES RECEIVED DAMAGED..... ☐

SAMPLES RECEIVED UNSEALED..... ☐

COMMENTS: _____

SAMPLES LOGGED IN BY: 975

TRANSWESTERN PIPELINE COMPANY

CHAIN OF CUSTODY

District: Hobbs 5160

Date: 10-3-91

Sample Location
Valve or Receiver No.

Vol. Collect.
During Flush

Sampler

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

SAMPLE ID NUMBER	SOLVENT USED	SAMPLE ICED	ANALYSES REQUESTED
BH-14 55.6-56.0	—	yes	TRPH/BTEX/TCLP-O-M-E
BH-12 25.9-26.3	—	yes	TRPH/BTEX/TCLP-O-M-F
BH-12 3.4-3.9	—	yes	TRPH/BTEX/TCLP-O-M-F
BH-12 16.7-17.1	—	yes	TRPH/BTEX/TCLP-O-M-F
BH-12 50.1-50.5	—	yes	TRPH/BTEX/TCLP-O-M-F
BH-21 0.6-1.6	—	yes	TRPH/BTEX/TCLP-O-M-F
BH-21 15.0-15.3	—	yes	TRPH/BTEX/TCLP-O-M-F
BH-21 30.7-31.2	—	yes	TRPH/BTEX/TCLP-O-M-F
BH-21 40.0-40.2	—	yes	TRPH/BTEX/TCLP-O-M-F
BH-21 51.2-51.5	—	yes	TRPH/BTEX/TCLP-O-M-F

Relinquished By Michael M. Knease

Date 10-3-91

Relinquished To Federal Express

Date 10-3-91

Relinquished By _____

Date _____

Relinquished To _____

Date _____

Relinquished By _____

Date _____

Relinquished To _____

Date _____

Relinquished By _____

Date _____

Relinquished To _____

Date _____

Laboratory: _____

Received: _____

Date _____

Standard Turnaround

Assaigai Analytical Labs
7300 Jefferson NE
Albuquerque, NM 87109

Attn: SYED RIZVI
Phone: (505)345-8964

ENRON/TRANSWESTERN PIPELINE
HOBBS PLANT
2626 WEST MARLAND
HOBBS, NM 88240
Attn: MIKE KNEESE
Invoice Number: 912320

Order #: 91-10-050
Date: 10/18/91 14:42
Work ID: DISTRICT HOBBS 5160
Date Received: 10/04/91
Date Completed: 10/18/91

8450

SAMPLE IDENTIFICATION

Sample Number	Sample Description	Sample Number	Sample Description
01	EUNICE MW-1		

QUESTIONS ABOUT THIS REPORT SHOULD BE ADDRESSED TO:
LABORATORY OPERATIONS MANAGER/ASSAIGAI ANALYTICAL
7300 JEFFERSON N.E., ALBUQUERQUE, N.M. 87109

Syed Rizvi
Certified By
SYED N. RIZVI



Order # 91-10-050
10/18/91 14:42

Assaigai Analytical Labs

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TEST RESULTS BY SAMPLE

Sample: 01A EUNICE MW-1

Collected:

Test Description	Result	Limit	Units	Analyzed	By
PURGEABLE AROMATICS		1.0			
BENZENE	3.2	1.0	UG/L	10/10/91	DD
CHLOROBENZENE	<1.0	1.0	UG/L	10/10/91	DD
1,4-DICHLOROBENZENE	2.9	1.0	UG/L	10/10/91	DD
1,3-DICHLOROBENZENE	<1.0	1.0	UG/L	10/10/91	DD
1,2-DICHLOROBENZENE	2.3	1.0	UG/L	10/10/91	DD
ETHYL BENZENE	1.1	1.0	UG/L	10/10/91	DD
TOLUENE	1.8	1.0	UG/L	10/10/91	DD
PURGEABLE HALOCARBONS		1.0			
BROMODICHLOROMETHANE	<1.0	1.0	UG/L	10/10/91	DD
BROMOFORM	<1.0	1.0	UG/L	10/10/91	DD
BROMOMETHANE	<1.0	1.0	UG/L	10/10/91	DD
CARBON TETRACHLORIDE	<1.0	1.0	UG/L	10/10/91	DD
CHLOROBENZENE	<1.0	1.0	UG/L	10/10/91	DD
CHLOROETHANE	<1.0	1.0	UG/L	10/10/91	DD
CHLOROFORM	<1.0	1.0	UG/L	10/10/91	DD
2-CHLOROETHYL VINYL ETHER	<1.0	1.0	UG/L	10/10/91	DD
CHLOROMETHANE	<1.0	1.0	UG/L	10/10/91	DD
DIBROMOCHLOROMETHANE	1.6	1.0	UG/L	10/10/91	DD
1,2-DICHLOROBENZENE	2.3	1.0	UG/L	10/10/91	DD
1,3-DICHLOROBENZENE	<1.0	1.0	UG/L	10/10/91	DD
1,4-DICHLOROBENZENE	2.9	1.0	UG/L	10/10/91	DD
DICHLORODIFLUOROMETHANE	<1.0	1.0	UG/L	10/10/91	DD



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
1,1-DICHLOROETHANE	<1.0	1.0	UG/L	10/10/91	DD
1,2-DICHLOROETHANE	<1.0	1.0	UG/L	10/10/91	DD
1,1-DICHLOROETHENE	<1.0	1.0	UG/L	10/10/91	DD
trans-1,2-DICHLOROETHENE	<1.0	1.0	UG/L	10/10/91	DD
1,2-DICHLOROPROPANE	1.9	1.0	UG/L	10/10/91	DD
cis-1,3-DICHLOROPROPENE	<1.0	1.0	UG/L	10/10/91	DD
1,1,2,2-TETRACHLOROETHANE	<1.0	1.0	UG/L	10/10/91	DD
trans-1,3-DICHLOROPROPENE	<1.0	1.0	UG/L	10/10/91	DD
METHYLENE CHLORIDE	<1.0	1.0	UG/L	10/10/91	DD
1,1,1-TRICHLOROETHANE	<1.0	1.0	UG/L	10/10/91	DD
1,1,2-TRICHLOROETHANE	1.3	1.0	UG/L	10/10/91	DD
TETRACHLOROETHENE	<1.0	1.0	UG/L	10/10/91	DD
TRICHLOROFLUOROMETHANE	<1.0	1.0	UG/L	10/10/91	DD
TRICHLOROETHENE	<1.0	1.0	UG/L	10/10/91	DD
VINYL CHLORIDE	<1.0	1.0	UG/L	10/10/91	DD

Sample: 01B EUNICE MW-1

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
ALUMINUM (TOTAL)	<1.0	1.0	MG/L	10/08/91	JB
BARIUM (TOTAL)	1.48	0.50	MG/L	10/08/91	JB
CALCIUM (TOTAL)	190	0.1	MG/L	10/08/91	JB
CHROMIUM (TOTAL)	<0.02	0.02	MG/L	10/08/91	JB
IRON (TOTAL)	70	0.05	MG/L	10/08/91	JB
LEAD (TOTAL)	<0.10	0.1	MG/L	10/08/91	JB
LITHIUM (TOTAL)	0.20	0.05	MG/L	10/08/91	JB



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Assaigai Analytical Labs

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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
MAGNESIUM (TOTAL)	9.90	0.005	MG/L	10/08/91	JB
MANGANESE (TOTAL)	0.63	0.02	MG/L	10/08/91	JB
POTASSIUM (TOTAL)	4.24	0.05	MG/L	10/08/91	JB
SODIUM (TOTAL)	320	0.02	MG/L	10/08/91	JB
STRONTIUM (TOTAL)	5.35	0.005	MG/L	10/08/91	JB
ZINC (TOTAL)	0.01	0.01	MG/L	10/08/91	JB



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REGULAR TEST RESULTS BY TEST

ALUMINUM (TOTAL)		Minimum:	1.0	Maximum:	20		
Method: EPA 202							
<u>Sample</u>	<u>Sample Description</u>	<u>Result</u>		<u>Units</u>	<u>Extracted</u>	<u>Analyzed</u>	<u>By</u>
01B	EUNICE MW-1	<1.0		MG/L	10/05/91	10/08/91	JB
BARIUM (TOTAL)		Minimum:	0.50	Maximum:	20		
Method: EPA 208							
<u>Sample</u>	<u>Sample Description</u>	<u>Result</u>		<u>Units</u>	<u>Extracted</u>	<u>Analyzed</u>	<u>By</u>
01B	EUNICE MW-1	1.48		MG/L	10/05/91	10/08/91	JB
CALCIUM (TOTAL)		Minimum:	0.1	Maximum:	100		
Method: EPA 215.1							
<u>Sample</u>	<u>Sample Description</u>	<u>Result</u>		<u>Units</u>	<u>Extracted</u>	<u>Analyzed</u>	<u>By</u>
01B	EUNICE MW-1	190		MG/L	10/05/91	10/08/91	JB
CHROMIUM (TOTAL)		Minimum:	0.02	Maximum:	20		
Method: EPA 218							
<u>Sample</u>	<u>Sample Description</u>	<u>Result</u>		<u>Units</u>	<u>Extracted</u>	<u>Analyzed</u>	<u>By</u>
01B	EUNICE MW-1	<0.02		MG/L	10/05/91	10/08/91	JB



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IRON (TOTAL)
Method: EPA 236

Minimum:	0.05	Maximum:	20
<u>Sample</u>	<u>Sample Description</u>	<u>Units</u>	<u>Extracted Analyzed</u>
01B	EUNICE MW-1	MG/L	10/05/91 10/08/91 JB
<u>Result</u>			
70			

LEAD (TOTAL)
Method: EPA 239

Minimum:	0.1	Maximum:	20
<u>Sample</u>	<u>Sample Description</u>	<u>Units</u>	<u>Extracted Analyzed</u>
01B	EUNICE MW-1	MG/L	10/05/91 10/08/91 JB
<u>Result</u>			
<0.10			

