

**GW - 52**

# **REPORTS**

**YEAR(S):**

**1991**

SHALLOW SUBSURFACE INVESTIGATION  
AT ROSWELL COMPRESSOR STATION  
CHAVES COUNTY, NEW MEXICO

PREPARED FOR  
TRANSWESTERN PIPELINE COMPANY  
ROSWELL, NEW MEXICO

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OIL CONSERVATION DIV.  
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PREPARED BY  
METRIC CORPORATION  
ALBUQUERQUE, NEW MEXICO

OCTOBER 1991

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SHALLOW SUBSURFACE INVESTIGATION  
AT ROSWELL COMPRESSOR STATION  
CHAVES COUNTY, NEW MEXICO

Introduction

In July 1991, METRIC Corporation assisted Transwestern Pipeline Company in conducting comprehensive soil borings at its Roswell Compressor Station in order to assess the presence of organic constituents in three abandoned waste disposal pits.

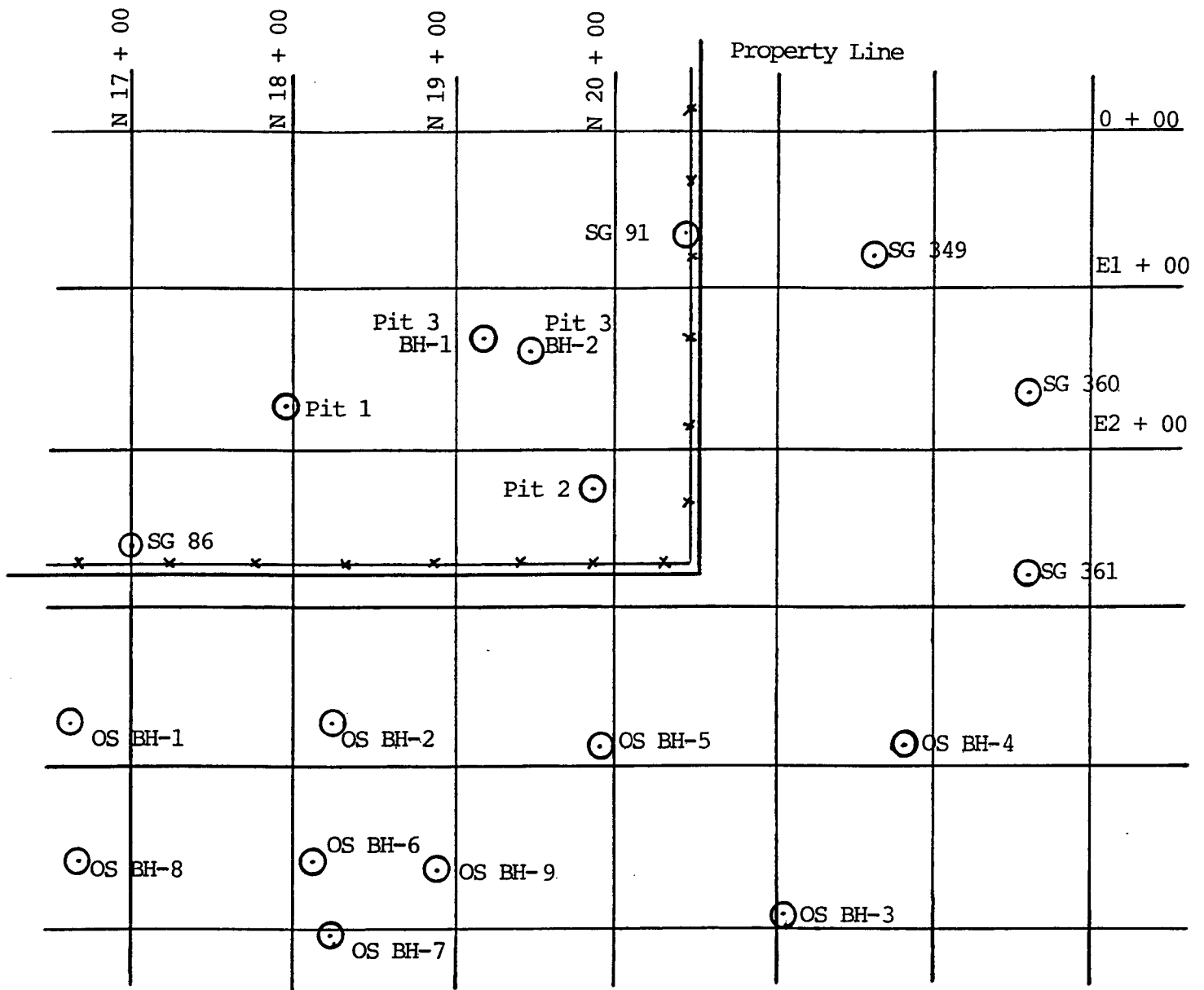
Additionally, this study was performed to determine the horizontal and vertical extent of the organic constituents identified. Results of the subsurface investigation are presented in this report.

The compressor station is located 5 miles north of Roswell, New Mexico. The investigation was conducted at the northeast corner of the station in the vicinity of the three abandoned waste disposal pits.

Eighteen borehole locations were planned in coordination with Transwestern Pipeline personnel, focusing on the vicinity of the disposal pit sites. Six boreholes were developed on site and twelve boreholes were developed off site to the north and east (FIGURE 1).

Borehole Sampling and Analytical Field Screening

Borehole drilling was provided 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 sampling borehole and potential cross contamination among the boreholes.



SCALE: 1" = 100'

FIGURE 1  
BOREHOLE LOCATIONS  
FOR SUBSURFACE INVESTIGATION  
ROSWELL COMPRESSOR STATION

Drilling was generally conducted to the depth of an underlying impermeable or red clay layer. Soil cores withdrawn using the continuous sampler were scanned with a portable organic vapor (OVA) in order to guide sample selection. Samples were collected in 8 oz. glass jars, placed on ice, accompanied with a properly completed chain of custody form, and shipped by Federal Express overnight delivery to Assaigai Laboratories in Albuquerque, New Mexico. Methods 8010 and 418.1 were performed for all samples to determine light and heavy hydrocarbon constituents. Method 8020 was performed at selected locations to determine the type of constituents. Analyses performed are indicated on TABLE 1 for boreholes sampled. Borehole sample logs are provided in APPENDIX A.

### Analytical Results

The analyses performed for the July 1991 sampling, as outlined in TABLE 1, are presented in TABLES 2, 3, and 4 for purgeable halocarbons (Method 8010), aromatic volatile organics (Method 8020), and total recoverable petroleum hydrocarbons (Method 418.1), respectively. Laboratory reports are provided in APPENDICES B and C.

Purgeable halocarbons were determined to be present within 30 feet of the surface at Pit 1, Pit 2, and SG 86 borehole locations (TABLE 2 and PLATE 1). Hits for 1,1,1-Trichloroethane are shown at Pit 1 for depth intervals of 1.8'-3.0', 9.2'-9.4', 13.5'-13.7', and 18.8'-19.0', and 26.8'-27.0' depth intervals for Pit 1. Chloroform and 1,1-Dichloroethane were also hit at Pit 1 depth interval of 13.5'-13.7'.

At Pit 2, 1,1,1-Trichloroethane and Tetrachloroethene were hit at the 18.7'-18.9' interval. These two constituents were also hit at the 13.5'-13.7' interval of SG 86. Only Tetrachloroethene was

hit at SG 86 depth interval of 18.7'-18.9'.

Low level concentrations of Tetrachloroethene were hit at boreholes OS BH-7 and OS BH-8 at depth intervals of 37.0'-37.2' and 33.9'-34.1', respectively. Chlorobenzene was also hit at the 33.9'-34.1' interval of OS BH-8.

Analysis results for aromatic volatile organic constituents indicate hits for Ethylbenzene and Xylenes in boreholes OS BH-7 and OS BH-8 at depth intervals of 37.0'-37.2' and 47.7'-39.9'.

Organic constituents hit as a result of Method 8010 and 8020 analyses were not continuous or contiguous throughout the area investigated.

For total recoverable petroleum hydrocarbons (TRPH), analytical results indicate concentrations >100 ppm at boreholes Pit 1, Pit 2, SG 86 and OS BH-9 (TABLE 4 and PLATE 1). At Pit 1, TRPH were detected for all sample intervals to a depth of 43.7'. Pit 2 hit TRPH in nearly all depth intervals to 57.8'. At SG 86, TRPH were hit at 13.5'-13.7', 18.7'-18.9', and 35.0'-35.2'. Finally, at OS BH-9, levels of TRPH >100 ppm were hit only at the 32.0'-32.5' depth interval.

### Investigation Results

Based on the July 1991 borehole data, flame ionization detector (OVA) and photoionization detector (PID) data, and analytical results of borehole sampling, the configuration of maximum

TABLE 1

## LABORATORY ANALYSES PERFORMED ON SUBSURFACE SOIL SAMPLES

SAMPLE NUMBER	PURGEABLE HALOCARBONS	AROMATIC VOLATILE ORGANICS	TOTAL RECOVERABLE PETROLEUM HYDROCARBONS
	8010	8020	418.1
Pit 1, 2.8'-3.0'	X		X
Pit 1, 9.2'-9.4'	X		X
Pit 1, 13.5'-13.7'	X		X
Pit 1, 18.8'-19.0'	X		X
Pit 1, 26.8'-27.0'	X		X
Pit 1, 30.6'-30.8'	X		X
Pit 1, 41.6'-41.8'	X	X	X
Pit 1, 43.5'-43.7'	X	X	X
Pit 2, sample 001	X		X
Pit 2, sample 002	X		X
Pit 2, 26.0'-26.2'	X		X
Pit 2, 29.1'-29.3'	X		X
Pit 2, 39.8'-39.9'	X		X
Pit 2, 44.1'-44.3'	X	X	X
Pit 2, 57.5'-57.8'	X		X
Pit 2, 69.9'-70.1'	X	X	X
Pit 3, BH-1, 30.7'-30.9'	X	X	X
Pit 3, BH-2, 25.0'-25.2'	X	X	X
SG 86, 13.5'-13.7'	X		X
SG 86, 18.7'-18.9'	X		X
SG 86, 24.9'-25.1'	X		X
SG 86, 25.0'-35.2'	X		X
SG 86, 35.0'-35.2'	X		X
SG 86, 40.5'-40.7'	X	X	X

TABLE 1 (Continued)

## LABORATORY ANALYSES PERFORMED ON SUBSURFACE SOIL SAMPLES

SAMPLE NUMBER	PURGEABLE HALOCARBONS	AROMATIC VOLATILE ORGANICS	TOTAL RECOVERABLE PETROLEUM HYDROCARBONS
	8010	8020	418.1
SG 91, 28.6'-28.8'	X	X	X
SG 349, 0.0'-1.8'	X		X
SG 349, 2.9'-4.6'	X		X
SG 349, 9.0'-10.0'	X		X
SG 349, 14.0'-14.8'	X		X
SG 349, 20.3'-21.3'	X		X
SG 349, 25.3'-26.3'	X		X
SG 349, 29.7'-30.4'	X	X	X
SG 360, 0.0'-2.5'	X		X
SG 360, 4.0'-5.0'	X		X
SG 360, 9.0'-9.9'	X		X
SG 360, 14.0'-14.7'	X		X
SG 360, 19.0'-20.0'	X		X
SG 360, 24.0'-25.0'	X		X
SG 360, 29.0'-29.4'	X		X
SG 361, 0.0'-2.5'	X		X
SG 361, 4.0'-5.0'	X		X
SG 361, 9.0'-10.0'	X		X
SG 361, 16.0'-16.4'	X		X
SG 361, 19.5'-19.8'	X		X
SG 361, 24.0'-25.0'	X		X
SG 361, 38.9'-39.3'	X		X
OS BH-1, 18.9'-19.1'	X		X
OS BH-1, 34.2'-34.5'	X		X
OS BH-2, 9.9'-10.1'	X		X
OS BH-2, 22.5'-22.6'	X		X
OS BH-2, 31.1'-31.3'	X		X

TABLE 1 (Continued)

## LABORATORY ANALYSES PERFORMED ON SUBSURFACE SOIL SAMPLES

SAMPLE NUMBER	PURGEABLE HALOCARBONS	AROMATIC VOLATILE ORGANICS	TOTAL RECOVERABLE PETROLEUM HYDROCARBONS
	8010	8020	418.1
OS BH-2, 41.8'-42.0'	X		X
OS BH-2, 55.2'-55.4'	X		X
OS BH-2, 69.0'-69.2'	X		X
OS BH-3, 21.0'-21.2'	X	X	X
OS BH-3, 44.1'-44.3'	X		X
OS BH-3, 54.7'-55.0'	X	X	X
OS BH-4, 27.5'-27.7'	X	X	X
OS BH-5, 14.0'-14.2'	X		X
OS BH-5, 19.6'-19.9'	X		X
OS BH-5, 23.4'-23.6'	X	X	X
OS BH-6, 13.6'-13.8'	X		X
OS BH-6, 47.0'-47.2'	X		X
OS BH-6, 52.6'-52.8'	X		X
OS BH-6, 70.0'-71.0'	X	X	X
OS BH-7, 22.1'-22.3'	X	X	X
OS BH-7, 33.5'-33.7'	X		X
OS BH-7, 37.0'-37.2'	X	X	X
OS BH-8, 4.6'-4.9'	X		X
OS BH-8, 33.9'-34.1'	X		X
OS BH-8, 49.7'-49.9'	X	X	X

TABLE 1 (Continued)

## LABORATORY ANALYSES PERFORMED ON SUBSURFACE SOIL SAMPLES

SAMPLE NUMBER	PURGEABLE HALOCARBONS	AROMATIC VOLATILE ORGANICS	TOTAL RECOVERABLE PETROLEUM HYDROCARBONS
	8010	8020	418.1
OS BH-9, 4.5'-4.9'	X		X
OS BH-9, 32.0'-32.5'	X		X
OS BH-9, 49.5'-49.7'	X	X	X



TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR PURGEABLE HALOCARBON OCCURRENCE  
AT ROSWELL COMPRESSOR STATION

PARAMETER	SAMPLE NUMBER										
	Pit 1 1.8'-3.0'	Pit 1 9.2'-9.4'	Pit 1 13.5'-13.7'	Pit 1 18.8'-19.0'	Pit 1 26.8'-27.0'	Pit 1 30.6'-30.8'	Pit 1 41.6'-41.8'	Pit 1 43.5'-43.7'	Pit 2 001	Pit 2 002 (18.7'-18.9')	Pit 2 26.0'-26.2'

Purgeable Halocarbon  
Compounds (mg/kg)  
Method 8010

1,1,1-Trichloroethane	3.2	19	18	0.33	BDL	BDL	BDL	BDL	BDL	0.37	BDL
Tetrachloroethene	BDL	0.26	0.33	0.87	0.16	BDL	BDL	BDL	BDL	0.65	BDL
Chloroform	BDL	BDL	0.20	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1-Dichloroethane	BDL	BDL	0.59	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

PARAMETER	SAMPLE NUMBER									
	Pit 2 29.1'-29.3'	Pit 2 39.8'-39.9'	Pit 2 44.1'-44.3'	Pit 2 57.5'-57.8'	Pit 2 69.0'-70.1'	Pit 3, BH-1 30.7'-30.9'	Pit 3, BH-2 25.0'-25.2'	SG 86 13.5'-13.7'	SG 86 18.7'-18.9'	

Purgeable Halocarbon  
Compounds (mg/kg)  
Method 8010

1,1,1-Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.24	BDL
Tetrachloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.9	0.23

TABLE 2 (Continued)

SUMMARY OF ANALYTICAL RESULTS FOR PURGEABLE HALOCARBON OCCURRENCE  
AT ROSWELL COMPRESSOR STATION

PARAMETER	SAMPLE NUMBER									
	SG 86	SG 86	SG 86	SG 91	SG 349	SG 349	SG 349	SG 349	SG 349	SG 349
	24.9'-25.1'	35.0'-35.2'	40.5'-40.7'	28.6'-28.8'	0.0'-1.8'	2.9'-4.6'	9.0'-10.0'	14.0'-14.8'	20.3'-21.3'	5.3'-26.3'

Purgeable Halocarbon  
Compounds (mg/kg)  
Method 8010

BDL BDL BDL BDL BDL BDL BDL BDL BDL BDL

PARAMETER	SAMPLE NUMBER								
	SG 349	SG 360	SG 360	SG 360	SG 360	SG 360	SG 360	SG 360	SG 361
	29.7'-30.4'	0.0'-2.5'	4.0'-5.0'	9.0'-9.9'	14.0'-14.7'	19.0'-20.0'	24.0'-25.0'	29.0'-29.4'	0.0'-2.5'

Purgeable Halocarbon  
Compounds (mg/kg)  
Method 8010

BDL BDL BDL BDL BDL BDL BDL BDL BDL BDL

PARAMETER	SAMPLE NUMBER									
	SG 361	SG 361	SG 361	SG 361	SG 361	SG 361	OS BH-1	OS BH-1	OS BH-2	OS BH-2
	4.0'-5.0'	9.0'-10.0'	16.0'-16.4'	19.5'-19.8'	24.0'-25.0'	38.0'-39.3'	18.9'-19.1'	34.3'-34.5'	9.9'-10.1'	22.5'-22.6'

Purgeable Halocarbon  
Compounds (mg/kg)  
Method 8010

BDL BDL BDL BDL BDL BDL BDL BDL BDL BDL

TABLE 2 (Continued)

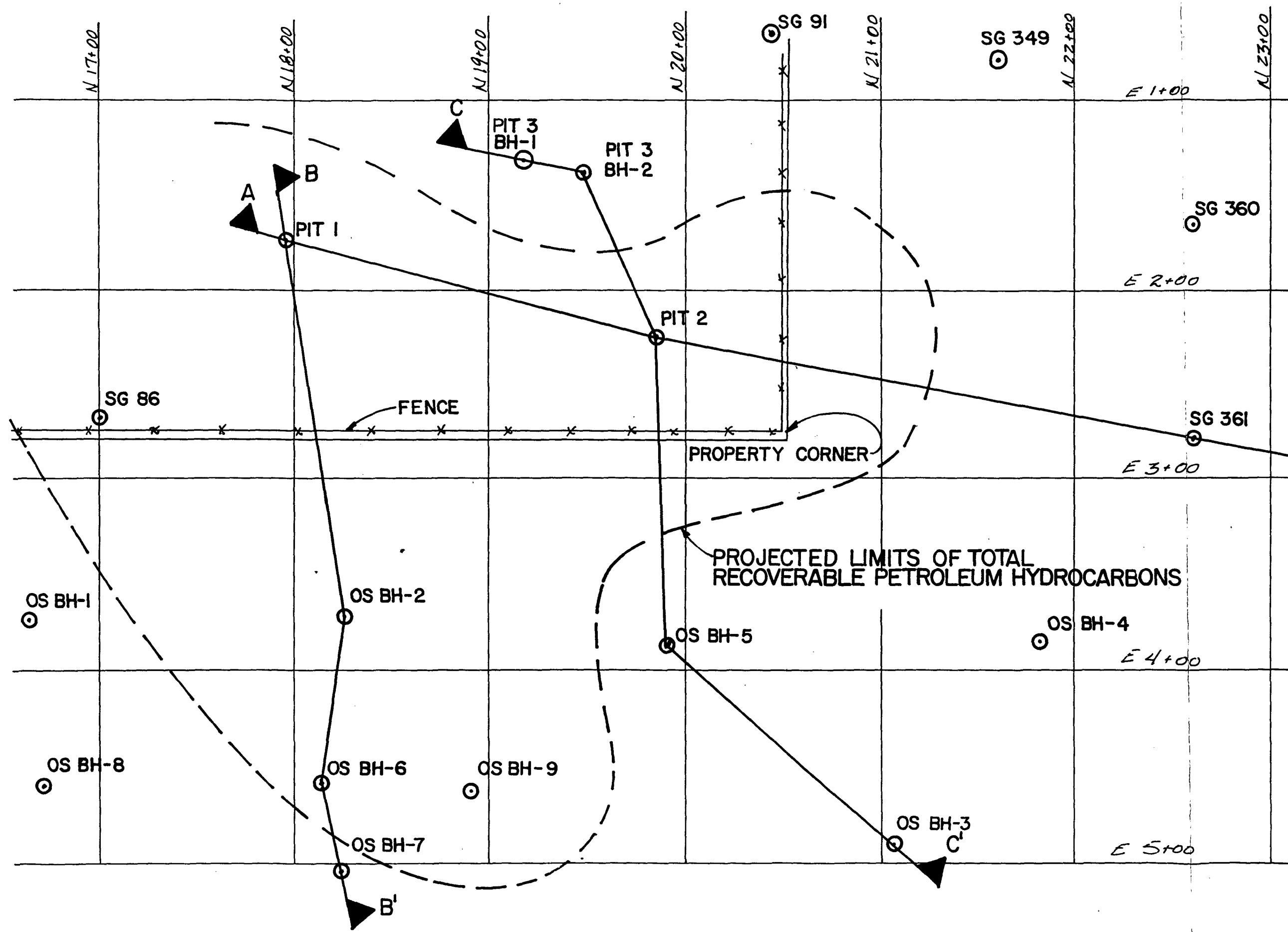
SUMMARY OF ANALYTICAL RESULTS FOR PURGEABLE HALOCARBON OCCURRENCE  
AT ROSWELL COMPRESSOR STATION

PARAMETER	SAMPLE NUMBER							
	OS BH-2 31.1'-31.3'	OS BH-2 41.8'-42.0'	OS BH-2 55.2'-55.4'	OS BH-2 69.0'-69.2'	OS BH-3 21.0'-21.2'	OS BH-3 44.1'-44.3'	OS BH-3 54.7'-55.0'	OS BH-4 27.5'-27.7'
<u>Purgeable Halocarbon</u> <u>Compounds (mg/kg)</u> <u>Method 8010</u>	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

PARAMETER	SAMPLE NUMBER								
	OS BH-5 14.0'-14.2'	OS BH-5 19.6'-19.9'	OS BH-5 23.4'-23.6'	OS BH-6 13.6'-13.8'	OS BH-6 47.0'-47.2'	OS BH-6 52.6'-52.8'	OS BH-6 70.0'-71.0'	OS BH-7 22.1'-22.3'	OS BH-7 33.5'-33.7'
<u>Purgeable Halocarbon</u> <u>Compounds (mg/kg)</u> <u>Method 8010</u>	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

PARAMETER	SAMPLE NUMBER						
	OS BH-7 37.0'-37.2'	OS BH-8 4.6'-4.9'	OS BH-8 33.9'-34.1'	OS BH-8 49.7'-49.9'	OS BH-9 4.5'-4.9'	OS BH-9 32.0'-32.5'	OS BH-9 49.5'-49.7'
<u>Purgeable Halocarbon</u> <u>Compounds (mg/kg)</u> <u>Method 8010</u>							
Tetrachloroethene	0.17	BDL	0.16	BDL	BDL	BDL	BDL
Clorobenzene	BDL	BDL	0.12	BDL	BDL	BDL	BDL

BDL = below detection limit of 0.1 mg/kg.

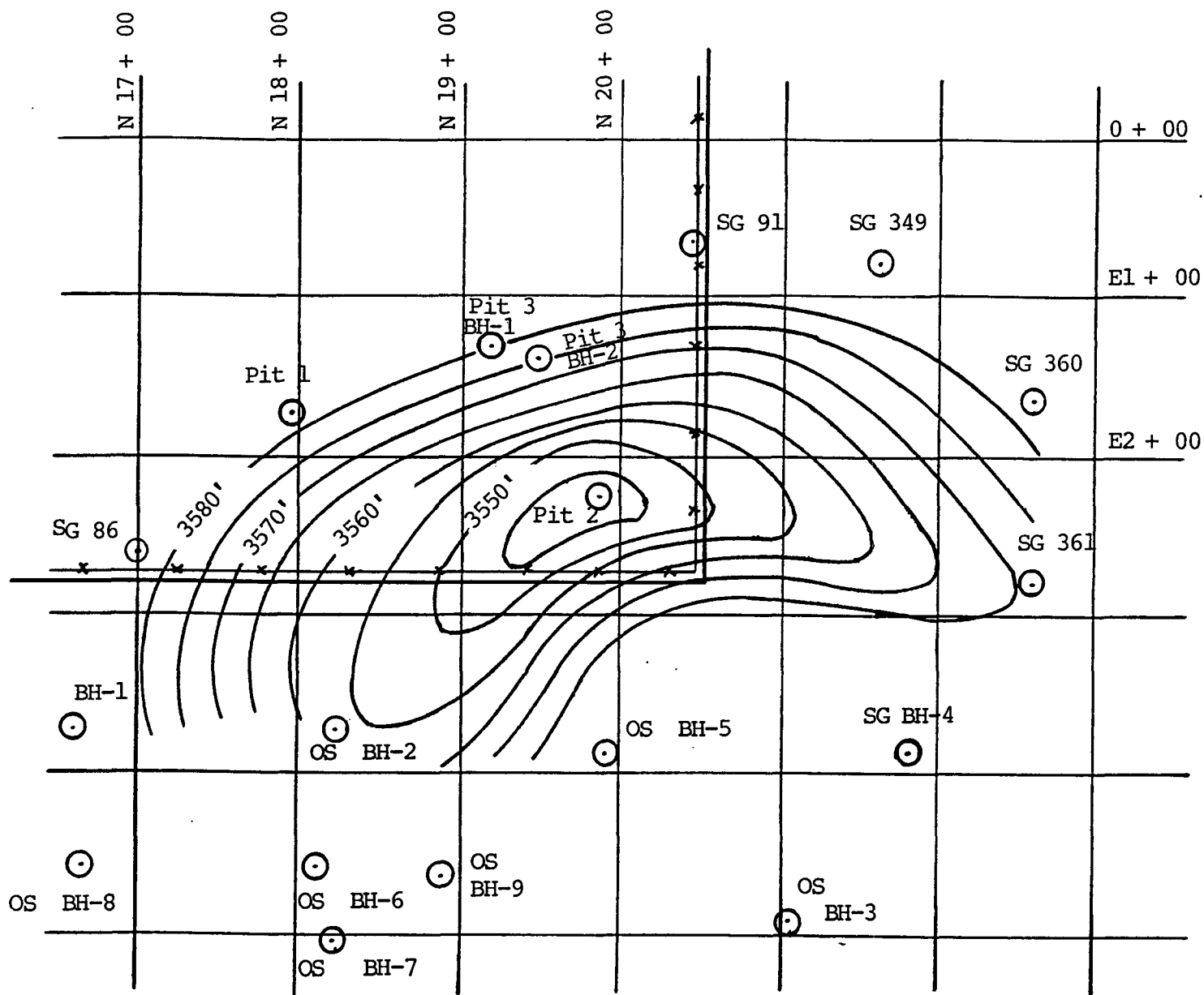


1"=50'

**LEGEND**

⊙ SOIL SAMPLE BORING

SOIL SAMPLE SITES	
ROSWELL COMPRESSOR STATION	
TRANSWESTERN PIPELINE COMPANY	
10-4-91	PLATE 1



SCALE: 1" = 100'

FIGURE 2  
CONTOURS OF TOP SURFACE OF RED CLAY  
ROSWELL COMPRESOR STATION

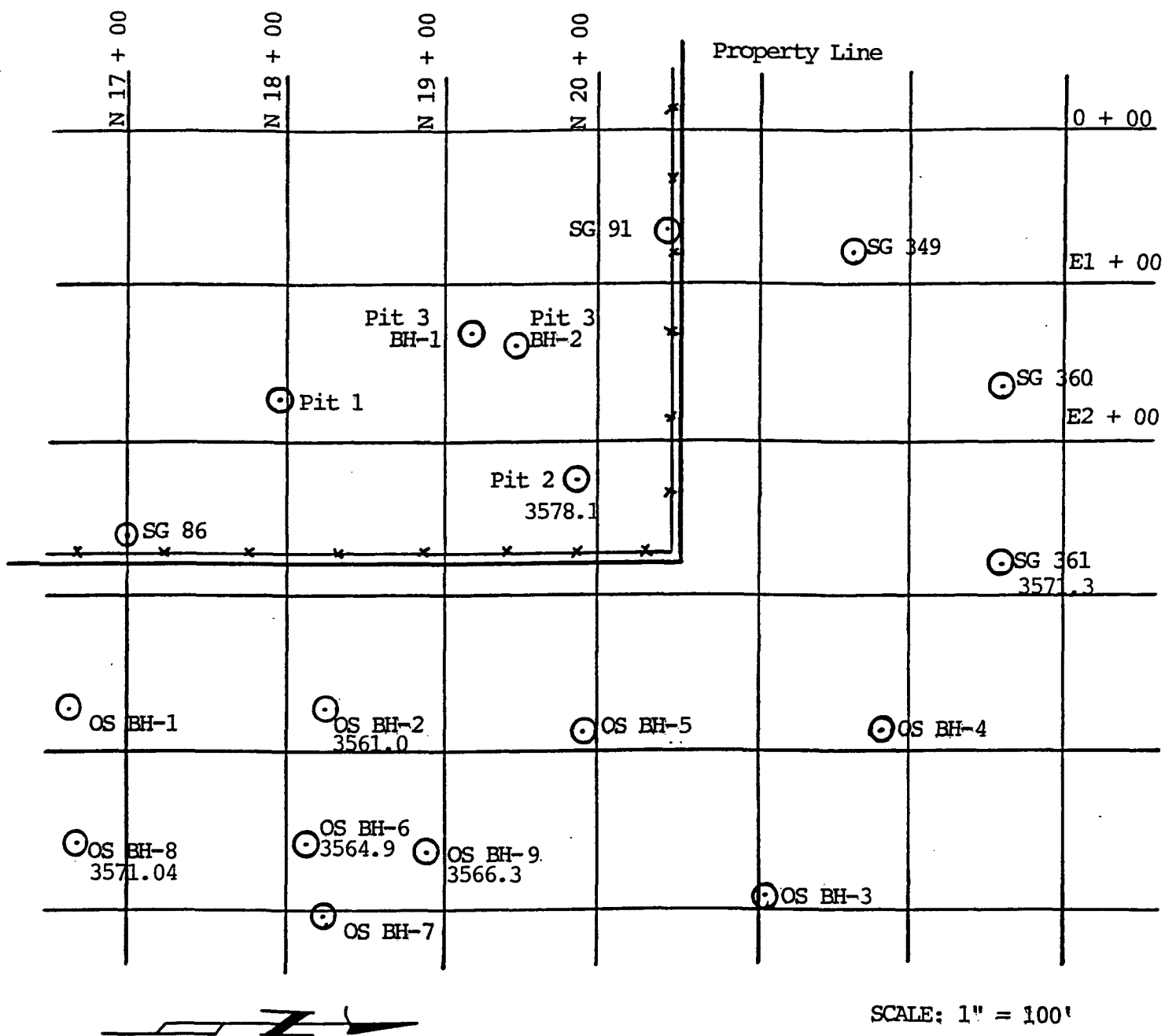


FIGURE 3

ELEVATIONS OF PERCHED GROUNDWATER  
 ROSWELL COMPRESSOR STATION

horizontal extent of the plume of total recoverable petroleum hydrocarbon (TRPH) is represented in PLATE 1. As borehole data are not available south and southwest of Pit 1 and SG 86, the estimation of horizontal extent of the plume is not complete. Inclusion of OS BH-2 and OS BH-6 within the plume is based on OVA readings of > 1000 ppm.