LITHIUM (TOTAL)
Method: EPA 200

Minimum:	0.05	Maximum:	20
<u>Sample</u>	<u>Sample Description</u>	<u>Units</u>	<u>Extracted Analyzed</u>
01B	EUNICE MW-1	MG/L	10/05/91 10/08/91 JB
<u>Result</u>			
0.20			

MAGNESIUM (TOTAL)
Method: EPA 242.1

Minimum:	0.005	Maximum:	20
<u>Sample</u>	<u>Sample Description</u>	<u>Units</u>	<u>Extracted Analyzed</u>
01B	EUNICE MW-1	MG/L	10/05/91 10/08/91 JB
<u>Result</u>			
9.90			



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MANGANESE (TOTAL)
Method: EPA 243

Minimum:	0.02	Maximum:	20
<u>Sample</u>	<u>Description</u>	<u>Units</u>	<u>Extracted</u>
01B	EUNICE MW-1	MG/L	10/05/91
			10/08/91
			JB

POTASSIUM (TOTAL)
Method: EPA 258.1

Minimum:	0.05	Maximum:	20
<u>Sample</u>	<u>Description</u>	<u>Units</u>	<u>Extracted</u>
01B	EUNICE MW-1	MG/L	10/05/91
			10/08/91
			JB

SODIUM (TOTAL)
Method: EPA 273.1

Minimum:	0.02	Maximum:	20
<u>Sample</u>	<u>Description</u>	<u>Units</u>	<u>Extracted</u>
01B	EUNICE MW-1	MG/L	10/05/91
			10/08/91
			JB

STRONTIUM (TOTAL)
Method: EPA 200

Minimum:	0.005	Maximum:	20
<u>Sample</u>	<u>Description</u>	<u>Units</u>	<u>Extracted</u>
01B	EUNICE MW-1	MG/L	10/05/91
			10/08/91
			JB



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ZINC (TOTAL)
Method: EPA 289

Minimum: 0.01 Maximum: 20

Sample Description
01B EUNICE MW-1

Result
0.01

Units Extracted Analyzed By
MG/L 10/05/91 10/08/91 JB



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TEST METHODOLOGIES

USEPA METHOD # 202

BARIUM: USEPA METHOD # 208

CALCIUM: USEPA METHOD # 215.1

CHROMIUM: USEPA METHOD # 218

IRON: USEPA METHOD # 236

POTASSIUM: USEPA METHOD # 258.1

LITHIUM: USEPA METHOD # 200

USEPA METHOD # 242.1

USEPA METHOD # 243

USEPA METHOD # 273.1

USEPA METHOD # 239

PURGEABLE HALOCARBONS = USEPA METHOD #601
ANALYZED ON GC-PURGE & TRAP

PURGEABLE AROMATICS: USEPA METHOD #602
ANALYZED ON GC-PURGE & TRAP



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TRANSWESTERN PIPELINE/ENRON
CLIENT LOG-IN PROBLEMS/INCONSISTENCIES

DATE RECEIVED: 10/4/91 WO #: 8450

DISTRICT: Hobbs 5160 CONTACT: Mila Kneese

PROBLEMS/INCONSISTENCIES ON CHAIN OF CUSTODY(COC):

NO CHAIN OF CUSTODY INCLUDED WITH SAMPLES..... ☐

DISTRICT LEFT BLANK..... ☐

DATE SAMPLED LEFT BLANK..... ☒

NO ANALYTES REQUESTED..... ☐

ILLEGIBLE HANDWRITING..... ☐

SAMPLE SITE LEFT BLANK..... ☒

TURN AROUND TIME NOT INDICATED..... ☐

SAMPLE ID ON CONTAINER & COC INCONSISTENT..... ☐

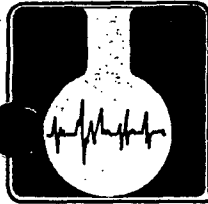
CHAIN OF CUSTODY NOT RELINQUISHED..... ☐

SAMPLES RECEIVED DAMAGED..... ☐

SAMPLES RECEIVED UNSEALED..... ☐

COMMENTS: _____

SAMPLES LOGGED IN BY: QJZ



ASSAIGAI ANALYTICAL LABORATORIES

WORK ORDER
8450

☐ HAZARDOUS ☐ NON-HAZARDOUS	DATE RECEIVED 10/4/91	ESTIMATED COST
CUSTOMER P.O. NUMBER	TIME RECEIVED 10:00	DUE DATE 10/18/91
ACCOUNT INFORMATION		
CUSTOMER'S NAME Enron / TWPL	CONTACT Mila Kneese	
ADDRESS	PHONE NUMBER	
CITY / STATE / ZIP Hobbs.		
PARTY RESPONSIBLE FOR PAYMENT IF OTHER THAN ABOVE		ACCOUNT STATUS
NAME	CONTACT	PAYMENT REC'D.
ADDRESS	PHONE NUMBER	OPEN ACCOUNT ☒
CITY / STATE / ZIP		CASH ☐
		CHECK NUMBER ☐
SPECIAL BILLING INSTRUCTIONS		
SAMPLE INFORMATION		
TYPE OF SAMPLE	NO. OF SAMPLES	*TURN AROUND TIME
☒ WATER	3	☒ REGULAR (10 WKG DAYS)
☐ SOIL		☐ RUSH (3 DAYS)
☐ OIL	NO. OF CONTAINERS	☐ EMERGENCY (STAT)
☐ SLUDGE	4	
☐ OTHER		
*(SUBJECT TO WORK LOG)		
SAMPLE DELIVERED BY Fed X		SIGNATURE DATE 10/4/91
ANALYSIS REQUEST		
WORK DESCRIPTION		
(601, 602, (CPTA 200 metal))		
SPECIAL INSTRUCTIONS		
BILLING: ☐ PICKUP ☐ MAIL	LOGGED IN BY 4/7/91	

TRANSWESTERN PIPELINE COMPANY

CHAIN OF CUSTODY

District: Hobbs 5160

Date: 10-3-91

Sample Location
Valve or Receiver No.

Vol. Collect.
During Flush

Sampler

SAMPLE ID NUMBER	SOLVENT USED	SAMPLE ICED	ANALYSES REQUESTED
MW-1 R	—	YES	601-602 - EPA 300
MW-1 A	—	YES	601-602 - EPA 200
MW-1	—	YES	601-602 - EPA 200

19
141
2 vials

Relinquished By	<u>Mike Greene</u>	Date	<u>10/3/91</u>
Relinquished To	<u>Federal Express</u>	Date	<u>10/3/91</u>
Relinquished By	_____	Date	_____
Relinquished To	_____	Date	_____
Relinquished By	_____	Date	_____
Relinquished To	_____	Date	_____
Relinquished By	_____	Date	_____
Relinquished To	_____	Date	_____

Laboratory: _____ Date: _____
 Received: _____

Standard Turnaround

Assaigai Analytical Labs
7300 Jefferson NE
Albuquerque, NM 87109

Attn: SYED RIZVI
Phone: (505) 345-8964

ENRON/TRANSWESTERN PIPELINE
HOBBS PLANT
2626 WEST MARLAND
HOBBS, NM 88240
Attn: MIKE KNEESE
Invoice Number: 912319

Order #: 91-10-052
Date: 10/18/91 14:40
Work ID: DISTRICT HOBBS 5160
Date Received: 10/04/91
Date Completed: 10/18/91

8451

SAMPLE IDENTIFICATION

<u>Sample Number</u>	<u>Sample Description</u>	<u>Sample Number</u>	<u>Sample Description</u>
01	EUNICE MW-2		

QUESTIONS ABOUT THIS REPORT SHOULD BE ADDRESSED TO:
LABORATORY OPERATIONS MANAGER/ASSAIGAI ANALYTICAL
7300 JEFFERSON N.E., ALBUQUERQUE, N.M. 87109

Syed Rizvi

Certified By
SYED N. RIZVI



Order # 91-10-052
10/18/91 14:40

Assaigai Analytical Labs

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TEST RESULTS BY SAMPLE

Sample: 01A EUNICE MW-2

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
PURGEABLE AROMATICS		50.0			
BENZENE	5200	50	UG/L	10/15/91	DD
CHLOROBENZENE	<50	50	UG/L	10/15/91	DD
1,4-DICHLOROBENZENE	<50	50	UG/L	10/15/91	DD
1,3-DICHLOROBENZENE	<50	50	UG/L	10/15/91	DD
1,2-DICHLOROBENZENE	<50	50	UG/L	10/15/91	DD
ETHYL BENZENE	1200	50	UG/L	10/15/91	DD
TOLUENE	<50	50	UG/L	10/15/91	DD
PURGEABLE HALOCARBONS		1.0			
BROMODICHLOROMETHANE	<1.0	1.0	UG/L	10/14/91	DD
BROMOFORM	<1.0	1.0	UG/L	10/14/91	DD
BROMOMETHANE	<1.0	1.0	UG/L	10/14/91	DD
CARBON TETRACHLORIDE	<1.0	1.0	UG/L	10/14/91	DD
CHLOROBENZENE	<1.0	1.0	UG/L	10/14/91	DD
CHLOROETHANE	<1.0	1.0	UG/L	10/14/91	DD
CHLOROFORM	<1.0	1.0	UG/L	10/14/91	DD
2-CHLOROETHYL VINYL ETHER	<1.0	1.0	UG/L	10/14/91	DD
CHLOROMETHANE	<1.0	1.0	UG/L	10/14/91	DD
DIBROMOCHLOROMETHANE	<1.0	1.0	UG/L	10/14/91	DD
1,2-DICHLOROBENZENE	<1.0	1.0	UG/L	10/14/91	DD
1,3-DICHLOROBENZENE	<1.0	1.0	UG/L	10/14/91	DD
1,4-DICHLOROBENZENE	<1.0	1.0	UG/L	10/14/91	DD
DICHLORODIFLUOROMETHANE	<1.0	1.0	UG/L	10/14/91	DD