PLATE 2, 3, and 4 present cross sections A-A', B-B', and C-C', respectively, representing estimated subsurface conditions away from the contaminant sources, in generally the eastward and northward directions. Borehole plots provide boring elevations, OVA readings in ppm for volatile constituents detected during continuous sample recovery, and analytical results for total recoverable petroleum hydrocarbons. The data plots depict the vertical concentration.

Based on borehole sample log description (APPENDIX A), the top surface of the impermeable red clay is represented in FIGURE 2 and plotted in the cross sections. The surface appears as a depression open to the southeast. All TRPH is confined to above the clay surface.

Occurrence of perched groundwater was observed during the borehole drilling and sampling operation. According to Transwestern personnel, the local water table is at about 120 feet; thus below the red clay bed. FIGURE 3 indicates the elevations of water levels for boreholes in which groundwater was encountered during drilling. The elevations depicted in FIGURE 3 are based on water levels sounded from ground level in Pit 2, SG 361, OS BH-2, OS BH-6, OS BH-8 and OS BH-9. This perched water surface is also represented in the cross sections of Plates 2 through 4 as it relates to the red clay surface and the estimated zone for TRPH.

TABLE 4 (Continued)

SUMMARY OF ANALYTICAL RESULTS FOR  
TOTAL RECOVERABLE PETROLEUM HYDROCARBON OCCURRENCE  
AT ROSWELL COMPRESSOR STATION

PARAMETER	SAMPLE NUMBER							
	OS BH-3 44.1'-44.3'	OS BH-3 54.8'-55.0'	OS BH-4 27.5'-27.2'	OS BH-5 14.0'-14.2'	OS BH-5 19.6'-19.9'	OS BH-5 23.4'-23.6'	OS BH-6 13.6'-13.8'	OS BH-6 47.0'-47.2'
<u>Total Recoverable Petroleum Hydrocarbons (mg/kg) Method 418.1</u>	16	16	BDL	BDL	16	12	12	BDL

PARAMETER	SAMPLE NUMBER						
	OS BH-6 52.6'-52.8'	OS BH-6 70.0'-71.0'	OS BH-7 22.1'-22.3'	OS BH-7 33.5'-33.7'	OS BH-7 37.0'-37.2'	OS BH-8 4.6'-4.9'	OS BH-8 33.9'-34.1'
<u>Total Recoverable Petroleum Hydrocarbons (mg/kg) Method 418.1</u>	BDL	BDL	BDL	BDL	12	12	BDL

PARAMETER	SAMPLE NUMBER			
	OS BH-8 49.7'-49.9'	OS BH-9 4.5'-4.9'	OS BH-9 32.0'-32.5'	OS BH-9 47.5'-49.7'
<u>Total Recoverable Petroleum Hydrocarbons (mg/kg) Method 418.1</u>	12	8	150	8

BDL = below detection limit of 5.0 mg/kg.



TABLE 3

SUMMARY OF ANALYTICAL RESULTS FOR  
AROMATIC VOLATILE ORGANIC COMPOUND OCCURRENCE  
AT ROSWELL COMPRESSOR STATION

PARAMETER	SAMPLE NUMBER								
	Pit 1 41.6'-41.8'	Pit 1 43.5'-43.7'	Pit 2 44.1'-44.3'	Pit 2 69.9'-70.1'	Pit 3, BH-1 30.7'-30.9'	Pit 3, BH-2 25.0'-25.2'	SG 86 40.5'-40.7'	SG 91 28.6'-28.8'	SG 349 29.7'-30.4'
<u>Aromatic Volatile Organic Compounds</u> (mg/kg) Method 8020	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

PARAMETER	SAMPLE NUMBER								
	OS BH-3 21.0'-21.2'	OS BH-3 54.7'-55.0'	OS BH-4 27.5'-27.7'	OS BH-5 23.4'-23.6	OS BH-6 70.0'-71.0'	OS BH-7 22.1'-22.3'	OS BH-7 37.0'-37.2'	OS BH-8 47.7'-49.9'	OS BH-9 49.5'-49.7'
<u>Aromatic Volatile Organic Compounds</u> (mg/kg) Method 8020									
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	0.19	0.14	BDL
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	0.44	0.3	BDL

BDL = below detection limit of 0.1 mg/kg.

TABLE 4  
SUMMARY OF ANALYTICAL RESULTS FOR  
TOTAL RECOVERABLE PETROLEUM HYDROCARBON OCCURRENCE  
AT ROSWELL COMPRESSOR STATION

PARAMETER	SAMPLE NUMBER									
	Pit 1 2.8'-3.0'	Pit 1 9.2'-9.4'	Pit 1 13.5'-13.7'	Pit 1 18.8'-19.0'	Pit 1 26.8'-27.0'	Pit 1 30.6'-30.8'	Pit 1 41.6'-41.8'	Pit 1 43.5'-43.7'	Pit 2 001	Pit 2 002 (18.7'-18.9')
<u>Total Recoverable Petroleum Hydrocarbons (mg/kg) Method 418.1</u>	25,000	39,000	55,000	20,000	11,000	16	16	56	BDL	13,000

PARAMETER	SAMPLE NUMBER								
	Pit 2 26.0'-26.2'	Pit 2 29.1'-29.3'	Pit 2 39.8'-39.9'	Pit 2 44.1'-44.3'	Pit 2 57.5'-57.8'	Pit 2 69.9'-70.1'	Pit 3, BH-1 30.7'-30.9'	Pit 3, BH-2 25.0'-25.2'	
<u>Total Recoverable Petroleum Hydrocarbons (mg/kg) Method 418.1</u>	170	BDL	2600	44	250	BDL	BDL	BDL	

PARAMETER	SAMPLE NUMBER									
	SG 86 13.5'-13.7'	SG 86 18.7'-18.9'	SG 86 24.9'-25.1'	SG 86 35.0'-35.2'	SG 86 40.5'-40.7'	SG 91 28.6'-28.8'	SG 349 0.0'-1.8'	SG 349 2.9'-4.6'	SG 349 9.0'-10.0'	SG 349 14.0'-14.8'
<u>Total Recoverable Petroleum Hydrocarbons (mg/kg) Method 418.1</u>	18,000	5200	BDL	8.0	BDL	BDL	BDL	BDL	BDL	BDL

TABLE 4 (Continued)  
SUMMARY OF ANALYTICAL RESULTS FOR  
TOTAL RECOVERABLE PETROLEUM HYDROCARBON OCCURRENCE  
AT ROSWELL COMPRESSOR STATION

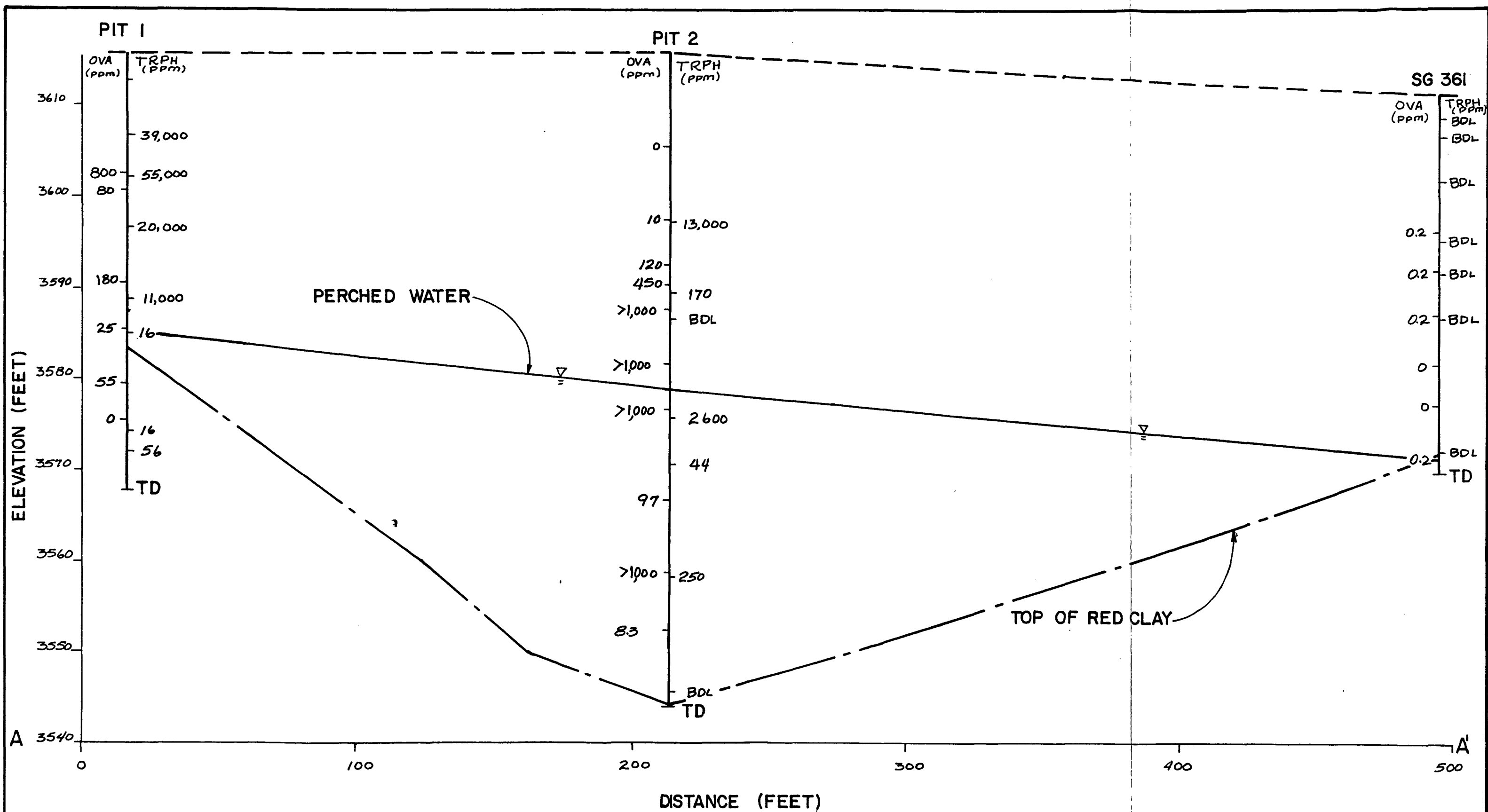
PARAMETER	SAMPLE NUMBER								
	SG 349 20.3'-21.3'	SG 349 25.3'-26.3'	SG 349 29.7'-30.4'	SG 349 0.0'-2.5'	SG 360 4.0'-5.0'	SG 360 9.0'-9.9'	SG 360 14.0'-14.7'	SG 360 19.0'-20.0'	SG 360 24.0'-25.0'
<u>Total Recoverable Petroleum Hydrocarbons (mg/kg) Method 418.1</u>	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