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10/18/91 14:40

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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
1,1-DICHLOROETHANE	<1.0	1.0	UG/L	10/14/91	DD
1,2-DICHLOROETHANE	<1.0	1.0	UG/L	10/14/91	DD
1,1-DICHLOROETHENE	<1.0	1.0	UG/L	10/14/91	DD
trans-1,2-DICHLOROETHENE	<1.0	1.0	UG/L	10/14/91	DD
1,2-DICHLOROPROPANE	<1.0	1.0	UG/L	10/14/91	DD
cis-1,3-DICHLOROPROPENE	<1.0	1.0	UG/L	10/14/91	DD
1,1,2,2-TETRACHLOROETHANE	<1.0	1.0	UG/L	10/14/91	DD
trans-1,3-DICHLOROPROPENE	<1.0	1.0	UG/L	10/14/91	DD
METHYLENE CHLORIDE	<1.0	1.0	UG/L	10/14/91	DD
1,1,1-TRICHLOROETHANE	<1.0	1.0	UG/L	10/14/91	DD
1,1,2-TRICHLOROETHANE	<1.0	1.0	UG/L	10/14/91	DD
TETRACHLOROETHENE	<1.0	1.0	UG/L	10/14/91	DD
TRICHLOROFLUOROMETHANE	<1.0	1.0	UG/L	10/14/91	DD
TRICHLOROETHENE	<1.0	1.0	UG/L	10/14/91	DD
VINYL CHLORIDE	<1.0	1.0	UG/L	10/14/91	DD

Sample: 01B EUNICE MW-2

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
ALUMINUM (TOTAL)	<1.0	1.0	MG/L	10/08/91	JB
BARIUM (TOTAL)	2.45	0.50	MG/L	10/08/91	JB
CALCIUM (TOTAL)	230	0.1	MG/L	10/08/91	JB
CHROMIUM (TOTAL)	<0.02	0.02	MG/L	10/08/91	JB
IRON (TOTAL)	3.91	0.05	MG/L	10/08/91	JB
LEAD (TOTAL)	0.23	0.1	MG/L	10/08/91	JB
LITHIUM (TOTAL)	0.13	0.05	MG/L	10/08/91	JB



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Assaigai Analytical Labs

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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
MAGNESIUM (TOTAL)	10.0	0.005	MG/L	10/08/91	JB
MANGANESE (TOTAL)	0.23	0.02	MG/L	10/08/91	JB
POTASSIUM (TOTAL)	11.2	0.05	MG/L	10/08/91	JB
SODIUM (TOTAL)	2500	0.02	MG/L	10/08/91	JB
STRONTIUM (TOTAL)	4.24	0.005	MG/L	10/08/91	JB
ZINC (TOTAL)	0.02	0.01	MG/L	10/08/91	JB



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Order # 1-10-052
10/18/91 14:40

Assaigai Analytical Labs

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REGULAR TEST RESULTS BY TEST

ALUMINUM (TOTAL)		Minimum:	1.0	Maximum:	20
Method: EPA 202					
<u>Sample</u>	<u>Sample Description</u>	<u>Result</u>	<u>Units</u>	<u>Extracted</u>	<u>Analyzed</u>
01B	EUNICE MW-2	<1.0	MG/L	10/05/91	10/08/91 JB
BARIUM (TOTAL)		Minimum:	0.50	Maximum:	20
Method: EPA 208					
<u>Sample</u>	<u>Sample Description</u>	<u>Result</u>	<u>Units</u>	<u>Extracted</u>	<u>Analyzed</u>
01B	EUNICE MW-2	2.45	MG/L	10/05/91	10/08/91 JB
CALCIUM (TOTAL)		Minimum:	0.1	Maximum:	100
Method: EPA 215.1					
<u>Sample</u>	<u>Sample Description</u>	<u>Result</u>	<u>Units</u>	<u>Extracted</u>	<u>Analyzed</u>
01B	EUNICE MW-2	230	MG/L	10/05/91	10/08/91 JB
CHROMIUM (TOTAL)		Minimum:	0.02	Maximum:	20
Method: EPA 218					
<u>Sample</u>	<u>Sample Description</u>	<u>Result</u>	<u>Units</u>	<u>Extracted</u>	<u>Analyzed</u>
01B	EUNICE MW-2	<0.02	MG/L	10/05/91	10/08/91 JB



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IRON (TOTAL)

Method: EPA 236

Sample Sample Description

01B EUNICE MW-2

Minimum: 0.05 Maximum: 20

Result

3.91

Units Extracted Analyzed By

MG/L 10/05/91 10/08/91 JB

LEAD (TOTAL)

Method: EPA 239

Sample Sample Description

01B EUNICE MW-2

Minimum: 0.1 Maximum: 20

Result

0.23

Units Extracted Analyzed By

MG/L 10/05/91 10/08/91 JB

LITHIUM (TOTAL)

Method: EPA 200

Sample Sample Description

01B EUNICE MW-2

Minimum: 0.05 Maximum: 20

Result

0.13

Units Extracted Analyzed By

MG/L 10/05/91 10/08/91 JB

MAGNESIUM (TOTAL)

Method: EPA 242.1

Sample Sample Description

01B EUNICE MW-2

Minimum: 0.005 Maximum: 20

Result

10.0

Units Extracted Analyzed By

MG/L 10/05/91 10/08/91 JB



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10/18/91 14:40

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MANGANESE (TOTAL)
Method: EPA 243

Minimum: 0.02 Maximum: 20
Result 0.23
Sample Description
01B EUNICE MW-2
Units Extracted Analyzed By
MG/L 10/05/91 10/08/91 JB

POTASSIUM (TOTAL)
Method: EPA 258.1

Minimum: 0.05 Maximum: 20
Result 11.2
Sample Description
01B EUNICE MW-2
Units Extracted Analyzed By
MG/L 10/05/91 10/08/91 JB

SODIUM (TOTAL)
Method: EPA 273.1

Minimum: 0.02 Maximum: 20
Result 2500
Sample Description
01B EUNICE MW-2
Units Extracted Analyzed By
MG/L 10/05/91 10/08/91 JB

STRONTIUM (TOTAL)
Method: EPA 200

Minimum: 0.005 Maximum: 20
Result 4.24
Sample Description
01B EUNICE MW-2
Units Extracted Analyzed By
MG/L 10/05/91 10/08/91 JB



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Independent Laboratories, Inc.

Order # 91-10-052
10/18/91 14:40

Assaigai Analytical Labs

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ZINC (TOTAL)
Method: EPA 289

Minimum: 0.01 Maximum: 20

Sample Sample Description
01B EUNICE MW-2

Result
0.02

Units Extracted Analyzed By
MG/L 10/05/91 10/08/91 JB



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Order # 51-10-052
10/18/91 14:40

Assaigai Analytical Labs

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TEST METHODOLOGIES

USEPA METHOD # 202

BARIUM: USEPA METHOD # 208

CALCIUM: USEPA METHOD # 215.1

CHROMIUM: USEPA METHOD # 218

IRON: USEPA METHOD # 236

POTASSIUM: USEPA METHOD # 258.1

LITHIUM: USEPA METHOD # 200

USEPA METHOD # 242.1

USEPA METHOD # 243

USEPA METHOD # 273.1

USEPA METHOD # 239

PURGEABLE HALOCARBONS = USEPA METHOD #601
ANALYZED ON GC-PURGE & TRAP

PURGEABLE AROMATICS: USEPA METHOD #602
ANALYZED ON GC-PURGE & TRAP



Member: American Council of
Independent Laboratories, Inc.

TRANSWESTERN PIPELINE/ENRON
CLIENT LOG-IN PROBLEMS/INCONSISTENCIES

DATE RECEIVED: 10-4-91 WO #: 8451

DISTRICT: Hobbs CONTACT: Mike Kneese

PROBLEMS/INCONSISTENCIES ON CHAIN OF CUSTODY (COC):

NO CHAIN OF CUSTODY INCLUDED WITH SAMPLES..... ☐

DISTRICT LEFT BLANK..... ☐

DATE SAMPLED LEFT BLANK..... ☒

NO ANALYTES REQUESTED..... ☐

ILLEGIBLE HANDWRITING..... ☐

SAMPLE SITE LEFT BLANK..... ☐

TURN AROUND TIME NOT INDICATED..... ☐

SAMPLE ID ON CONTAINER & COC INCONSISTENT..... ☐

CHAIN OF CUSTODY NOT RELINQUISHED..... ☐

SAMPLES RECEIVED DAMAGED..... ☐

SAMPLES RECEIVED UNSEALED..... ☐

COMMENTS: _____

SAMPLES LOGGED IN BY: G. Ay 10-4-91

TRANSWESTERN PIPELINE COMPANY

CHAIN OF CUSTODY

District: Hobbs 5160

Date: 10-3-91

Sample Location
Valve or Receiver No.

Vol. Collect.
During Flush

Sampler

SAMPLE ID NUMBER	SOLVENT USED	SAMPLE ICED	ANALYSES REQUESTED
1 qt 1 qt 2 vials Eunice MW-2A	—	YES	601-602 - FW-2R
FW-2R	—	YES	601-602 - EPA 200
AW-2	—	YES	601-602 - EPA 200

Relinquished By Mike Hearn Date 10-3-91
 Relinquished To Federal Express Date 10-3-91

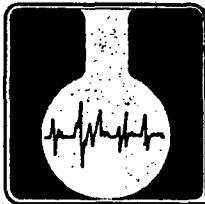
Relinquished By _____ Date _____
 Relinquished To _____ Date _____

Relinquished By _____ Date _____
 Relinquished To _____ Date _____

Relinquished By _____ Date _____
 Relinquished By _____ Date _____

Laboratory: GAJ
 Received: _____ Date 10-21-91

Standard Turnaround



ASSAIGAI ANALYTICAL LABORATORIES

WORK ORDER
8451

☐ HAZARDOUS ☐ NON-HAZARDOUS		DATE RECEIVED 10-4-91	ESTIMATED COST
CUSTOMER P.O. NUMBER		TIME RECEIVED 11:35	DUE DATE 10-18-91
ACCOUNT INFORMATION			
CUSTOMER'S NAME ENKUM		CONTACT Mike Kneese	
ADDRESS		PHONE NUMBER	
CITY / STATE / ZIP Hubbs			
PARTY RESPONSIBLE FOR PAYMENT IF OTHER THAN ABOVE			ACCOUNT STATUS
NAME		CONTACT	
ADDRESS		PHONE NUMBER	
CITY / STATE / ZIP		PAYMENT REC'D. ☒ XX	
		OPEN ACCOUNT ☐	
		CASH ☐	
		CHECK NUMBER ☐	
SPECIAL BILLING INSTRUCTIONS			
SAMPLE INFORMATION			
TYPE OF SAMPLE	NO. OF SAMPLES	*TURN AROUND TIME	SAMPLE IDENTIFICATION AND / OR SAMPLE SITE
☒ WATER	3	☒ REGULAR (10 WKG DAYS)	Hubbs 5160
☐ SOIL		☐ RUSH (3 DAYS)	
☐ OIL	NO. OF CONTAINERS	☐ EMERGENCY (STAT)	Eumce
☐ SLUDGE	4		
☐ OTHER			
SAMPLE DELIVERED BY Fed X		SIGNATURE Hubbs	
		DATE 10-4-91	
ANALYSIS REQUEST			
WORK DESCRIPTION			
601, 602			
EPA 200 Series			
Hubbs			
SPECIAL INSTRUCTIONS			
BILLING: ☐ PICKUP ☐ MAIL		LOGGED IN BY [Signature]	

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Test Description	Result	Limit	Units	Analyzed	By
ISOBUTANOL	<10	10	MG/L	10/17/91	SS
2-ETHOXYETHANOL	<10	10	MG/L	10/17/91	SS
2-NITROPROPANE	<.020	.020	MG/L	10/17/91	SS
Surrogates					
4-BROMOFLUOROBENZENE	96	Min: 86	Max: 115		
1,2-DICHLOROETHANE-d4	79	Min: 76	Max: 114		
TOLUENE-d8	102	Min: 88	Max: 110		
TCLP METALS					
ARSENIC	0.018	0.005	MG/L		JB
BARIUM	1.09	0.50	MG/L		JB
CADMIUM	0.027	0.003	MG/L		JB
CHROMIUM	0.05	0.02	MG/L		JB
LEAD	<0.10	0.10	MG/L		JB
MERCURY	<0.0002	0.0002	MG/L		JB
SELENIUM	<0.005	0.005	MG/L		JB
SILVER	0.028	0.010	MG/L		JB
TCLP ORGANICS ENRON LIST					
BENZENE	<.020	.020	MG/L	10/15/91	SS
CARBON TETRACHLORIDE	<.020	.020	MG/L	10/15/91	SS
CHLOROBENZENE	<.020	.020	MG/L	10/15/91	SS
CHLOROFORM	<.020	.020	MG/L	10/15/91	SS
1,2-DICHLOROETHANE	<.020	.020	MG/L	10/15/91	SS
1,1-DICHLOROETHYLENE	<.020	.020	MG/L	10/15/91	SS
METHYL ETHYL KETONE	<.020	.020	MG/L	10/15/91	SS
TETRACHLOROETHYLENE	<.020	.020	MG/L	10/15/91	SS
TRICHLOROETHYLENE	<.020	.020	MG/L	10/15/91	SS
VINYL CHLORIDE	<.020	.020	MG/L	10/15/91	SS
O-CRESOL	<.001	.001	MG/L	10/15/91	SS



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
M-CRESOL	<.001	.001	MG/L	10/15/91	SS
P-CRESOL	<.001	.001	MG/L	10/15/91	SS
1,4-DICHLOROBENZENE	<.001	.001	MG/L	10/15/91	SS
2,4-DINITROTOLUENE	<.001	.001	MG/L	10/15/91	SS
HEXACHLOROBENZENE	<.001	.001	MG/L	10/15/91	SS
HEXACHLORO-1,3-BUTADIENE	<.001	.001	MG/L	10/15/91	SS
HEXACHLOROETHANE	<.001	.001	MG/L	10/15/91	SS
NITROBENZENE	<.001	.001	MG/L	10/15/91	SS
PENTACHLOROPHENOL	<.001	.001	MG/L	10/15/91	SS
PYRIDINE	<.001	.001	MG/L	10/15/91	SS
2,4,5-TRICHLOROPHENOL	<.001	.001	MG/L	10/15/91	SS
2,4,6-TRICHLOROPHENOL	<.001	.001	MG/L	10/15/91	SS
Surrogates					
NITROBENZENE-d5	66	Min: 35	Max: 114		
2-FLUOROBIPHENYL	76	Min: 43	Max: 116		
TERPHENYL-d14	78	Min: 33	Max: 141		
PHENOL-d5	22	Min: 10	Max: 94		
2-FLUOROPHENOL	35	Min: 21	Max: 100		
TOTAL REC PET HYDROCARBONS	<5.0	5.0	MG/KG	10/14/91	PV

Sample: 05A BH-20 50.0'-50.3' Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
BENZENE, TOLUENE, EBENZ, XYLE		0.1			
BENZENE	<0.1	0.1	MG/KG	10/10/91	DD
TOLUENE	<0.1	0.1	MG/KG	10/10/91	DD



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Test Description	Result	Limit	Units	Analyzed	By
ETHYL BENZENE	<0.1	0.1	MG/KG	10/10/91	DD
XYLENES	<0.1	0.1	MG/KG	10/10/91	DD
TCLP F SERIES ENRON LIST					
METHYLENE CHLORIDE	<.020	.020	MG/L	10/17/91	SS
1,1,1-TRICHLOROETHANE	<.020	.020	MG/L	10/17/91	SS
TRICHLORO-TRIFLUOROETHANE	<.020	.020	MG/L	10/17/91	SS
ORTHO-DICHLOROBENZENE	<.020	.020	MG/L	10/17/91	SS
TRICHLOROFLUOROMETHANE	<.020	.020	MG/L	10/17/91	SS
XYLENE	<.020	.020	MG/L	10/17/91	SS
ACETONE	<10	10	MG/L	10/17/91	SS
ETHYL ACETATE	<10	10	MG/L	10/17/91	SS
ETHYL BENZENE	<.020	.020	MG/L	10/17/91	SS
ETHYL ETHER	<.020	.020	MG/L	10/17/91	SS
METHYL ISOBUTYL KETONE	<.020	.020	MG/L	10/17/91	SS
n-BUTYL ALCOHOL	<10	10	MG/L	10/17/91	SS
CYCLOHEXANONE	<.020	.020	MG/L	10/17/91	SS
METHANOL	<10	10	MG/L	10/17/91	SS
CRESYLIC ACID	<.001	.001	MG/L	10/17/91	SS
TOLUENE	<.020	.020	MG/L	10/17/91	SS
CARBON DISULFIDE	<.020	.020	MG/L	10/17/91	SS
ISOBUTANOL	<10	10	MG/L	10/17/91	SS
2-ETHOXYETHANOL	<10	10	MG/L	10/17/91	SS
2-NITROPROPANE	<.020	.020	MG/L	10/17/91	SS
Surrogates					
4-BROMOFLUOROBENZENE	97	Min: 86	Max: 115		
1,2-DICHLOROETHANE-d4	74 Q	Min: 76	Max: 114		
TOLUENE-d8	104	Min: 88	Max: 110		
TCLP METALS					



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
ARSENIC	0.007	0.005	MG/L		JB
BARIUM	0.98	0.50	MG/L		JB
CADMIUM	0.024	0.003	MG/L		JB
CHROMIUM	0.03	0.02	MG/L		JB
LEAD	<0.10	0.10	MG/L		JB
MERCURY	<0.0002	0.0002	MG/L		JB
SELENIUM	<0.005	0.005	MG/L		JB
SILVER	0.023	0.010	MG/L		JB
TCCLP ORGANICS ENRON LIST					
BENZENE	<.020	.020	MG/L	10/17/91	SS
CARBON TETRACHLORIDE	<.020	.020	MG/L	10/17/91	SS
CHLOROBENZENE	<.020	.020	MG/L	10/17/91	SS
CHLOROFORM	<.020	.020	MG/L	10/17/91	SS
1,2-DICHLOROETHANE	<.020	.020	MG/L	10/17/91	SS
1,1-DICHLOROETHYLENE	<.020	.020	MG/L	10/17/91	SS
METHYL ETHYL KETONE	<.020	.020	MG/L	10/17/91	SS
TETRACHLOROETHYLENE	<.020	.020	MG/L	10/17/91	SS
TRICHLOROETHYLENE	<.020	.020	MG/L	10/17/91	SS
VINYL CHLORIDE	<.020	.020	MG/L	10/17/91	SS
O-CRESOL	<.001	.001	MG/L	10/17/91	SS
M-CRESOL	<.001	.001	MG/L	10/17/91	SS
P-CRESOL	<.001	.001	MG/L	10/17/91	SS
1,4-DICHLOROBENZENE	<.001	.001	MG/L	10/17/91	SS
2,4-DINITROTOLUENE	<.001	.001	MG/L	10/17/91	SS
HEXACHLOROBENZENE	<.001	.001	MG/L	10/17/91	SS
HEXACHLORO-1,3-BUTADIENE	<.001	.001	MG/L	10/17/91	SS
HEXACHLOROETHANE	<.001	.001	MG/L	10/17/91	SS
NITROBENZENE	<.001	.001	MG/L	10/17/91	SS



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
PENTACHLOROPHENOL	<.001	.001	MG/L	10/17/91	SS
PYRIDINE	<.001	.001	MG/L	10/17/91	SS
2,4,5-TRICHLOROPHENOL	<.001	.001	MG/L	10/17/91	SS
2,4,6-TRICHLOROPHENOL	<.001	.001	MG/L	10/17/91	SS
Surrogates					
NITROBENZENE-d5	69	Min: 35	Max: 114		
2-FLUOROBIPHENYL	69	Min: 43	Max: 116		
TERPHENYL-d14	33	Min: 33	Max: 141		
PHENOL-d5	58	Min: 10	Max: 94		
2-FLUOROPHENOL	68	Min: 21	Max: 100		
TOTAL REC PET HYDROCARBONS	<5.0	5.0	MG/KG	10/14/91	PV

Sample: 06A BH-14 7.2'-7.6'