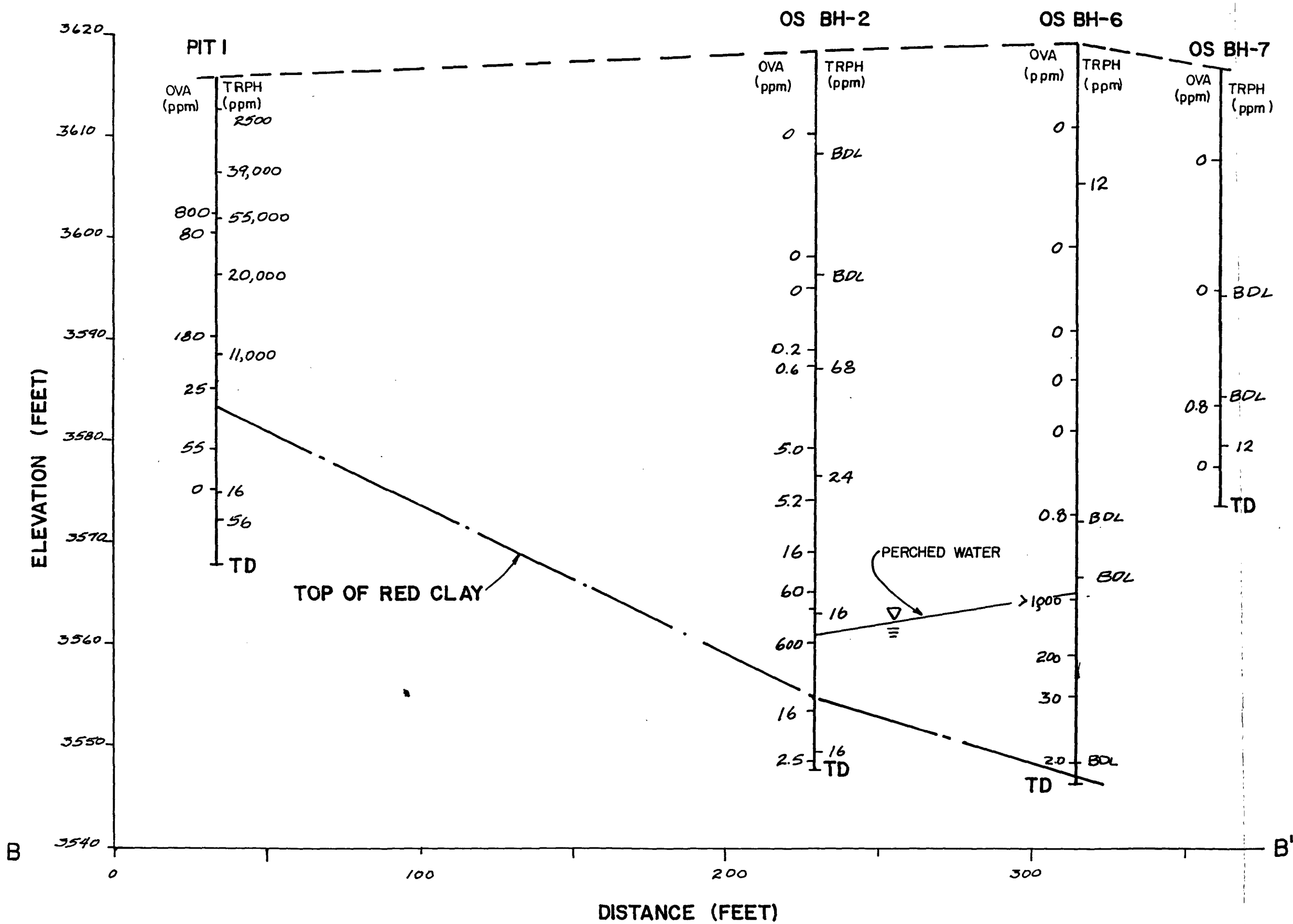
  

PARAMETER	SAMPLE NUMBER								
	SG 360 29.0'-29.4'	SG 361 0.0'-2.5'	SG 361 4.0'-5.0'	SG 361 9.0'-10.0'	SG 361 16.0'-16.4'	SG 361 19.5'-19.8'	SG 361 24.0'-25.0'	SG 361 38.9'-39.3'	OS BH-1 18.9'-19.1'
<u>Total Recoverable Petroleum Hydrocarbons (mg/kg) Method 418.1</u>	2.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	12

PARAMETER	SAMPLE NUMBER							
	OS BH-1 34.3'-34.5'	OS BH-2 9.9'-10.1'	OS BH-2 22.5'-22.6'	OS BH-2 31.1'-31.3'	OS BH-2 41.8'-42.0'	OS BH-2 55.2'-55.4'	OS BH-2 69.0'-69.2'	OS BH-3 21.0'-21.2'
<u>Total Recoverable Petroleum Hydrocarbons (mg/kg) Method 418.1</u>	BDL	BDL	BDL	68	24	16	16	BDL







**APPENDIX A**  
**BOREHOLE SAMPLE LOGS**

SAMPLE LOG

Well Number Pit 1 Well Location N17 + 98 El + 76.6  
Well Owner Transwestern Pipeline Company  
Sample Logger D. Briggs, METRIC Corporation  
Driller METRIC Corporation  
Drilling Medium Hollow Stem Augers  
  
Date of Completion 7-16-91 Ground Elev. 3615.72

Depth (feet)	Thickness (feet)	Stratigraphic Description
0.0 - 7.8	7.8	Brown clay with gravels
7.8 - 8.1	0.3	Greyish tan sand
8.1 - 9.4	1.3	Black oily sand with gravel
9.4 - 12.8	3.4	No recovery
12.8 - 13.7	0.9	Black oily sand with gravels
13.7 - 14.3	0.6	Brown clay
14.3 - 14.8	0.5	Black silty sand
14.8 - 16.3	1.5	Black sand with small gravels
16.3 - 17.8	1.5	No recovery
17.8 - 19.0	1.2	Brownish grey sand with gravels
19.0 - 21.4	2.4	Grey sand with heavy gravels
21.4 - 22.8	1.4	No recovery
22.8 - 23.5	0.7	Grey sand with gravels
23.5 - 27.0	3.5	White sand with gravels
27.0 - 27.8	0.8	No recovery
27.8 - 28.5	0.7	Grey sand with gravels
28.5 - 30.6	2.1	Grey small clean gravel
30.6 - 32.8	2.2	Reddish clay
32.8 - 37.8	5.0	Red clay with black streaks
37.8 - 47.8	10.0	Red clay



SAMPLE LOG

Well Number Pit 2 Well Location N17 + 98 El + 76.6  
Well Owner Transwestern Pipeline Company  
Sample Logger D. Briggs, METRIC Corporation  
Driller METRIC Corporation  
Drilling Medium Hollow Stem Auger  
  
Date of Completion 7-17-91 Ground Elev. 3615.72

Depth (feet)	Thickness (feet)	Stratigraphic Description
0.0 - 1.8	1.8	Tan sandy gravel fill
1.8 - 2.9	1.1	No recovery
2.9 - 3.5	0.6	Tan sandy gravel fill
3.5 - 6.1	2.6	White caliche with gravels
6.1 - 7.9	1.8	No recovery
7.9 - 10.1	2.2	Tan sand with gravels
10.1 - 10.5	0.4	Reddish caliche
10.5 - 12.9	2.4	No recovery
12.9 - 13.5	0.6	Reddish caliche
13.5 - 13.9	0.4	Red clay
13.9 - 14.3	0.4	Tan sandy gravel
14.3 - 17.9	3.6	No recovery
17.9 - 18.1	0.2	Tan sandy gravel
18.1 - 18.9	0.8	Tan sand
18.9 - 19.0	0.1	Tan sandy gravel
19.0 - 22.9	3.9	No recovery
22.9 - 24.4	1.5	Tan sandy gravel
24.4 - 26.4	2.0	Grey sandy gravel
26.4 - 27.9	1.5	No recovery
27.9 - 29.3	1.4	Tan medium sand
29.3 - 31.1	1.8	Grey sandy gravel

SAMPLE LOG

Continued

Well Number Pit 2 Well Location N17 + 98 E1 + 76.6

(Continued from Previous Page)

Depth (feet)	Thickness (feet)	Stratigraphic Description
31.1 - 32.9	1.8	No recovery
32.9 - 36.6*	3.7	Grey sandy gravel
36.6 - 37.9	1.3	No recovery
37.9 - 40.1	2.2	Grey sand with pebbles
40.1 - 42.9	2.8	No recovery
42.9 - 50.5	7.6	Red sandy clay
50.5 - 52.9	2.4	No recovery
52.9 - 56.3	3.4	Red sandy clay
56.3 - 57.9	1.6	Grey/black medium sand
57.9 - 62.6	4.7	Red sandy clay
62.6 - 64.1	1.5	Sandy gravel
64.1 - 67.9	3.8	Red clay
67.9 - 71.6	3.7	Red clay with calcium sulfate lenses

\* Groundwater encountered at 33.7'

SAMPLE LOG

Well Number Pit 3 BH-1 Well Location N19 + 18 El + 31.5  
Well Owner Transwestern Pipeline Company  
Sample Logger D. Briggs, METRIC Corporation  
Driller METRIC Corporation  
Drilling Medium Hollow Stem Auger  
  
Date of Completion 7-18-91 Ground Elev. 3615.71

Depth (feet)	Thickness (feet)	Stratigraphic Description
0.0 - 1.6	1.6	Brown sand with gravel
1.6 - 2.4	0.8	Tan sand with gravel
2.4 - 2.8	0.4	No recovery
2.8 - 5.5	2.7	Tan sand with gravel
5.5 - 7.8	2.3	No recovery
7.8 - 11.0	3.2	Tan sand with gravel
11.0 - 12.8	1.8	No recovery
12.8 - 14.9	2.1	Tan sand with gravel
14.9 - 17.8	2.9	No recovery
17.8 - 20.2	2.4	Tan sand with gravel
20.2 - 22.8	2.6	No recovery
22.8 - 23.0	0.2	Tan sand with gravel
23.0 - 30.7	7.7	No recovery
30.7 - 32.8	2.1	White caliche with gravel

SAMPLE LOG

Well Number Pit 3 BH-2 Well Location N19 + 48 E1 + 38.5  
Well Owner Transwestern Pipeline Company  
Sample Logger D. Briggs, METRIC Corporation  
Driller METRIC Corporation  
Drilling Medium Hollow Stem Auger  
  
Date of Completion 7-18-91 Ground Elev. 3615.68

Depth (feet)	Thickness (feet)	Stratigraphic Description
0.0 - 2.3	2.3	Brown sand with gravel
2.3 - 6.8	4.5	Tan sand with gravel
6.8 - 7.6	0.8	No recovery
7.6 - 9.6	2.0	Tan sand
9.6 - 10.9	1.3	Tan sand with gravel
10.9 - 17.6	6.7	No recovery
17.6 - 19.2	1.6	Tan sand with gravel
19.2 - 22.6	3.4	No recovery
22.6 - 24.4	1.8	Tan sand with gravel
24.4 - 25.4	1.0	White sand with gravel and dark streaks
25.4 - 27.6	2.2	No recovery
27.6 - 29.5	1.9	White sand with gravel; caliche at bottom

# METRIC Corporation

## SAMPLE LOG

Well Number SG-86 Well Location N17 + 10 E2 + 68.2  
Well Owner Transwestern Pipeline Company  
Sample Logger D. Briggs, METRIC Corporation  
Driller METRIC Corporation  
Drilling Medium Hollow Stem Auger  
  
Date of Completion 7-22-91 Ground Elev. 3613.52

Depth (feet)	Thickness (feet)	Stratigraphic Description
0.0 - 1.1	1.1	Brown silty sand
1.1 - 1.8	0.2	White caliche with gravel
1.8 - 2.9	1.1	No recovery
2.9 - 4.8	1.9	Tan sand with gravel
4.8 - 7.9	3.1	No recovery
7.9 - 8.9	1.0	Tan sand with gravel
8.9 - 12.9	4.0	No recovery
12.9 - 13.3	0.4	Tan sand with gravel
13.3 - 15.2	1.9	Grey sand with gravel
15.2 - 17.9	2.7	No recovery
17.9 - 21.1	3.2	Tan sand with gravel
21.1 - 22.9	1.8	No recovery
22.9 - 23.9	1.0	Grey sand with gravel
23.9 - 25.2	1.3	Tan sand with gravel
25.2 - 27.9	2.7	No recovery
27.9 - 29.4	1.5	Tan sand with large gravel
29.4 - 32.9	3.5	No recovery
32.9 - 33.6	0.7	Grey sand with gravel
33.6 - 35.9	2.3	Red clay with dark lenses
35.9 - 37.9	2.0	No recovery
37.9 - 40.7	2.8	Red clay

SAMPLE LOG

Well Number SG 91 Well Location N20 + 53.2 EO + 66.5  
Well Owner Transwestern Pipeline Company  
Sample Logger D. Briggs, METRIC Corporation  
Driller METRIC Corporation  
Drilling Medium Hollow Stem Auger  
  
Date of Completion 7-22-91 Ground Elev. 3612.28

Depth (feet)	Thickness (feet)	Stratigraphic Description
0.0 - 0.9	0.9	Brown silty sand with gravel
0.9 - 1.5	0.6	White sand with gravel
1.5 - 3.0	1.5	No recovery
3.0 - 6.0	3.0	Tan sand with gravel
6.0 - 8.0	2.0	No recovery
8.0 - 11.0	3.0	Tan sand with gravel
11.0 - 13.0	2.0	No recovery
13.0 - 14.3	1.3	Tan sand with gravel
14.3 - 17.0	2.7	Tan sand with gravel mixed with caliche
17.0 - 18.0	1.0	No recovery
18.0 - 18.8	0.8	Tan sand with gravel
18.8 - 21.5	2.7	Tan sand with gravel mixed with caliche
21.5 - 23.0	1.5	No recovery
23.0 - 26.1	3.1	Tan sand with gravel mixed with caliche
26.1 - 28.0	1.9	No recovery
28.0 - 28.2	0.2	Tan sand with gravel
28.2 - 33.0	4.8	Red clay

# METRIC Corporation

## SAMPLE LOG

Well Number SG-349 Well Location N21 + 60.2 E0 + 79.0  
Well Owner Transwestern Pipeline Company  
Sample Logger D. Briggs, METRIC Corporation  
Driller METRIC Corporation  
Drilling Medium Hollow Stem Auger  
  
Date of Completion 7-25-91 Ground Elev. 3615.56

Depth (feet)	Thickness (feet)	Stratigraphic Description
0.0 - 1.2	1.2	Brown sandy loam with gravel
1.2 - 1.8	0.6	Light brown silty sand with gravel
1.8 - 2.9	1.1	No recovery
2.9 - 4.6	1.7	Light brown silty sand with gravel
4.6 - 7.9	3.3	No recovery
7.9 - 10.3	2.4	Tan sand with gravel mixed with caliche
10.3 - 12.9	2.6	No recovery
12.9 - 14.8	1.9	Tan sand with gravel
14.8 - 17.9	3.1	No recovery
17.9 - 19.0	1.1	Tan sand with gravel
19.0 - 19.8	0.8	Red silty sand
19.8 - 21.6	1.8	Tan sand with gravel
21.6 - 22.9	1.3	No recovery
22.9 - 26.3	3.4	Tan sand with gravel
26.3 - 27.9	1.6	No recovery
27.9 - 29.7	1.8	Tan sand with gravel mixed with caliche
29.7 - 30.4	0.7	Red clay

SAMPLE LOG

Well Number SG 360 Well Location N22 + 61.5 El + 66.8  
Well Owner Transwestern Pipeline Company  
Sample Logger D. Briggs, METRIC Corporation  
Driller METRIC Corporation  
Drilling Medium Hollow Stem Auger  
  
Date of Completion 7-25-91 Ground Elev. 3610.83

Depth (feet)	Thickness (feet)	Stratigraphic Description
0.0 - 1.0	1.0	Brown sandy loam
1.0 - 2.5	1.5	White silty sand with gravel
2.5 - 2.9	0.4	No recovery
2.9 - 5.1	2.2	White silty sand with gravel
5.1 - 7.9	2.8	No recovery
7.9 - 9.9	2.0	Tan sand with gravel
9.9 - 12.9	3.0	No recovery
12.9 - 14.7	1.8	Tan sand with gravel
14.7 - 17.9	3.2	No recovery
17.9 - 19.6	1.7	Tan fine sand with gravel
19.6 - 21.0	1.4	Tan sand with gravel
21.0 - 22.9	1.9	No recovery
22.9 - 25.3	2.4	Tan sand with gravel
25.3 - 27.9	2.6	No recovery
27.9 - 28.9	1.0	Tan sand with gravel
28.9 - 29.4	0.5	Red clay