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
BENZENE, TOLUENE, EBENZ, XYLE		0.1			
BENZENE	0.13	0.1	MG/KG	10/10/91	DD
TOLUENE	<0.1	0.1	MG/KG	10/10/91	DD
ETHYL BENZENE	6.4	0.1	MG/KG	10/10/91	DD
XYLENES	3.7	0.1	MG/KG	10/10/91	DD
TCLP F SERIES ENRON LIST					
METHYLENE CHLORIDE	<.020	.020	MG/L	10/17/91	SS
1,1,1-TRICHLOROETHANE	<.020	.020	MG/L	10/17/91	SS
TRICHLORO-TRIFLUOROETHANE	<.020	.020	MG/L	10/17/91	SS
ORTHO-DICHLOROBENZENE	<.020	.020	MG/L	10/17/91	SS
TRICHLOROFLUOROMETHANE	<.020	.020	MG/L	10/17/91	SS



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Test Description	Result	Limit	Units	Analyzed	By
XYLENE	<.020	.020	MG/L	10/17/91	SS
ACETONE	<10	10	MG/L	10/17/91	SS
ETHYL ACETATE	<10	10	MG/L	10/17/91	SS
ETHYL BENZENE	.028	.020	MG/L	10/17/91	SS
ETHYL ETHER	<.020	.020	MG/L	10/17/91	SS
METHYL ISOBUTYL KETONE	<.020	.020	MG/L	10/17/91	SS
n-BUTYL ALCOHOL	<10	10	MG/L	10/17/91	SS
CYCLOHEXANONE	<.020	.020	MG/L	10/17/91	SS
METHANOL	<10	10	MG/L	10/17/91	SS
CRESYLIC ACID	<.001	.001	MG/L	10/17/91	SS
TOLUENE	<.020	.020	MG/L	10/17/91	SS
CARBON DISULFIDE	<.020	.020	MG/L	10/17/91	SS
ISOBUTANOL	<10	10	MG/L	10/17/91	SS
2-ETHOXYETHANOL	<10	10	MG/L	10/17/91	SS
2-NITROPROPANE	<.020	.020	MG/L	10/17/91	SS
Surrogates					
4-BROMOFLUOROBENZENE	98	Min: 86	Max: 115		
1,2-DICHLOROETHANE-d4	75 Q	Min: 76	Max: 114		
TOLUENE-d8	105	Min: 88	Max: 110		
TCLP METALS					
ARSENIC	0.010	0.005	MG/L		JB
BARIUM	3.31	0.50	MG/L		JB
CADMIUM	0.029	0.003	MG/L		JB
CHROMIUM	0.04	0.02	MG/L		JB
LEAD	<0.10	0.10	MG/L		JB
MERCURY	<0.0002	0.0002	MG/L		JB
SELENIUM	<0.005	0.005	MG/L		JB
SILVER	0.027	0.010	MG/L		JB



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Test Description
TCCLP ORGANICS ENRON LIST

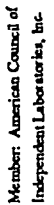
<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
BENZENE	<.020	.020	MG/L	10/15/91	SS
CARBON TETRACHLORIDE	<.020	.020	MG/L	10/15/91	SS
CHLOROBENZENE	<.020	.020	MG/L	10/15/91	SS
CHLOROFORM	<.020	.020	MG/L	10/15/91	SS
1,2-DICHLOROETHANE	<.020	.020	MG/L	10/15/91	SS
1,1-DICHLOROETHYLENE	<.020	.020	MG/L	10/15/91	SS
METHYL ETHYL KETONE	<.020	.020	MG/L	10/15/91	SS
TETRACHLOROETHYLENE	<.020	.020	MG/L	10/15/91	SS
TRICHLOROETHYLENE	<.020	.020	MG/L	10/15/91	SS
VINYL CHLORIDE	<.020	.020	MG/L	10/15/91	SS
O-CRESOL	<.001	.001	MG/L	10/15/91	SS
M-CRESOL	<.001	.001	MG/L	10/15/91	SS
P-CRESOL	<.001	.001	MG/L	10/15/91	SS
1,4-DICHLOROBENZENE	<.001	.001	MG/L	10/15/91	SS
2,4-DINITROTOLUENE	<.001	.001	MG/L	10/15/91	SS
HEXACHLOROBENZENE	<.001	.001	MG/L	10/15/91	SS
HEXACHLORO-1,3-BUTADIENE	<.001	.001	MG/L	10/15/91	SS
HEXACHLOROETHANE	<.001	.001	MG/L	10/15/91	SS
NITROBENZENE	<.001	.001	MG/L	10/15/91	SS
PENTACHLOROPHENOL	<.001	.001	MG/L	10/15/91	SS
PYRIDINE	<.001	.001	MG/L	10/15/91	SS
2,4,5-TRICHLOROPHENOL	<.001	.001	MG/L	10/15/91	SS
2,4,6-TRICHLOROPHENOL	<.001	.001	MG/L	10/15/91	SS
Surrogates					
NITROBENZENE-d5	75	Min: 35	Max: 114		
2-FLUOROBIPHENYL	59	Min: 43	Max: 116		
TERPHENYL-d14	47	Min: 33	Max: 141		
PHENOL-d5	65	Min: 10	Max: 94		
2-FLUOROPHENOL	75	Min: 21	Max: 100		



<u>Result</u>	1800
<u>Limit</u>	5.0

Collected:

<u>Result</u>	<u>Limit</u>
1.3	0.1
1.3	0.1
17	0.1
29	0.1

[illegible]

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Test Description	Result	Limit	Units	Analyzed	By
ISOBUTANOL	<10	10	MG/L	10/17/91	SS
2-ETHOXYETHANOL	<10	10	MG/L	10/17/91	SS
2-NITROPROPANE	<.020	.020	MG/L	10/17/91	SS
Surrogates					
4-BROMOFLUOROBENZENE	96	Min: 86	Max: 115		
1,2-DICHLOROETHANE-d4	75 Q	Min: 76	Max: 114		
TOLUENE-d8	108	Min: 88	Max: 110		
TCLP METALS					
ARSENIC	0.009	0.005	MG/L		JB
BARIUM	2.24	0.50	MG/L		JB
CADMIUM	0.028	0.003	MG/L		JB
CHROMIUM	0.03	0.02	MG/L		JB
LEAD	<0.10	0.10	MG/L		JB
MERCURY	<0.0002	0.0002	MG/L		JB
SELENIUM	<0.005	0.005	MG/L		JB
SILVER	0.026	0.010	MG/L		JB
TCLP ORGANICS ENRON LIST					
BENZENE	<.020	.020	MG/L	10/15/91	SS
CARBON TETRACHLORIDE	<.020	.020	MG/L	10/15/91	SS
CHLOROBENZENE	<.020	.020	MG/L	10/15/91	SS
CHLOROFORM	<.020	.020	MG/L	10/15/91	SS
1,2-DICHLOROETHANE	<.020	.020	MG/L	10/15/91	SS
1,1-DICHLOROETHYLENE	<.020	.020	MG/L	10/15/91	SS
METHYL ETHYL KETONE	<.020	.020	MG/L	10/15/91	SS
TETRACHLOROETHYLENE	<.020	.020	MG/L	10/15/91	SS
TRICHLOROETHYLENE	<.020	.020	MG/L	10/15/91	SS
VINYL CHLORIDE	<.020	.020	MG/L	10/15/91	SS
O-CRESOL	<.001	.001	MG/L	10/15/91	SS



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
M-CRESOL	<.001	.001	MG/L	10/15/91	SS
P-CRESOL	<.001	.001	MG/L	10/15/91	SS
1,4-DICHLOROBENZENE	<.001	.001	MG/L	10/15/91	SS
2,4-DINITROTOLUENE	<.001	.001	MG/L	10/15/91	SS
HEXACHLOROBENZENE	<.001	.001	MG/L	10/15/91	SS
HEXACHLORO-1,3-BUTADIENE	<.001	.001	MG/L	10/15/91	SS
HEXACHLOROETHANE	<.001	.001	MG/L	10/15/91	SS
NITROBENZENE	<.001	.001	MG/L	10/15/91	SS
PENTACHLOROPHENOL	<.001	.001	MG/L	10/15/91	SS
PYRIDINE	<.001	.001	MG/L	10/15/91	SS
2,4,5-TRICHLOROPHENOL	<.001	.001	MG/L	10/15/91	SS
2,4,6-TRICHLOROPHENOL	<.001	.001	MG/L	10/15/91	SS
Surrogates					
NITROBENZENE-d5	76	Min: 35	Max: 114		
2-FLUOROBIPHENYL	73	Min: 43	Max: 116		
TERPHENYL-d14	51	Min: 33	Max: 141		
PHENOL-d5	70	Min: 10	Max: 94		
2-FLUOROPHENOL	78	Min: 21	Max: 100		
TOTAL REC PET HYDROCARBONS	6200	5.0	MG/KG	10/14/91	PV

Sample: 08A BH-14 29.9'-30.3'

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
BENZENE, TOLUENE, EBENZ, XYLE		0.1			
BENZENE	0.11	0.1	MG/KG	10/10/91	DD
TOLUENE	3.3	0.1	MG/KG	10/10/91	DD



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
ETHYL BENZENE	12	0.1	MG/KG	10/10/91	DD
XYLENES	25	0.1	MG/KG	10/10/91	DD
TCLP F SERIES ENRON LIST					
METHYLENE CHLORIDE	<.020	.020	MG/L	10/17/91	SS
1,1,1-TRICHLOROETHANE	<.020	.020	MG/L	10/17/91	SS
TRICHLORO-TRIFLUOROETHANE	<.020	.020	MG/L	10/17/91	SS
ORTHO-DICHLOROBENZENE	<.020	.020	MG/L	10/17/91	SS
TRICHLOROFLUOROMETHANE	<.020	.020	MG/L	10/17/91	SS
XYLENE	.106	.020	MG/L	10/17/91	SS
ACETONE	<10	10	MG/L	10/17/91	SS
ETHYL ACETATE	<10	10	MG/L	10/17/91	SS
ETHYL BENZENE	.026	.020	MG/L	10/17/91	SS
ETHYL ETHER	<.020	.020	MG/L	10/17/91	SS
METHYL ISOBUTYL KETONE	<.020	.020	MG/L	10/17/91	SS
n-BUTYL ALCOHOL	<10	10	MG/L	10/17/91	SS
CYCLOHEXANONE	<.020	.020	MG/L	10/17/91	SS
METHANOL	<10	10	MG/L	10/17/91	SS
CRESYLIC ACID	<.001	.001	MG/L	10/17/91	SS
TOLUENE	<.020	.020	MG/L	10/17/91	SS
CARBON DISULFIDE	<.020	.020	MG/L	10/17/91	SS
ISOBUTANOL	<10	10	MG/L	10/17/91	SS
2-ETHOXYETHANOL	<10	10	MG/L	10/17/91	SS
2-NITROPROPANE	<.020	.020	MG/L	10/17/91	SS
Surrogates					
4-BROMOFLUOROBENZENE	99	Min: 86	Max: 115		
1,2-DICHLOROETHANE-d4	84	Min: 76	Max: 114		
TOLUENE-d8	106	Min: 88	Max: 110		
TCLP METALS					