# METRIC Corporation

## SAMPLE LOG

Well Number SG 361 Well Location N22 + 61.5 E2 + 77.8  
Well Owner Transwestern Pipeline Company  
Sample Logger D. Briggs, METRIC Corporation  
Driller METRIC Corporation  
Drilling Medium Hollow Stem Auger  
  
Date of Completion 7-25-91 Ground Elev. 3610.15

Depth (feet)	Thickness (feet)	Stratigraphic Description
0.0 - 0.5	0.5	Brown sandy loam
0.5 - 2.0	1.5	White silty sand with gravel
2.0 - 3.2	1.2	No recovery
3.2 - 4.0	0.8	White silty sand with gravel
4.0 - 5.3	1.3	Tan sand with gravel
5.3 - 8.2	2.9	No recovery
8.2 - 10.9	2.7	Tan sand with gravel
10.9 - 13.2	2.3	No recovery
13.2 - 16.4	3.2	Tan sand with gravel
16.4 - 18.2	1.8	No recovery
18.2 - 19.8	1.6	Caliche with pebbles
19.8 - 23.2	3.4	No recovery
23.2 - 25.4	2.2	Tan sand with gravel mixed with caliche
25.4 - 28.2	2.8	No recovery
28.2 - 28.5	0.3	Cemented pebbles
28.5 - 29.6	1.1	Tan sand with gravel
29.6 - 33.2	3.6	No recovery
33.2 - 35.4	2.2	Tan sand with gravel
35.4 - 38.2	2.8	No recovery
38.2 - 38.9*	0.7	Tan sand with gravel
38.9 - 41.3	2.4	Red sandy clay

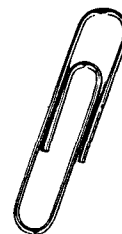
\* Groundwater encountered at 38.9'

**METRIC**  
Corporation

SAMPLE LOG

Borehole Number OS BH-1 Borehole Location N16 + 64.9 E3 + 75.9  
Property Owner Transwestern Pipeline Company  
Sample Logger D. Briggs, METRIC Corporation  
Driller METRIC Corporation  
Drilling Medium Hollow Stem Auger  
  
Date of Completion 7-22-91 Ground Elev. 3622.30

Depth (feet)	Thickness (feet)	Stratigraphic Description
0.0 - 0.8	0.8	Brown sandy loam
0.8 - 2.0	1.2	White caliche
2.0 - 2.9	0.9	No recovery
2.9 - 4.8	1.9	Tan sand with gravel mixed with caliche
4.8 - 7.9	3.1	No recovery
7.9 - 9.4	1.5	Tan sand with gravel
9.4 - 12.9	3.5	No recovery
12.9 - 15.1	2.2	Tan sand with gravel
15.1 - 16.1	1.0	Tan sand with gravel mixed with caliche
16.1 - 17.9	1.8	No recovery
17.9 - 19.1	1.2	Tan sand with gravel
19.1 - 20.3	1.2	Tan sand with gravel mixed with caliche
20.3 - 22.9	2.6	No recovery
22.9 - 23.5	0.6	Grey gravel
23.5 - 25.5	2.0	Tan sand with gravel
25.5 - 27.9	2.4	No recovery
27.9 - 29.1	1.2	White caliche with large gravel
29.1 - 32.9	3.8	No recovery
32.9 - 34.5	1.6	Tan medium sand with gravel
34.5 - 35.7	1.2	Red clay



SAMPLE LOG

Well Number OS BH-2 Well Location N18 + 26.0 E3 + 79.0  
Well Owner Transwestern Pipeline Company  
Sample Logger D. Briggs, METRIC Corporation  
Driller METRIC Corporation  
Drilling Medium Hollow Stem Auger  
  
Date of Completion 7-24-91 Ground Elev. 3618.39

Depth (feet)	Thickness (feet)	Stratigraphic Description
0.0 - 0.6	0.6	Brown sandy loam
0.6 - 2.0	1.4	White caliche with gravel
2.0 - 2.8	0.8	No recovery
2.8 - 3.9	1.1	White caliche with gravel
3.9 - 4.4	0.5	Tan sand with gravel
4.4 - 7.8	3.4	No recovery
7.8 - 9.8	2.0	Tan sand with gravel
9.8 - 10.3	0.5	Tan sand with gravel
10.3 - 17.8	7.5	No recovery
17.8 - 22.1	4.3	Tan sand with gravel
22.1 - 22.8	0.7	Red clay
22.8 - 23.9	1.1	Red sandy clay
23.9 - 27.8	3.9	No recovery
27.8 - 31.7	3.9	Red clay
31.7 - 32.8	1.1	No recovery
32.8 - 35.5	2.7	Red sandy clay
35.5 - 37.8	2.3	No recovery
37.8 - 41.0	3.2	Red silty sand
41.0 - 42.1	1.1	Red silty clay sand
42.1 - 42.8	0.7	No recovery

SAMPLE LOG

Continued

Well Number OS BH-2 Well Location N18 + 26.0 E3 + 79.0

(Continued from Previous Page)

Depth (feet)	Thickness (feet)	Stratigraphic Description
42.8 - 45.1	2.3	Red silty clay sand
45.1 - 46.1	1.0	Red clay
46.1 - 47.8	1.7	No recovery
47.8 - 48.9	1.1	Red clay
48.9 - 49.1	0.2	Red sand
49.1 - 49.7	0.6	Red clay
49.7 - 52.8	3.1	No recovery
52.8 - 54.4	1.6	Tan silty sand
54.4 - 55.4	1.0	Grey silty sand
55.4 - 55.7	0.3	Red clay with black marbling
55.7 - 57.8	2.1	No recovery
57.8 - 58.6*	0.8	Grey silty sand
58.6 - 61.8	3.2	Red clay with black marbling
61.8 - 62.8	1.0	No recovery
62.8 - 64.6	1.8	Red clay
64.6 - 66.3	1.7	Deep red silty sand
66.3 - 67.8	1.5	No recovery
67.8 - 70.6	2.8	Red silty sand with gravel

\* Groundwater encountered at 57.8'

# METRIC Corporation

## SAMPLE LOG

Well Number OS BH-3 Well Location N21 + 08.7 E4 + 95.1  
Well Owner Transwestern Pipeline Company  
Sample Logger D. Briggs, METRIC Corporation  
Driller METRIC Corporation  
Drilling Medium Hollow Stem Auger  
  
Date of Completion 7-26-91 Ground Elev. 3607.04

Depth (feet)	Thickness (feet)	Stratigraphic Description
0.0 - 1.2	1.2	Brown sandy loam
1.2 - 2.3	1.1	Light brown silty sand
2.3 - 3.0	0.7	No recovery
3.0 - 4.5	1.5	Light brown silty sand
4.5 - 6.0	1.5	Light brown sandy clay
6.0 - 7.4	1.4	Light brown sand with white salts
7.4 - 8.0	0.6	No recovery
8.0 - 9.6	1.6	Light brown sandy clay with white salts
9.6 - 10.2	0.4	White caliche with gravel
10.2 - 11.8	1.6	Light red sandy clay with gravel
11.8 - 13.0	1.2	No recovery
13.0 - 13.9	0.9	Tan sand with gravel
13.9 - 17.8	3.9	Red silty clay with white salts
17.8 - 18.0	0.2	No recovery
18.0 - 19.6	1.6	Red silty clay with gypsum nodules
19.6 - 20.8	1.2	Tan silty sand
20.8 - 21.2	0.4	Red silty clay with gypsum nodules
21.2 - 23.0	1.8	No recovery
23.0 - 24.7	1.7	Red silty clay with gypsum nodules
24.7 - 27.5	2.8	Brown silty sand

SAMPLE LOG

Continued

Well Number OS BH-3 Well Location N21+ 08.7 E4 + 95.1

(Continued from Previous Page)

Depth (feet)	Thickness (feet)	Stratigraphic Description
27.5 - 28.0	0.5	No recovery
28.0 - 33.0	5.0	Brown silty clay
33.0 - 37.6	4.6	Brown silty clay
37.6 - 38.0	0.4	No recovery
38.0 - 39.1	1.1	Brown silty clay
39.1 - 41.4	2.3	Reddish silty clay
41.4 - 43.0	1.6	No recovery
43.0 - 44.5	1.5	Reddish silty clay
44.5 - 44.8	0.3	White gypsum
4.8 - 45.3	0.5	Reddish silty clay
45.3 - 48.0	2.7	No recovery
48.0 - 54.5	6.5	White gypsum or caliche
54.5 - 55.0	0.5	Reddish white very fine silty sand

**METRIC**  
Corporation

**SAMPLE LOG**

Borehole Number OS BH-4 Borehole Location N21 + 81.6 E3 + 86.6  
Property Owner Transwestern Pipeline Company  
Sample Logger D. Briggs, METRIC Corporation  
Driller METRIC Corporation  
Drilling Medium Hollow Stem Auger  
  
Date of Completion 7-29-91 Ground Elev. 3604.95

Depth (feet)	Thickness (feet)	Stratigraphic Description
0.0 - 1.2	1.2	Dark brown sandy loam
1.2 - 2.5	1.3	No recovery
2.5 - 3.5	1.0	Brown sandy clay
3.5 - 7.5	4.0	Brown sandy clay with gypsum nodules
7.5 - 10.0	2.5	Brown silty sand with gypsum nodules
10.0 - 12.5	2.5	No recovery
12.5 - 17.5	5.0	Brown silty sand with gravel
17.5 - 19.2	1.7	Tan sand with gravel
19.2 - 22.5	3.3	No recovery
22.5 - 24.4	1.9	Tan sand with gravel
24.4 - 24.9	0.5	Red clay
24.9 - 27.5	2.6	No recovery
27.5 - 31.0	3.5	Red clay with white nodules

**METRIC**  
Corporation

SAMPLE LOG

Borehole Number OS BH-5 Borehole Location N19 + 92.0 E3 + 89.5  
Property Owner Transwestern Pipeline Company  
Sample Logger D. Briggs, METRIC Corporation  
Driller METRIC Corporation  
Drilling Medium Hollow Stem Auger  
  
Date of Completion 7-30-91 Ground Elev. 3611.12

Depth (feet)	Thickness (feet)	Stratigraphic Description
0.0 - 0.9	0.9	Brown sandy loam
0.9 - 1.5	0.6	Tan silty sand
1.5 - 2.5	1.0	No recovery
2.5 - 3.3	0.8	Tan silty sand with gravel
3.3 - 4.0	0.7	White caliche with gravel
4.0 - 7.5	3.5	No recovery
7.5 - 9.5	2.0	Tan silty sand with gravel
9.5 - 12.5	3.0	No recovery
12.5 - 14.2	1.7	Tan silty sand with gravel
14.2 - 14.7	0.5	White silty sand with gravel
14.7 - 17.5	2.8	No recovery
17.5 - 19.9	2.4	White caliche with gravel
19.9 - 20.1	0.2	Red clay
20.1 - 22.5	2.4	No recovery
22.5 - 24.8	2.3	Red clay with black nodules



**METRIC**  
Corporation

SAMPLE LOG

Borehole Number OS BH-6 Borehole Location N18 + 17.5 E4 + 60.9  
Property Owner Transwestern Pipeline Company  
Sample Logger D. Briggs, METRIC Corporation  
Driller METRIC Corporation  
Drilling Medium Hollow Stem Auger  
  
Date of Completion 7-30-91 Ground Elev. 3619.15

Depth (feet)	Thickness (feet)	Stratigraphic Description
0.0 - 1.1	1.1	Brown sandy loam
1.1 - 1.7	0.6	Tan sand with gravel
1.7 - 2.6	0.9	No recovery
2.6 - 4.0	1.4	Tan sand with gravel
4.0 - 7.6	3.6	No recovery
7.6 - 9.7	2.1	Tan sand with large gravel
9.7 - 12.6	2.9	No recovery
12.6 - 14.7	2.1	Tan sand with gravel
14.7 - 17.6	2.9	No recovery
17.6 - 19.2	1.6	Tan sand with gravel
19.2 - 22.6	3.4	No recovery
22.6 - 24.0	1.4	Gravel ( $\frac{1}{2}$ " - 2")
24.0 - 27.6	3.6	No recovery
27.6 - 34.7	7.1	Tan sand with gravel
34.7 - 37.6	2.9	No recovery
37.6 - 39.6	2.0	Tan sand with gravel
39.6 - 45.0	5.4	No recovery
45.0 - 46.4	1.4	Tan sand with gravel

SAMPLE LOG

Continued

Well Number OS BH-6 Well Location N18 + 17.5 E4 + 60.9

(Continued from Previous Page)

Depth (feet)	Thickness (feet)	Stratigraphic Description
46.4 - 47.6	1.2	Red silty sand
47.6 - 52.6	5.0	No recovery
52.6 - 55.3*	2.7	Red silty sand with black marbling
55.3 - 57.6	2.3	No recovery
57.6 - 60.7	3.1	Red silty sand with black marbling
60.7 - 62.6	1.9	No recovery
62.6 - 66.1	3.5	Red silty clay to sand with black marbling
66.1 - 67.0	0.9	Red silty clay with gravel
67.0 - 67.6	0.6	No recovery
67.6 - 72.6	5.0	Red silty clay with gravel and sand lenses

\* Groundwater encountered at 54.3'

**METRIC**  
Corporation

SAMPLE LOG

Borehole Number OS BH-7 Borehole Location N18 + 27.6 E5 + 05.7  
Property Owner Transwestern Pipeline Company  
Sample Logger D. Briggs, METRIC Corporation  
Driller METRIC Corporation  
Drilling Medium Hollow Stem Auger  
  
Date of Completion 7-31-91 Ground Elev. 3616.69

Depth (feet)	Thickness (feet)	Stratigraphic Description
0.0 - 0.8	0.8	Brown silty clay sand
0.8 - 1.7	0.9	White silty sand with gravel
1.7 - 2.0	0.3	No recovery
2.0 - 4.8	2.8	Tan sand with gravel mixed with caliche
4.8 - 7.0	2.2	No recovery
7.0 - 10.2	3.2	Tan sand with gravel .
10.2 - 12.0	1.8	No recovery
12.0 - 15.1	3.1	Tan sand with gravel
15.1 - 17.0	1.9	No recovery
17.0 - 18.8	1.8	Tan sand with gravel
18.8 - 20.1	1.3	Tan sand with gravel mixed with caliche
20.1 - 22.0	1.9	No recovery
22.0 - 32.0	10.0	Red sandy clay
32.0 - 34.0	2.0	Red silty clay
34.0 - 37.0	3.0	No recovery
37.0 - 38.1	1.1	Red clay
38.1 - 40.3	2.2	Red clay with gravel

**METRIC**  
Corporation

**SAMPLE LOG**

Borehole Number OS BH-8      Borehole Location N16 + 71.9    E4 + 60.8  
Property Owner Transwestern Pipeline Company  
Sample Logger D. Briggs, METRIC Corporation  
Driller METRIC Corporation  
Drilling Medium Hollow Stem Auger  
  
Date of Completion 7-31-91      Ground Elev. 3620.04

Depth (feet)	Thickness (feet)	Stratigraphic Description
0.0 - 1.0	1.0	Brown silty sand
1.0 - 2.3	1.3	White silty sand and caliche with gravel
2.3 - 2.6	0.3	No recovery
2.6 - 3.7	1.1	White silty sand and caliche with gravel
3.7 - 6.4	2.7	Tan sand with gravel and caliche
6.4 - 7.6	1.2	No recovery
7.6 - 10.8	3.2	Tan sand with gravel and caliche
10.8 - 12.6	1.8	No recovery
12.6 - 14.8	2.2	Tan sand with gravel
14.8 - 16.0	1.2	Tan sand with pebbles
16.0 - 17.6	1.6	No recovery
17.6 - 21.2	3.6	Tan sand with gravel
21.2 - 22.6	1.4	No recovery
22.6 - 26.6	4.0	Tan sand with gravel
26.6 - 27.6	1.0	No recovery
27.6 - 30.6	3.0	Tan sand with large gravel mixed with cemented pebbles
30.6 - 32.6	2.0	No recovery

SAMPLE LOG

Continued

Well Number OS BH-8 Well Location N16 + 71.9 E4 + 60.8

(Continued from Previous Page)

Depth (feet)	Thickness (feet)	Stratigraphic Description
32.6 - 33.9	1.3	Tan sand with gravel
33.9 - 35.9	2.0	Red sandy clay
35.9 - 37.6	1.7	No recovery
37.6 - 39.6	2.0	Red clay
39.6 - 42.2	2.6	Red fine sand
42.2 - 42.6	0.4	No recovery
42.6 - 44.1	1.5	Red very fine silty sand
44.1 - 47.6	3.5	No recovery
47.6 - 49.9*	2.3	Red very fine silty sand

\* Groundwater encountered at 49'

**METRIC**  
Corporation

SAMPLE LOG

Borehole Number OS BH-9 Borehole Location N18 + 91.6 E4 + 67.2  
Property Owner Transwestern Pipeline Company  
Sample Logger D. Briggs, METRIC Corporation  
Driller METRIC Corporation  
Drilling Medium Hollow Stem Auger  
  
Date of Completion 8-1-91 Ground Elev. 3614.77

Depth (feet)	Thickness (feet)	Stratigraphic Description
0.0 - 0.8	0.8	Brown silty loam
0.8 - 1.6	0.8	White caliche with gravel
1.6 - 2.5	0.9	No recovery
2.5 - 5.5	3.0	White caliche with gravel
5.5 - 7.5	2.0	No recovery
7.5 - 11.4	3.9	Tan sand with gravel mixed with caliche
11.4 - 12.5	1.1	No recovery
12.5 - 15.5	3.0	Tan sand with gravel mixed with caliche
15.5 - 17.5	2.0	No recovery
17.5 - 20.3	2.8	Tan sand with gravel mixed with caliche
20.3 - 22.5	2.2	No recovery
22.5 - 25.4	2.9	White caliche with gravel
25.4 - 27.5	2.1	No recovery
27.5 - 31.0	3.5	White caliche with gravel
31.0 - 32.0	1.0	Red clay
32.0 - 32.5	0.5	Red silty sand
32.5 - 35.7	3.2	Red silty clayey sand

SAMPLE LOG

Continued

Well Number OS BH-9 Well Location N18 + 91.6 E4 + 67.2

(Continued from Previous Page)

Depth (feet)	Thickness (feet)	Stratigraphic Description
35.7 - 37.5	1.8	No recovery
37.5 - 39.7	2.2	Red silty sand
39.7 - 42.5	2.8	No recovery
42.5 - 43.4	0.9	Red sandy clay
43.4 - 47.5	4.1	No recovery
47.5 - 48.3	0.8	Red sandy clay
48.3 - 49.0*	0.7	Red gravelly clay
49.0 - 49.7	0.7	Red clay

\* Groundwater encountered at 48.5'

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## REPORT

Results by Sample

Work Order # 91-07-15

Continued From Above

SAMPLE ID PIT I 18.8 - 19.0FRACTION 06ATEST CODE 8010 SNAME PURGEABLE HALOCARBONS-SOILDate & Time Collected not specified

Category \_\_\_\_\_

## Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 07/23/91

DATE RUN \_\_\_\_\_ 07/23/91

ANALYST D/R

UNITS \_\_\_\_\_ MG/KG

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## REPORT Results by Sample

Work Order # 91-07-215

SAMPLE ID PIT I 26.8 - 27.0

FRACTION 07A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	0.16	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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REPORT  
Results by Sample

Work Order # 91-07-215  
Continued From Above

SAMPLE ID PIT I 26.8 - 27.0

FRACTION 07A TEST CODE 8010 8 NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category \_\_\_\_\_

Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 07/23/91  
DATE RUN \_\_\_\_\_ 07/23/91  
ANALYST D/R  
UNITS \_\_\_\_\_ MG/KG



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**REPORT**  
**Results by Sample**

Work Order # 91-07-215

 SAMPLE ID PIT I 30.6-30.8

 FRACTION 08A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
 Date & Time Collected not specified Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1


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## REPORT

## Results by Sample

Work Order # 91-07-15

Continued From Above

SAMPLE ID PIT I 30.6-30.8FRACTION 08ATEST CODE 8010 SNAME PURGEABLE HALOCARBONS-SOILDate & Time Collected not specified

Category \_\_\_\_\_

## Notes and Definitions for this Report:

EXTRACTED 07/23/91DATE RUN 07/23/91ANALYST D/RUNITS MG/KGMember: American Council of  
Independent Laboratories, Inc.

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## REPORT Results by Sample

Work Order # 91-07-215

SAMPLE ID PIT I 41.6 - 41.8 FRACTION 09A TEST CODE 8010 8 NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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**REPORT**  
**Results by Sample**

Work Order # 91-07-215  
Continued From Above

SAMPLE ID PIT I 41.6 - 41.8 FRACTION 09A TEST CODE 8010 8 NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category \_\_\_\_\_

Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 07/23/91  
DATE RUN \_\_\_\_\_ 07/23/91  
ANALYST D/R  
UNITS \_\_\_\_\_ MG/KG



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## REPORT

Work Order # 91-07-215

## Results by Sample

SAMPLE ID PIT I 41.6 - 41.8FRACTION 09A TEST CODE 8020 NAME AROMATIC VOLATILE ORGANICSDate & Time Collected not specified Category \_\_\_\_\_

PARAMETER	RESULT	DET LIMIT
BENZENE	<u>&lt;0.1</u>	<u>0.1</u>
CHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,4-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,3-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,2-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
ETHYL BENZENE	<u>&lt;0.1</u>	<u>0.1</u>
TOLUENE	<u>&lt;0.1</u>	<u>0.1</u>
XYLENES	<u>&lt;0.1</u>	<u>0.1</u>

## Notes and Definitions for this Report:

EXTRACTED 07/23/91DATE RUN 07/23/91ANALYST DDUNITS MG/KG

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## REPORT

Work Order # 91-07-215

## Results by Sample

SAMPLE ID PIT I 43.5-43.7FRACTION 10ATEST CODE 8010 SNAME PURGEABLE HALOCARBONS-SOILDate & Time Collected not specified

Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<u>&lt;0.1</u>	<u>0.1</u>
BROMOFORM	<u>&lt;0.1</u>	<u>0.1</u>
BROMOMETHANE	<u>&lt;0.1</u>	<u>0.1</u>
CARBON TETRACHLORIDE	<u>&lt;0.1</u>	<u>0.1</u>
CHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
CHLOROETHANE	<u>&lt;0.1</u>	<u>0.1</u>
CHLOROFORM	<u>&lt;0.1</u>	<u>0.1</u>
2-CHLOROETHYL VINYL ETHER	<u>&lt;0.1</u>	<u>0.1</u>
CHLOROMETHANE	<u>&lt;0.1</u>	<u>0.1</u>
DIBROMOCHLOROMETHANE	<u>&lt;0.1</u>	<u>0.1</u>
1,2-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,3-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,4-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
DICHLORODIFLUOROMETHANE	<u>&lt;0.1</u>	<u>0.1</u>
1,1-DICHLOROETHANE	<u>&lt;0.1</u>	<u>0.1</u>
1,2-DICHLOROETHANE	<u>&lt;0.1</u>	<u>0.1</u>
1,1-DICHLOROETHENE	<u>&lt;0.1</u>	<u>0.1</u>
trans-1,2-DICHLOROETHENE	<u>&lt;0.1</u>	<u>0.1</u>
1,2-DICHLOROPROPANE	<u>&lt;0.1</u>	<u>0.1</u>
cis-1,3-DICHLOROPROPENE	<u>&lt;0.1</u>	<u>0.1</u>
1,1,2,2-TETRACHLOROETHANE	<u>&lt;0.1</u>	<u>0.1</u>
trans-1,3-DICHLOROPROPENE	<u>&lt;0.1</u>	<u>0.1</u>
METHYLENE CHLORIDE	<u>&lt;0.1</u>	<u>0.1</u>
1,1,1-TRICHLOROETHANE	<u>&lt;0.1</u>	<u>0.1</u>
1,1,2-TRICHLOROETHANE	<u>&lt;0.1</u>	<u>0.1</u>
TETRACHLOROETHENE	<u>&lt;0.1</u>	<u>0.1</u>
TRICHLOROFLUOROMETHANE	<u>&lt;0.1</u>	<u>0.1</u>
TRICHLOROETHENE	<u>&lt;0.1</u>	<u>0.1</u>
VINYL CHLORIDE	<u>&lt;0.1</u>	<u>0.1</u>





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**REPORT****Results by Sample****Work Order # 91-07-215**

Continued From Above

SAMPLE ID PIT I 43.5-43.7FRACTION 10ATEST CODE 8010 SNAME PURGEABLE HALOCARBONS-SOILDate & Time Collected not specified

Category \_\_\_\_\_

## Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 07/23/91

DATE RUN \_\_\_\_\_ 07/23/91

ANALYST D/R

UNITS \_\_\_\_\_ MG/KG



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## REPORT Results by Sample

Work Order # 91-07-215

SAMPLE ID PIT I 43.5-43.7

FRACTION 10A

TEST CODE 8020

NAME AROMATIC VOLATILE ORGANICS

Date & Time Collected not specified

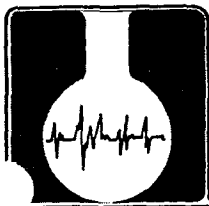
Category \_\_\_\_\_

PARAMETER	RESULT	DET LIMIT
BENZENE	<u>&lt;0.1</u>	<u>0.1</u>
CHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,4-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,3-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,2-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
ETHYL BENZENE	<u>&lt;0.1</u>	<u>0.1</u>
TOLUENE	<u>&lt;0.1</u>	<u>0.1</u>
XYLENES	<u>&lt;0.1</u>	<u>0.1</u>

### Notes and Definitions for this Report:

EXTRACTED 07/23/91  
DATE RUN 07/23/91  
ANALYST DD  
UNITS MG/KG





# ASSAIGAI ANALYTICAL LABORATORIES

## WORK ORDER 7752

<input type="checkbox"/> HAZARDOUS <input type="checkbox"/> NON-HAZARDOUS	DATE RECEIVED 7/18/91	ESTIMATED COST	
CUSTOMER P.O. NUMBER	TIME RECEIVED 9:15	DUE DATE 8/1/91	
ACCOUNT INFORMATION			
CUSTOMER'S NAME ENRON / TRANSCONTINENTAL PIPELINE	CONTACT LARRY CAMPBELL		
ADDRESS	PHONE NUMBER		
CITY / STATE / ZIP Houston			
PARTY RESPONSIBLE FOR PAYMENT IF OTHER THAN ABOVE		ACCOUNT STATUS	
NAME	CONTACT	PAYMENT REC'D. <input checked="" type="checkbox"/> OPEN ACCOUNT <input checked="" type="checkbox"/> CASH <input type="checkbox"/> CHECK NUMBER <input type="checkbox"/>	
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
<input type="checkbox"/> WATER	10	<input type="checkbox"/> REGULAR (10 WKG DAYS)	Station 9 - Gas Tank
<input checked="" type="checkbox"/> SOIL		<input type="checkbox"/> RUSH (3 DAYS)	Station 9 - Pit 1
<input type="checkbox"/> OIL	NO. OF CONTAINERS	<input type="checkbox"/> EMERGENCY (STAT)	
<input type="checkbox"/> SLUDGE	10		
<input type="checkbox"/> OTHER			
SAMPLE DELIVERED BY		SIGNATURE	DATE
Jed Y. [Signature]		Next Day Air	7/18/91
ANALYSIS REQUEST			
WORK DESCRIPTION			
TPH, BTEX 8010 8020 See CofC.			
SPECIAL INSTRUCTIONS			
BILLING: <input type="checkbox"/> PICKUP <input type="checkbox"/> MAIL		LOGGED IN BY	

TRANSWESTERN PIPELINE COMPANY

CHAIN OF CUSTODY

District: ROSWELL

Date: 7-17-91

Sample Location  
Valve or Receiver No.

Vol. Collect.  
During Flush

Sampler

STATION 9-GAS TANK  
STATION 9-PIT 1

<u>SAMPLE ID NUMBER</u>	<u>SOLVENT USED</u>	<u>SAMPLE ICED</u>	<u>ANALYSES REQUESTED</u>
<u>GAS TANK Composite</u>			
<u>0-1.6, 2.8-4.2, 28-9.2</u>		<u>YES</u>	<u>TPH, BTEX</u>
<u>GAS TANK 16.0-16.3</u>		<u>YES</u>	<u>TPH, BTEX</u>
<u>PIT 1 2.8-3.0</u>		<u>YES</u>	<u>8010</u>
<u>PIT 1 9.2-9.4</u>		<u>YES</u>	<u>8010</u>
<u>PIT 1 13.5-13.7</u>		<u>YES</u>	<u>8010</u>
<u>PIT 1 18.8-19.0</u>		<u>YES</u>	<u>8010</u>
<u>PIT 1 26.8-27.0</u>		<u>YES</u>	<u>8010</u>
<u>PIT 1 30.6-30.8</u>		<u>YES</u>	<u>8010</u>
<u>PIT 1 41.6-41.8</u>		<u>YES</u>	<u>8010, 8020</u>
<u>PIT 1 43.5-43.7</u>		<u>YES</u>	<u>8010, 8020</u>

Relinquished By EARL SHAWLEY / TW PL CO.