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
ARSENIC	0.005	0.005	MG/L		JB
BARIUM	<0.50	0.50	MG/L		JB
CADMIUM	0.018	0.003	MG/L		JB
CHROMIUM	<0.02	0.02	MG/L		JB
LEAD	<0.10	0.10	MG/L		JB
MERCURY	<0.0002	0.0002	MG/L		JB
SELENIUM	<0.005	0.005	MG/L		JB
SILVER	0.012	0.010	MG/L		JB
TCLP ORGANICS ENRON LIST					
BENZENE	<.020	.020	MG/L	10/15/91	SS
CARBON TETRACHLORIDE	<.020	.020	MG/L	10/15/91	SS
CHLOROBENZENE	<.020	.020	MG/L	10/15/91	SS
CHLOROFORM	<.020	.020	MG/L	10/15/91	SS
1,2-DICHLOROETHANE	<.020	.020	MG/L	10/15/91	SS
1,1-DICHLOROETHYLENE	<.020	.020	MG/L	10/15/91	SS
METHYL ETHYL KETONE	<.020	.020	MG/L	10/15/91	SS
TETRACHLOROETHYLENE	<.020	.020	MG/L	10/15/91	SS
TRICHLOROETHYLENE	<.020	.020	MG/L	10/15/91	SS
VINYL CHLORIDE	<.020	.020	MG/L	10/15/91	SS
O-CRESOL	<.001	.001	MG/L	10/15/91	SS
M-CRESOL	<.001	.001	MG/L	10/15/91	SS
P-CRESOL	<.001	.001	MG/L	10/15/91	SS
1,4-DICHLOROBENZENE	<.001	.001	MG/L	10/15/91	SS
2,4-DINITROTOLUENE	<.001	.001	MG/L	10/15/91	SS
HEXACHLOROBENZENE	<.001	.001	MG/L	10/15/91	SS
HEXACHLORO-1,3-BUTADIENE	<.001	.001	MG/L	10/15/91	SS
HEXACHLOROETHANE	<.001	.001	MG/L	10/15/91	SS
NITROBENZENE	<.001	.001	MG/L	10/15/91	SS



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
PENTACHLOROPHENOL	<.001	.001	MG/L	10/15/91	SS
PYRIDINE	<.001	.001	MG/L	10/15/91	SS
2,4,5-TRICHLOROPHENOL	<.001	.001	MG/L	10/15/91	SS
2,4,6-TRICHLOROPHENOL	<.001	.001	MG/L	10/15/91	SS
Surrogates					
NITROBENZENE-d5	83	Min: 35	Max: 114		
2-FLUOROBIPHENYL	69	Min: 43	Max: 116		
TERPHENYL-d14	63	Min: 33	Max: 141		
PHENOL-d5	69	Min: 10	Max: 94		
2-FLUOROPHENOL	80	Min: 21	Max: 100		
TOTAL REC PET HYDROCARBONS	5200	5.0	MG/KG	10/14/91	PV

Sample: 09A BH-14 51.3'-51.7'

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
BENZENE, TOLUENE, EBENZ, XYLE		0.1			
BENZENE	1.5	0.1	MG/KG	10/10/91	DD
TOLUENE	11	0.1	MG/KG	10/10/91	DD
ETHYL BENZENE	18	0.1	MG/KG	10/10/91	DD
XYLENES	34	0.1	MG/KG	10/10/91	DD
TCLP F SERIES ENRON LIST					
METHYLENE CHLORIDE	<.020	.020	MG/L	10/17/91	SS
1,1,1-TRICHLOROETHANE	<.020	.020	MG/L	10/17/91	SS
TRICHLORO-TRIFLUOROETHANE	<.020	.020	MG/L	10/17/91	SS
ORTHO-DICHLOROBENZENE	<.020	.020	MG/L	10/17/91	SS
TRICHLOROFLUOROMETHANE	<.020	.020	MG/L	10/17/91	SS



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
XYLENE	.262	.020	MG/L	10/17/91	SS
ACETONE	<10	10	MG/L	10/17/91	SS
ETHYL ACETATE	<10	10	MG/L	10/17/91	SS
ETHYL BENZENE	.102	.020	MG/L	10/17/91	SS
ETHYL ETHER	<.020	.020	MG/L	10/17/91	SS
METHYL ISOBUTYL KETONE	<.020	.020	MG/L	10/17/91	SS
n-BUTYL ALCOHOL	<.020	.020	MG/L	10/17/91	SS
CYCLOHEXANONE	<10	10	MG/L	10/17/91	SS
METHANOL	<.020	.020	MG/L	10/17/91	SS
CRESYLIC ACID	<.001	.001	MG/L	10/17/91	SS
TOLUENE	.048	.020	MG/L	10/17/91	SS
CARBON DISULFIDE	<.020	.020	MG/L	10/17/91	SS
ISOBUTANOL	<10	10	MG/L	10/17/91	SS
2-ETHOXYETHANOL	<10	10	MG/L	10/17/91	SS
2-NITROPROPANE	<.020	.020	MG/L	10/17/91	SS
Surrogates					
4-BROMOFLUOROBENZENE	97	Min: 86	Max: 115		
1,2-DICHLOROETHANE-d4	82	Min: 76	Max: 114		
TOLUENE-d8	105	Min: 88	Max: 110		
TCLP METALS					
ARSENIC	<0.005	0.005	MG/L		JB
BARIUM	<0.50	0.50	MG/L		JB
CADMIUM	0.015	0.003	MG/L		JB
CHROMIUM	0.02	0.02	MG/L		JB
LEAD	<0.10	0.10	MG/L		JB
MERCURY	<0.0002	0.0002	MG/L		JB
SELENIUM	<0.005	0.005	MG/L		JB
SILVER	0.010	0.010	MG/L		JB



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
TCLP ORGANICS ENRON LIST					
BENZENE	<.020	.020	MG/L	10/15/91	SS
CARBON TETRACHLORIDE	<.020	.020	MG/L	10/15/91	SS
CHLOROBENZENE	<.020	.020	MG/L	10/15/91	SS
CHLOROFORM	<.020	.020	MG/L	10/15/91	SS
1,2-DICHLOROETHANE	<.020	.020	MG/L	10/15/91	SS
1,1-DICHLOROETHYLENE	<.020	.020	MG/L	10/15/91	SS
METHYL ETHYL KETONE	<.020	.020	MG/L	10/15/91	SS
TETRACHLOROETHYLENE	<.020	.020	MG/L	10/15/91	SS
TRICHLOROETHYLENE	<.020	.020	MG/L	10/15/91	SS
VINYL CHLORIDE	<.020	.020	MG/L	10/15/91	SS
O-CRESOL	<.001	.001	MG/L	10/15/91	SS
M-CRESOL	<.001	.001	MG/L	10/15/91	SS
P-CRESOL	<.001	.001	MG/L	10/15/91	SS
1,4-DICHLOROBENZENE	<.001	.001	MG/L	10/15/91	SS
2,4-DINITROTOLUENE	<.001	.001	MG/L	10/15/91	SS
HEXACHLOROBENZENE	<.001	.001	MG/L	10/15/91	SS
HEXACHLORO-1,3-BUTADIENE	<.001	.001	MG/L	10/15/91	SS
HEXACHLOROETHANE	<.001	.001	MG/L	10/15/91	SS
NITROBENZENE	<.001	.001	MG/L	10/15/91	SS
PENTACHLOROPHENOL	<.001	.001	MG/L	10/15/91	SS
PYRIDINE	<.001	.001	MG/L	10/15/91	SS
2,4,5-TRICHLOROPHENOL	<.001	.001	MG/L	10/15/91	SS
2,4,6-TRICHLOROPHENOL	<.001	.001	MG/L	10/15/91	SS
Surrogates					
NITROBENZENE-d5	75	Min: 35		Max: 114	
2-FLUOROBIPHENYL	61	Min: 43		Max: 116	
TERPHENYL-d14	76	Min: 33		Max: 141	
PHENOL-d5	68	Min: 10		Max: 94	
2-FLUOROPHENOL	80	Min: 21		Max: 100	



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Test Description
TOTAL REC PET HYDROCARBONSUnits Analyzed By
MG/KG 10/14/91 PVResult Limit
7600 5.0

Sample: 10A EP-OF-1

Collected:

Test Description
TCLP METALS

Test Description	Result	Limit	Units	Analyzed	By
ARSENIC	<0.005	0.005	MG/L		JB
BARIUM	<0.50	0.50	MG/L		JB
CADMIUM	0.019	0.003	MG/L		JB
CHROMIUM	<0.02	0.02	MG/L		JB
LEAD	<0.10	0.10	MG/L		JB
MERCURY	<0.0002	0.0002	MG/L		JB
SELENIUM	<0.005	0.005	MG/L		JB
SILVER	<0.010	0.010	MG/L		JB

Sample: 11A BH-19 58.1'-58.5'

Collected:

Test Description
 BENZENE, TOLUENE, EBENZ, XYLE
 BENZENE
 TOLUENE
 ETHYL BENZENE
 XYLENES
 TCLP F SERIES ENRON LIST
 METHYLENE CHLORIDE
 1,1,1-TRICHLOROETHANE

Test Description	Result	Limit	Units	Analyzed	By
BENZENE, TOLUENE, EBENZ, XYLE		0.1			
BENZENE	<0.1	0.1	MG/KG	10/10/91	DD
TOLUENE	<0.1	0.1	MG/KG	10/10/91	DD
ETHYL BENZENE	<0.1	0.1	MG/KG	10/10/91	DD
XYLENES	0.17	0.1	MG/KG	10/10/91	DD
TCLP F SERIES ENRON LIST					
METHYLENE CHLORIDE	<.020	.020	MG/L	10/17/91	SS
1,1,1-TRICHLOROETHANE	<.020	.020	MG/L	10/17/91	SS



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
TRICHLORO-TRIFLUOROETHANE	<.020	.020	MG/L	10/17/91	SS
ORTHO-DICHLOROBENZENE	<.020	.020	MG/L	10/17/91	SS
TRICHLOROFLUOROMETHANE	<.020	.020	MG/L	10/17/91	SS
XYLENE	<.020	.020	MG/L	10/17/91	SS
ACETONE	<10	10	MG/L	10/17/91	SS
ETHYL ACETATE	<10	10	MG/L	10/17/91	SS
ETHYL BENZENE	<.020	.020	MG/L	10/17/91	SS
ETHYL ETHER	<.020	.020	MG/L	10/17/91	SS
METHYL ISOBUTYL KETONE	<.020	.020	MG/L	10/17/91	SS
n-BUTYL ALCOHOL	<10	10	MG/L	10/17/91	SS
CYCLOHEXANONE	<.020	.020	MG/L	10/17/91	SS
METHANOL	<10	10	MG/L	10/17/91	SS
CRESYLIC ACID	<.001	.001	MG/L	10/17/91	SS
TOLUENE	<.020	.020	MG/L	10/17/91	SS
CARBON DISULFIDE	<.020	.020	MG/L	10/17/91	SS
ISOBUTANOL	<10	10	MG/L	10/17/91	SS
2-ETHOXYETHANOL	<10	10	MG/L	10/17/91	SS
2-NITROPROPANE	<.020	.020	MG/L	10/17/91	SS
Surrogates					
4-BROMOFLUOROBENZENE	97	Min: 86	Max: 115		
1,2-DICHLOROETHANE-d4	77	Min: 76	Max: 114		
TOLUENE-d8	105	Min: 88	Max: 110		
TCLP METALS					
ARSENIC	<0.005	0.005	MG/L		JB
BARIUM	<0.50	0.50	MG/L		JB
CADMIUM	0.015	0.003	MG/L		JB
CHROMIUM	<0.02	0.02	MG/L		JB
LEAD	<0.10	0.10	MG/L		JB



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
MERCURY	<0.0002	0.0002	MG/L		JB
SELENIUM	<0.005	0.005	MG/L		JB
SILVER	<0.010	0.010	MG/L		JB
TCCLP ORGANICS ENRON LIST					
BENZENE	<.020	.020	MG/L	10/15/91	SS
CARBON TETRACHLORIDE	<.020	.020	MG/L	10/15/91	SS
CHLOROBENZENE	<.020	.020	MG/L	10/15/91	SS
CHLOROFORM	<.020	.020	MG/L	10/15/91	SS
1,2-DICHLOROETHANE	<.020	.020	MG/L	10/15/91	SS
1,1-DICHLOROETHYLENE	<.020	.020	MG/L	10/15/91	SS
METHYL ETHYL KETONE	<.020	.020	MG/L	10/15/91	SS
TETRACHLOROETHYLENE	<.020	.020	MG/L	10/15/91	SS
TRICHLOROETHYLENE	<.020	.020	MG/L	10/15/91	SS
VINYL CHLORIDE	<.020	.020	MG/L	10/15/91	SS
O-CRESOL	<.001	.001	MG/L	10/15/91	SS
M-CRESOL	<.001	.001	MG/L	10/15/91	SS
P-CRESOL	<.001	.001	MG/L	10/15/91	SS
1,4-DICHLOROBENZENE	<.001	.001	MG/L	10/15/91	SS
2,4-DINITROTOLUENE	<.001	.001	MG/L	10/15/91	SS
HEXACHLOROBENZENE	<.001	.001	MG/L	10/15/91	SS
HEXACHLORO-1,3-BUTADIENE	<.001	.001	MG/L	10/15/91	SS
HEXACHLOROETHANE	<.001	.001	MG/L	10/15/91	SS
NITROBENZENE	<.001	.001	MG/L	10/15/91	SS
PENTACHLOROPHENOL	<.001	.001	MG/L	10/15/91	SS
PYRIDINE	<.001	.001	MG/L	10/15/91	SS
2,4,5-TRICHLOROPHENOL	<.001	.001	MG/L	10/15/91	SS
2,4,6-TRICHLOROPHENOL	<.001	.001	MG/L	10/15/91	SS



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
Surrogates					
NITROBENZENE-d5	75	Min: 35	Max: 114		
2-FLUOROBIPHENYL	68	Min: 43	Max: 116		
TERPHENYL-d14	70	Min: 33	Max: 141		
PHENOL-d5	70	Min: 10	Max: 94		
2-FLUOROPHENOL	81	Min: 21	Max: 100		
TOTAL REC PET HYDROCARBONS	<5.0	5.0	MG/KG	10/14/91	PV



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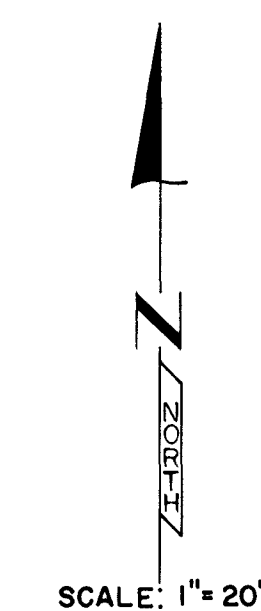
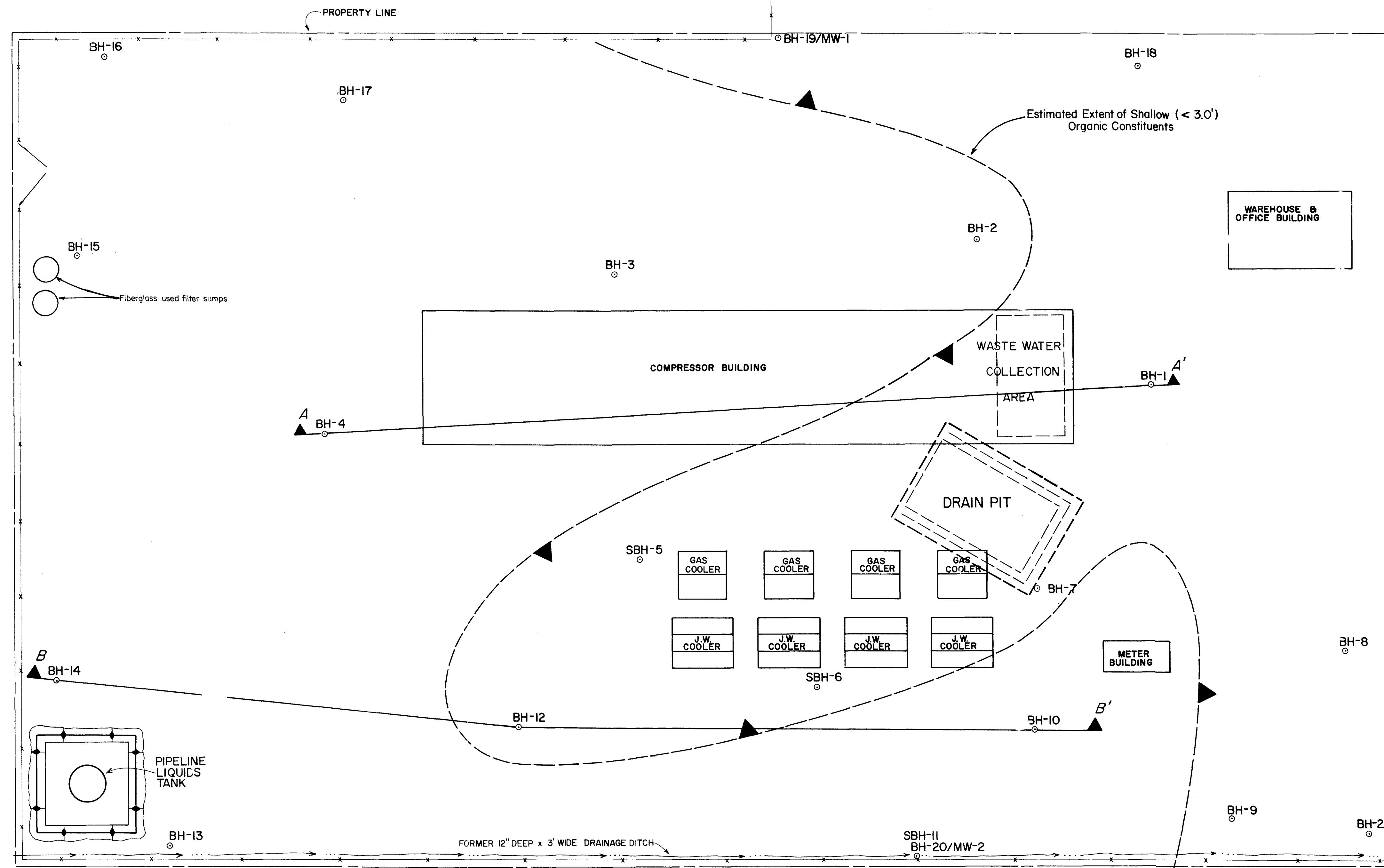
REGULAR TEST RESULTS BY TEST