Date 7-17-91

Relinquished To FED-X

Date 7-17-91

Relinquished By FED-X

Date

Relinquished To ASSAGI LABS

Date

Relinquished By

Date

Relinquished To

Date

Relinquished By

Date

Relinquished By

Date

Laboratory: ASSAGI LABS

Received: CDK

Date 7/18/91

\* MAIL TEST RESULTS TO: LARRY CAMPBELL

P.O. Box 1717

ROSWELL N.M. 88202-1717

505-625-8022

TRANSWESTERN PIPELINE COMPANY

CHAIN OF CUSTODY

District: ROSWELL

Date: 7-17-91

Sample Location  
Valve or Receiver No.

Vol. Collect.  
During Flush

Sampler

STATION 9 - GAS TANK

STATION 9 - PIT 1

SAMPLE ID NUMBER

SOLVENT  
USED

SAMPLE  
ICED

ANALYSES REQUESTED

GAS TANK 2.8-3.2

GAS TANK 16.0-16.2

PIT 1 2.8-3.2

PIT 1 3.2-9.4

PIT 1 12.8-42.7

PIT 1 12.8-19.0

PIT 1 24.8-27.0

PIT 1 3.2-30.8

PIT 1 41.6-41.8

PIT 1 43.5-43.7

YES

YES

YES

YES

YES

YES

YES

YES

YES

TPH BTEX

TPH BTEX

2010

8010

8010

8010

8010

8010

8010 BTEX

8010 8020

Relinquished By EARL SHAWLEY / TWPLCO.

Relinquished To FLO-A

Date 7-17-91

Date 7-17-91

Relinquished By FLO-A

Relinquished To ASSOCI LAB

Date

Date

Relinquished By

Relinquished To

Date

Date

Relinquished By

Relinquished By

Date

Date

Laboratory: ASSOCI LAB

Received: 7/17/91

Date 7/17/91

\* MAIL TEST RESULTS TO LARRY CAMPBELL

PO BOX 1117

ROSWELL, NM 87601-1117

COS-625-1122

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REPORT

Work Order # 91-07-257

07/31/91 10:36:55

REPORT ENRON/TRANSWESTERN PIPELINE  
TO 6381 N. MAIN STREET  
P.O. BOX 1717  
ROSWELL, NM 88202-1717  
ATTEN LARRY CAMPBELLPREPARED Assaigai Analytical Labs  
BY 7300 Jefferson NE  
Albuquerque, NM 87109Syed Rizvi  
CERTIFIED BYCLIENT ENR03 SAMPLES 12  
COMPANY ENRON/TRANSWESTERN PIPELINE  
FACILITY ROSWELL, NEW MEXICO  
ENR03ATTEN SYED RIZVI  
PHONE (505)345-8964CONTACT LAB MANAGERQUESTIONS ABOUT THIS REPORT SHOULD BE ADDRESSED TO:  
LABORATORY OPERATIONS MANAGER/ASSAIGAI ANALYTICAL  
7300 JEFFERSON N.E., ALBUQUERQUE, N.M. 87109WORK ID STATION #9 7784  
TAKEN 7/22/91  
TRANS FEDERAL EXPRESS  
TYPE SOIL  
P.O. # \_\_\_\_\_  
INVOICE under separate cover**SAMPLE IDENTIFICATION**01 PIT 2 SAMPLE 001  
02 PIT 2 SAMPLE 002  
03 PIT 2 26.0-26.2  
04 PIT 2 29.1-29.3  
05 PIT 2 39.8-39.9  
06 PIT 2 44.1-44.3  
07 PIT 2 57.5-57.8  
08 PIT 2 69.9-70.1  
09  
10  
11 PIT 3 BH-2 25.0-25.2  
12 PIT 3 BH-1 30.7-30.9**TEST CODES and NAMES used on this workorder**8010 S PURGEABLE HALOCARBONS-SOIL  
8020 AROMATIC VOLATILE ORGANICS  
TRPH TOTAL REC PET HYDROCARBONS

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## REPORT Results by Sample

Work Order # 91-07-257

SAMPLE ID PIT 2 SAMPLE 001 FRACTION 01A TEST CODE 8010 8 NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/22/91 Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLORO BENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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**REPORT**  
**Results by Sample**

Work Order # 91-07-257  
Continued From Above

SAMPLE ID PIT 2 SAMPLE 001

FRACTION 01A TEST CODE 8010\_8 NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/22/91 Category \_\_\_\_\_

**Notes and Definitions for this Report:**

EXTRACTED \_\_\_\_\_ 07/29/91  
DATE RUN \_\_\_\_\_ 07/29/91  
ANALYST D/R  
UNITS \_\_\_\_\_ MG/KG



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**REPORT**
**Results by Sample**

Work Order # 91-07-257

 SAMPLE ID PIT 2 SAMPLE 002

 FRACTION 02A

 TEST CODE 8010 S

 NAME PURGEABLE HALOCARBONS-SOIL

 Date & Time Collected 07/22/91

Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	x 0.37	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	x 0.65	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1


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Received: 07/23/91**REPORT**  
**Results by Sample**Work Order # 91-07-257  
Continued From AboveSAMPLE ID PIT 2 SAMPLE 002FRACTION 02A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/22/91 Category \_\_\_\_\_

## Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 07/29/91  
DATE RUN \_\_\_\_\_ 07/29/91  
ANALYST D/R  
UNITS \_\_\_\_\_ MG/KG

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## REPORT Results by Sample

Work Order # 91-07-257

SAMPLE ID PIT 2 26.0-26.2 FRACTION 03A TEST CODE 8010 8 NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/22/91 Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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REPORT  
Results by Sample

Work Order # 91-07-457  
Continued From Above

SAMPLE ID PIT 2 26.0-26.2

FRACTION 03A TEST CODE 8010\_8 NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/22/91 Category \_\_\_\_\_

Notes and Definitions for this Report:

EXTRACTED 07/29/91  
DATE RUN 07/29/91  
ANALYST D/R  
UNITS MG/KG



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## REPORT Results by Sample

Work Order # 91-07-257

SAMPLE ID PIT 2 29.1-29.3 FRACTION 04A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/22/91 Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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Results by SampleWork Order # 91-07-257  
Continued From AboveSAMPLE ID PIT 2 29.1-29.3 FRACTION 04A TEST CODE 8010 8 NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/22/91 Category \_\_\_\_\_

## Notes and Definitions for this Report:

EXTRACTED 07/29/91  
DATE RUN 07/29/91  
ANALYST D/R  
UNITS MG/KG

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## REPORT Results by Sample

Work Order # 91-07-257

SAMPLE ID PIT 2 39.8-39.9 FRACTION 05A TEST CODE 8010 8 NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/22/91 Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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Results by SampleWork Order # 91-07-257  
Continued From AboveSAMPLE ID PIT 2 39.8-39.9 FRACTION 05A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/22/91 Category \_\_\_\_\_

## Notes and Definitions for this Report:

EXTRACTED 07/29/91  
DATE RUN 07/29/91  
ANALYST D/R  
UNITS MG/KG



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## REPORT Results by Sample

Work Order # 91-07-257

SAMPLE ID PIT 2 44.1-44.3 FRACTION 06A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/22/91 Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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REPORT  
Results by Sample

Work Order # 91-07-457  
Continued From Above

SAMPLE ID PIT 2 44.1-44.3

FRACTION 06A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/22/91 Category \_\_\_\_\_

Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 07/29/91  
DATE RUN \_\_\_\_\_ 07/29/91  
ANALYST D/R  
UNITS \_\_\_\_\_ MG/KG



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## REPORT

Work Order # 91-07-257

## Results by Sample

SAMPLE ID PIT 2 44.1-44.3FRACTION 06ATEST CODE 8020NAME AROMATIC VOLATILE ORGANICSDate & Time Collected 07/22/91

Category \_\_\_\_\_

PARAMETER	RESULT	DET LIMIT
BENZENE	<u>&lt;0.1</u>	<u>0.1</u>
CHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,4-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,3-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,2-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
ETHYL BENZENE	<u>&lt;0.1</u>	<u>0.1</u>
TOLUENE	<u>&lt;0.1</u>	<u>0.1</u>
XYLENES	<u>&lt;0.1</u>	<u>0.1</u>

## Notes and Definitions for this Report:

EXTRACTED 07/29/91DATE RUN 07/29/91ANALYST D/RUNITS MG/KGMember: American Council of  
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**REPORT**  
**Results by Sample**

Work Order # 91-07-457

 SAMPLE ID PIT 2 57.5-57.8 FRACTION 07A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
 Date & Time Collected 07/22/91 Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLORO BENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLORO BENZENE	<0.1	0.1
1,3-DICHLORO BENZENE	<0.1	0.1
1,4-DICHLORO BENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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**REPORT**  
**Results by Sample**

Work Order # 91-07-257  
Continued From Above

SAMPLE ID PIT 2 57.5-57.8

FRACTION 07A TEST CODE 8010 8 NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/22/91 Category \_\_\_\_\_

**Notes and Definitions for this Report:**

EXTRACTED \_\_\_\_\_ 07/29/91  
DATE RUN \_\_\_\_\_ 07/30/91  
ANALYST D/R  
UNITS \_\_\_\_\_ MG/KG



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## REPORT Results by Sample

Work Order # 91-07-457

SAMPLE ID PIT 2 69.9-70.1

FRACTION 08A

TEST CODE 8010 S

NAME PURGEABLE HALOCARBONS-SOIL

Date & Time Collected 07/22/91

Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<u>&lt;0.1</u>	<u>0.1</u>
BROMOFORM	<u>&lt;0.1</u>	<u>0.1</u>
BROMOMETHANE	<u>&lt;0.1</u>	<u>0.1</u>
CARBON TETRACHLORIDE	<u>&lt;0.1</u>	<u>0.1</u>
CHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
CHLOROETHANE	<u>&lt;0.1</u>	<u>0.1</u>
CHLOROFORM	<u>&lt;0.1</u>	<u>0.1</u>
2-CHLOROETHYL VINYL ETHER	<u>&lt;0.1</u>	<u>0.1</u>
CHLOROMETHANE	<u>&lt;0.1</u>	<u>0.1</u>
DIBROMOCHLOROMETHANE	<u>&lt;0.1</u>	<u>0.1</u>
1,2-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,3-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,4-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
DICHLORODIFLUOROMETHANE	<u>&lt;0.1</u>	<u>0.1</u>
1,1-DICHLOROETHANE	<u>&lt;0.1</u>	<u>0.1</u>
1,2-DICHLOROETHANE	<u>&lt;0.1</u>	<u>0.1</u>
1,1-DICHLOROETHENE	<u>&lt;0.1</u>	<u>0.1</u>
trans-1,2-DICHLOROETHENE	<u>&lt;0.1</u>	<u>0.1</u>
1,2-DICHLOROPROPANE	<u>&lt;0.1</u>	<u>0.1</u>
cis-1,3-DICHLOROPROPENE	<u>&lt;0.1</u>	<u>0.1</u>
1,1,2,2-TETRACHLOROETHANE	<u>&lt;0.1</u>	<u>0.1</u>
trans-1,3-DICHLOROPROPENE	<u>&lt;0.1</u>	<u>0.1</u>
METHYLENE CHLORIDE	<u>&lt;0.1</u>	<u>0.1</u>
1,1,1-TRICHLOROETHANE	<u>&lt;0.1</u>	<u>0.1</u>
1,1,2-TRICHLOROETHANE	<u>&lt;0.1</u>	<u>0.1</u>
TETRACHLOROETHENE	<u>&lt;0.1</u>	<u>0.1</u>
TRICHLOROFLUOROMETHANE	<u>&lt;0.1</u>	<u>0.1</u>
TRICHLOROETHENE	<u>&lt;0.1</u>	<u>0.1</u>
VINYL CHLORIDE	<u>&lt;0.1</u>	<u>0.1</u>



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Received: 07/23/91

## REPORT

### Results by Sample

Work Order # 91-07-457

Continued From Above

SAMPLE ID PIT 2 69.9-70.1

FRACTION 08A

TEST CODE 8010 S

NAME PURGEABLE HALOCARBONS-SOIL

Date & Time Collected 07/22/91

Category \_\_\_\_\_

### Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 07/29/91

DATE RUN \_\_\_\_\_ 07/30/91

ANALYST D/R

UNITS \_\_\_\_\_ MG/KG



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## REPORT

Work Order # 91-07-257

## Results by Sample

SAMPLE ID PIT 2 69.9-70.1FRACTION 08ATEST CODE 8020NAME AROMATIC VOLATILE ORGANICSDate & Time Collected 07/22/91

Category \_\_\_\_\_

## PARAMETER

## RESULT

## DET LIMIT

BENZENE

<0.10.1

CHLOROBENZENE

<0.10.1

1,4-DICHLOROBENZENE

<0.10.1

1,3-DICHLOROBENZENE

<0.10.1

1,2-DICHLOROBENZENE

<0.10.1

ETHYL BENZENE

<0.10.1

TOLUENE

<0.10.1

XYLENES

<0.10.1

## Notes and Definitions for this Report:

EXTRACTED 07/29/91DATE RUN 07/30/91ANALYST D/RUNITS MG/KG



## Results by Sample

SAMPLE ID PIT 3 BH-2 25.0-25.2 FRACTION 11A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/22/91 Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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**REPORT****Results by Sample****Work Order # 91-07-257**

Continued From Above

SAMPLE ID PIT 3 BH-2 25.0-25.2FRACTION 11A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOILDate & Time Collected 07/22/91 Category \_\_\_\_\_**Notes and Definitions for this Report:**EXTRACTED \_\_\_\_\_ 07/29/91DATE RUN \_\_\_\_\_ 07/30/91ANALYST D/RUNITS \_\_\_\_\_ MG/KG

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## REPORT

Work Order # 91-07-257

## Results by Sample

SAMPLE ID PIT 3 BH-2 25.0-25.2FRACTION 11ATEST CODE 8020NAME AROMATIC VOLATILE ORGANICSDate & Time Collected 07/22/91

Category \_\_\_\_\_

PARAMETER	RESULT	DET LIMIT
BENZENE	<u>&lt;0.1</u>	<u>0.1</u>
CHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,4-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,3-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,2-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
ETHYL BENZENE	<u>&lt;0.1</u>	<u>0.1</u>
TOLUENE	<u>&lt;0.1</u>	<u>0.1</u>
XYLENES	<u>&lt;0.1</u>	<u>0.1</u>

## Notes and Definitions for this Report:

EXTRACTED 07/29/91DATE RUN 07/30/91ANALYST D/RUNITS MG/KG

Results by Sample

SAMPLE ID PIT 3 BH-1 30.7-30.9

FRACTION 12A

TEST CODE 8010 S

NAME PURGEABLE HALOCARBONS-SOIL

Date & Time Collected 07/22/91

Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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REPORT  
Results by Sample

Work Order # 91-07-257  
Continued From Above

SAMPLE ID PIT 3 BH-1 30.7-30.9 FRACTION 12A TEST CODE 8010 8 NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/22/91 Category \_\_\_\_\_

Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 07/29/91  
DATE RUN \_\_\_\_\_ 07/30/91  
ANALYST D/R  
UNITS \_\_\_\_\_ MG/KG



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**REPORT**

Work Order # 91-07-457

**Results by Sample**SAMPLE ID PIT 3 BH-1 30.7-30.9FRACTION 12A TEST CODE 8020NAME AROMATIC VOLATILE ORGANICSDate & Time Collected 07/22/91

Category \_\_\_\_\_

PARAMETER	RESULT	DET LIMIT
BENZENE	<u>&lt;0.1</u>	<u>0.1</u>
CHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,4-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,3-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,2-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
ETHYL BENZENE	<u>&lt;0.1</u>	<u>0.1</u>
TOLUENE	<u>&lt;0.1</u>	<u>0.1</u>
XYLENES	<u>&lt;0.1</u>	<u>0.1</u>

**Notes and Definitions for this Report:**EXTRACTED 07/29/91DATE RUN 07/30/91ANALYST D/RUNITS MG/KG



**WORK ORDER**  
7784

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

TRANSWESTERN PIPELINE COMPANY

CHAIN OF CUSTODY

District: ROSWELL

Date: 7-22-91

Sample Location  
Valve or Receiver No.