TOTAL REC PET HYDROCARBONS
Method: EPA 418.1

Minimum: 5.0 Maximum: 100

<u>Sample</u>	<u>Sample Description</u>	<u>Result</u>	<u>Units</u>	<u>Extracted</u>	<u>Analyzed</u>	<u>By</u>
01A	BH-20 4.8'-5.5'	<5.0	MG/KG	10/14/91	10/14/91	PV
02A	BH-20 21.3'-21.6'	<5.0	MG/KG	10/14/91	10/14/91	PV
03A	BH-20 35.2'-35.6'	<5.0	MG/KG	10/14/91	10/14/91	PV
04A	BH-20 31.4'-31.7'	<5.0	MG/KG	10/14/91	10/14/91	PV
05A	BH-20 50.0'-50.3'	<5.0	MG/KG	10/14/91	10/14/91	PV
06A	BH-14 7.2'-7.6'	1800	MG/KG	10/14/91	10/14/91	PV
07A	BH-14 7.9'-9.2'	6200	MG/KG	10/14/91	10/14/91	PV
08A	BH-14 29.9'-30.3'	5200	MG/KG	10/14/91	10/14/91	PV
09A	BH-14 51.3'-51.7'	7600	MG/KG	10/14/91	10/14/91	PV
11A	BH-19 58.1'-58.5'	<5.0	MG/KG	10/14/91	10/14/91	PV





LEGEND

BH-14 Borehole Location
MW-2 Monitor Well Location

RECEIVED

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OIL CONSERVATION DIV.
SANTA FE

METRIC
Corporation

BOREHOLE LOCATIONS

EUNICE GAS COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

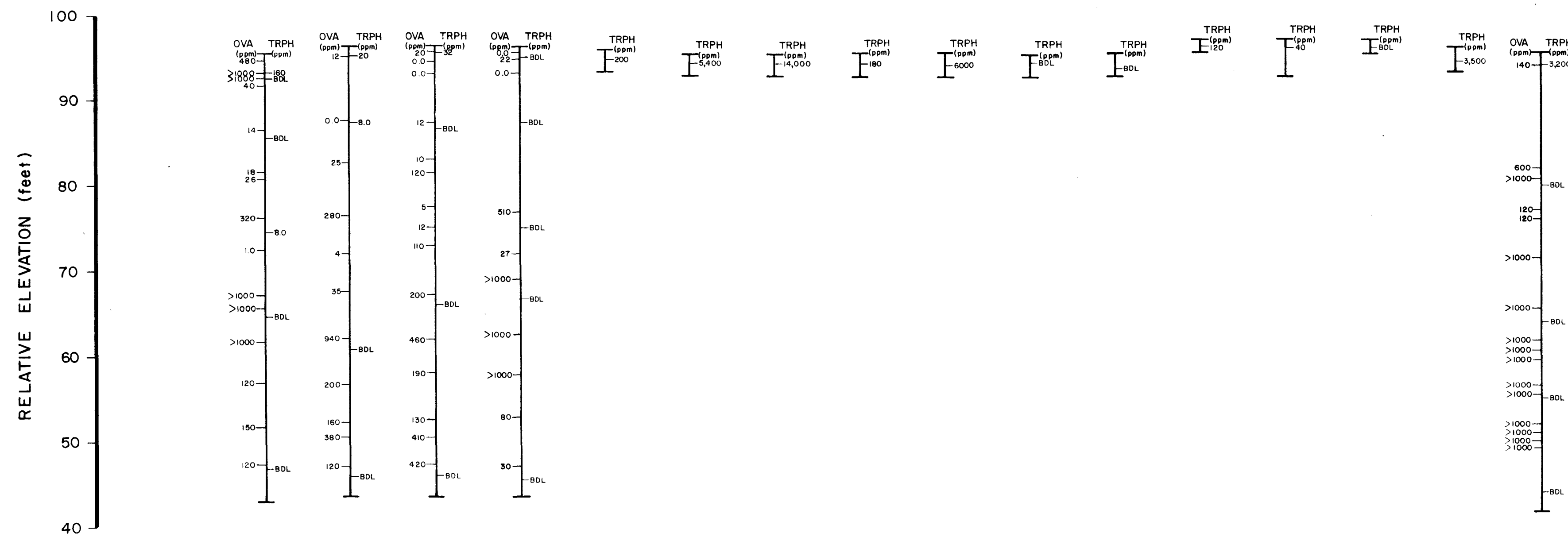
TRANSWESTERN PIPELINE COMPANY

Date 12/3/91
Rev 3/92

PLATE - I

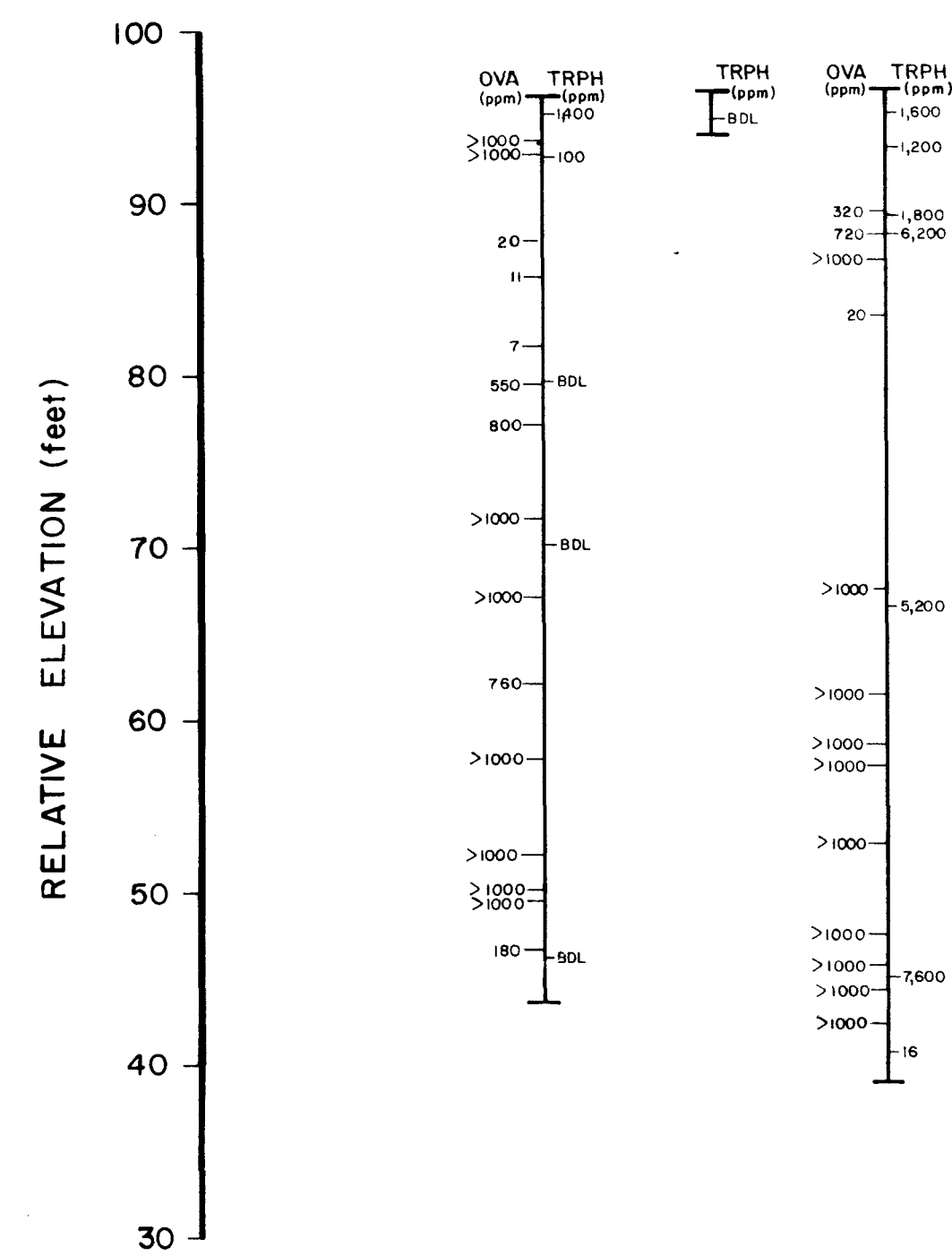
WASTE WATER COLLECTION AREA

BH-1 BH-2 BH-3 BH-4 BH-5 BH-6 BH-7 BH-8 BH-9 BH-10 BH-11 BH-15 BH-16 BH-17 BH-18 BH-21



PIPELINE LIQUIDS TANK

BH-12 BH-13 BH-14



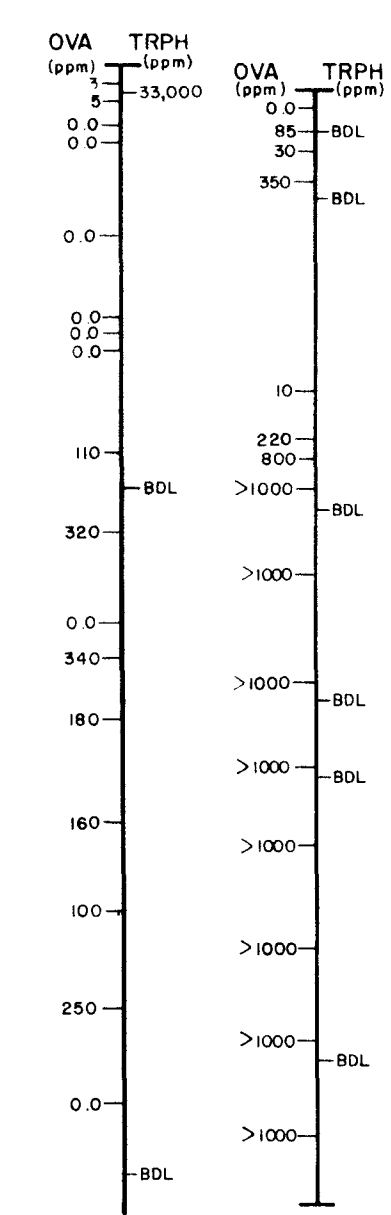
DRAIN PIT

BH-7



MONITOR WELLS

BH-19 BH-20



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MAR 22 1993

OIL CONSERVATION DIV
SANTA FE

METRIC
Corporation

BOREHOLE DATA

EUNICE GAS COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

TRANSWESTERN PIPELINE COMPANY

Date 3/25/92

PLATE-2