Vol. Collect.  
During Flush

Sampler

STATION 9 -  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

METRIC CORR.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

<u>SAMPLE ID NUMBER</u>	<u>SOLVENT USED</u>	<u>SAMPLE ICED</u>	<u>ANALYSES REQUESTED</u>
<u>PIT 2 Sample 001</u>		<u>YES</u>	<u>8010</u>
<u>PIT 2 Sample 002</u>		<u>YES</u>	<u>8010</u>
<u>PIT 2 26.0 - 26.2</u>		<u>YES</u>	<u>8010</u>
<u>PIT 2 29.1 - 29.3</u>		<u>YES</u>	<u>8010</u>
<u>PIT 2 39.8 - 39.9</u>		<u>YES</u>	<u>8010</u>
<u>PIT 2 44.1 - 44.3</u>		<u>YES</u>	<u>8010 - 8020</u>
<u>PIT 2 57.5 - 57.8</u>		<u>YES</u>	<u>8010</u>
<u>PIT 2 69.9 - 70.1</u>		<u>YES</u>	<u>8010 - 8020</u>
<u>DIESEL TANK 1.3 - 4.5</u>		<u>YES</u>	<u>TPH</u>
<u>DIESEL TANK 7.8 - 7.9</u>		<u>YES</u>	<u>TPH</u>
<u>PIT 3 BH-2 25.0 - 25.2</u>		<u>YES</u>	<u>8010 - 8020</u>
<u>PIT 3 BH-1 30.7 - 30.9</u>		<u>YES</u>	<u>8010 - 8020</u>

Relinquished By EARL CHANLEY - TWPLC

Date 7-22-91

Relinquished To FED-A

Date 7-22-91

Relinquished By \_\_\_\_\_

Date \_\_\_\_\_

Relinquished To \_\_\_\_\_

Date \_\_\_\_\_

Relinquished By \_\_\_\_\_

Date \_\_\_\_\_

Relinquished To \_\_\_\_\_

Date \_\_\_\_\_

Relinquished By \_\_\_\_\_

Date \_\_\_\_\_

Relinquished By \_\_\_\_\_

Date \_\_\_\_\_

Laboratory: ASSAIGAM LABS

Received: CSH

Date 7/23/91

\* MAIL RESULTS TO: LARRY CAMPBELL  
P.O. Box 1717  
ROSWELL N.M. 88202-1717

(505-625-8022)



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Received: 07/24/91

REPORT  
07/31/91 14:20:37

Work Order # 91-07-276

REPORT ENRON/TRANSWESTERN PIPELINE  
TO 6381 N. MAIN STREET  
P.O. BOX 1717  
ROSWELL, NM 88202-1717  
ATTEN LARRY CAMPBELL

PREPARED Assaigai Analytical Labs  
BY 7300 Jefferson NE  
Albuquerque, NM 87109

Syed Rizvi  
CERTIFIED BY

ATTEN SYED RIZVI  
PHONE (505)345-8964

CONTACT LAB MANAGER

CLIENT ENR03 SAMPLES 6  
COMPANY ENRON/TRANSWESTERN PIPELINE  
FACILITY ROSWELL, NEW MEXICO  
ENR03

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

WORK ID STATION #9 7799  
TAKEN \_\_\_\_\_  
TRANS FED X  
TYPE SOIL  
P.O. # \_\_\_\_\_  
INVOICE under separate cover

## SAMPLE IDENTIFICATION

## TEST CODES and NAMES used on this workorder

01	SG 91	28.6 - 28.8
02	SG 86	13.5 - 13.7
03	SG 86	18.7 - 18.9
04	SG 86	24.9 - 25.1
05	SG 86	35.0 - 35.2
06	SG 86	40.5 - 40.7

8010	S	PURGEABLE HALOCARBONS-SOIL
8020		AROMATIC VOLATILE ORGANICS



SAMPLE ID SG 91 28.6 - 28.8

FRACTION 01A

TEST CODE 8010 S

NAME PURGEABLE HALOCARBONS-SOIL

Date & Time Collected not specified

Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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## REPORT

## Results by Sample

Work Order # 91-07-276

Continued From Above

SAMPLE ID SG 91 28.6 - 28.8FRACTION 01A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOILDate & Time Collected not specified Category \_\_\_\_\_

## Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 07/30/91

DATE RUN \_\_\_\_\_ 07/30/91

ANALYST D/R

UNITS \_\_\_\_\_ MG/KG



Received: 07/24/91

**REPORT**

Work Order # 91-07-276

**Results by Sample**

SAMPLE ID SG 91 28.6 - 28.8

FRACTION 01A

TEST CODE 8020

NAME AROMATIC VOLATILE ORGANICS

Date & Time Collected not specified

Category \_\_\_\_\_

PARAMETER	RESULT	DET LIMIT
BENZENE	<u>&lt;0.1</u>	<u>0.1</u>
CHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,4-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,3-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,2-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
ETHYL BENZENE	<u>&lt;0.1</u>	<u>0.1</u>
TOLUENE	<u>&lt;0.1</u>	<u>0.1</u>
XYLENES	<u>&lt;0.1</u>	<u>0.1</u>

**Notes and Definitions for this Report:**

EXTRACTED 07/30/91  
 DATE RUN 07/30/91  
 ANALYST D/R  
 UNITS MG/KG



Received: 07/24/91

## REPORT

Work Order # 91-07-276

## Results by Sample

SAMPLE ID SG 86 13.5 - 13.7FRACTION 02ATEST CODE 8010 SNAME PURGEABLE HALOCARBONS-SOILDate & Time Collected not specified

Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	0.24	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	1.9	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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**REPORT**

Results by Sample

Work Order # 91-07-276

Continued From Above

SAMPLE ID SG 86 13.5 - 13.7

FRACTION 02A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category \_\_\_\_\_

Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 07/30/91

DATE RUN \_\_\_\_\_ 07/30/91

ANALYST D/R

UNITS \_\_\_\_\_ MG/KG



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REPORT  
Results by Sample

Work Order # 91-07-276

SAMPLE ID SG 86 18.7 - 18.9

FRACTION 03A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	0.23	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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## REPORT

Results by Sample

Work Order # 91-07-276

Continued From Above

SAMPLE ID SG 86 18.7 - 18.9FRACTION 03ATEST CODE 8010 SNAME PURGEABLE HALOCARBONS-SOILDate & Time Collected not specified

Category \_\_\_\_\_

## Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 07/30/91

DATE RUN \_\_\_\_\_ 07/30/91

ANALYST D/R

UNITS \_\_\_\_\_ MG/KG





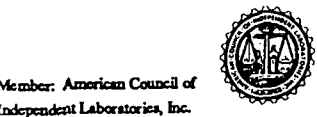
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Received: 07/24/91

REPORT  
Results by Sample

Work Order # 91-07 276

SAMPLE ID SG 86 24.9 - 25.1 FRACTION 04A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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REPORT  
Results by Sample

Work Order # 91-07-276  
Continued From Above

SAMPLE ID SG 86 24.9 - 25.1 FRACTION 04A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category \_\_\_\_\_

Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 07/30/91  
DATE RUN \_\_\_\_\_ 07/30/91  
ANALYST D/R  
UNITS \_\_\_\_\_ MG/KG



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Independent Laboratories, Inc.

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REPORT  
 Results by Sample

Work Order # 91-07-276

SAMPLE ID SG 86 35.0 - 35.2 FRACTION 05A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
 Date & Time Collected not specified Category

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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REPORT  
Results by Sample

Work Order # 91-07-276  
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SAMPLE ID SG 86 35.0 - 35.2

FRACTION 05A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category \_\_\_\_\_

Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 07/30/91  
DATE RUN \_\_\_\_\_ 07/30/91  
ANALYST D/R  
UNITS \_\_\_\_\_ MG/KG



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Independent Laboratories, Inc.

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REPORT  
Results by Sample

Work Order # 91-07-276

SAMPLE ID SG 86 40.5 - 40.7FRACTION 06ATEST CODE 8010 SNAME PURGEABLE HALOCARBONS-SOILDate & Time Collected not specifiedCategory 

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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REPORT  
Results by Sample

Work Order # 91-07-16  
Continued From Above

SAMPLE ID SG 86 40.5 - 40.7

FRACTION 06A TEST CODE 8010 8 NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category \_\_\_\_\_

Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 07/30/91

DATE RUN \_\_\_\_\_ 07/30/91

ANALYST D/R

UNITS \_\_\_\_\_ MG/KG



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Independent Laboratories, Inc.

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Results by Sample

Work Order # 91-07-276

SAMPLE ID SG 86 40.5 - 40.7 FRACTION 06A TEST CODE 8020 NAME AROMATIC VOLATILE ORGANICS  
Date & Time Collected not specified Category \_\_\_\_\_

PARAMETER	RESULT	DET LIMIT
BENZENE	<u>&lt;0.1</u>	<u>0.1</u>
CHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,4-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,3-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,2-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
ETHYL BENZENE	<u>&lt;0.1</u>	<u>0.1</u>
TOLUENE	<u>&lt;0.1</u>	<u>0.1</u>
XYLENES	<u>&lt;0.1</u>	<u>0.1</u>

## Notes and Definitions for this Report:

EXTRACTED 07/30/91  
DATE RUN 07/30/91  
ANALYST D/R  
UNITS MG/KG

TRANSWESTERN PIPELINE COMPANY

CHAIN OF CUSTODY

District: ROSWELL

Date: 7-23-91

Sample Location  
Valve or Receiver No.

Vol. Collect.  
During Flush

Sampler

STATION 9  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

METRIC CORP.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

<u>SAMPLE ID NUMBER</u>	<u>SOLVENT USED</u>	<u>SAMPLE ICED</u>	<u>ANALYSES REQUESTED</u>
<u>SG 91 28.6 - 28.8</u>		<u>YES</u>	<u>8010 - 8020</u>
<u>SG 86 13.5 - 13.7</u>		<u>YES</u>	<u>8010</u>
<u>SG 86 18.7 - 18.9</u>		<u>YES</u>	<u>8010</u>
<u>SG 86 24.9 - 25.1</u>		<u>YES</u>	<u>8010</u>
<u>SG 86 35.0 - 35.2</u>		<u>YES</u>	<u>8010</u>
<u>SG 86 40.5 - 40.7</u>		<u>YES</u>	<u>8010 - 8020</u>
_____			
_____			
_____			

Relinquished By EARL CHANLEY / TWPLC  
Relinquished To FED - A

Date 7-23-91  
Date 7-23-91

Relinquished By \_\_\_\_\_  
Relinquished To \_\_\_\_\_

Date \_\_\_\_\_  
Date \_\_\_\_\_

Relinquished By \_\_\_\_\_  
Relinquished To \_\_\_\_\_

Date \_\_\_\_\_  
Date \_\_\_\_\_

Relinquished By \_\_\_\_\_  
Relinquished By \_\_\_\_\_

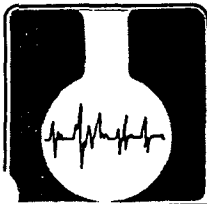
Date \_\_\_\_\_  
Date \_\_\_\_\_

Laboratory: ASSAULT LABS  
Received: [Signature]

Date 7/24/91

\* MAIL RESULTS TO: LARRY CAMPBELL (505-625-8622)  
P.O. Box 1717  
ROSWELL N.M. 89202-1717





# ASSAIGAI ANALYTICAL LABORATORIES

## WORK ORDER 7799

<input type="checkbox"/> HAZARDOUS <input type="checkbox"/> NON-HAZARDOUS		DATE RECEIVED 7/24/11	ESTIMATED COST
CUSTOMER P.O. NUMBER		TIME RECEIVED 9:25	DUE DATE 8/7/11
<b>ACCOUNT INFORMATION</b>			
CUSTOMER'S NAME LAWSON/THASAWESTERN		CONTACT LARRY C. HARRIS	
ADDRESS		PHONE NUMBER	
CITY / STATE / ZIP			
<b>PARTY RESPONSIBLE FOR PAYMENT IF OTHER THAN ABOVE</b>			<b>ACCOUNT STATUS</b>
NAME		CONTACT	
ADDRESS		PHONE NUMBER	
CITY / STATE / ZIP		PAYMENT REC'D. <input checked="" type="checkbox"/> OPEN ACCOUNT <input checked="" type="checkbox"/> CASH <input type="checkbox"/> CHECK NUMBER <input type="checkbox"/>	
SPECIAL BILLING INSTRUCTIONS			
<b>SAMPLE INFORMATION</b>			
TYPE OF SAMPLE	NO. OF SAMPLES	*TURN AROUND TIME	SAMPLE IDENTIFICATION AND / OR SAMPLE SITE
<input type="checkbox"/> WATER <input checked="" type="checkbox"/> SOIL <input type="checkbox"/> OIL <input type="checkbox"/> SLUDGE <input type="checkbox"/> OTHER	6 NO. OF CONTAINERS 6	<input checked="" type="checkbox"/> REGULAR (10 WKG DAYS) <input type="checkbox"/> RUSH (3 DAYS) <input type="checkbox"/> EMERGENCY (STAT) *(SUBJECT TO WORK LOG)	Station 1
SAMPLE DELIVERED BY J. L. Y.		SIGNATURE	DATE 7/24/11
<b>ANALYSIS REQUEST</b>			
WORK DESCRIPTION 3010, 8020			
SPECIAL INSTRUCTIONS			
BILLING: <input type="checkbox"/> PICKUP <input type="checkbox"/> MAIL		LOGGED IN BY C. K.	

# ASSAIGAI

ANALYTICAL LABORATORY

35, INC. • 7300 Jefferson, N.E. • Albuquerque, New Mexico 87109

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Received: 07/30/91

## REPORT

Work Order # 91-07-330

08/09/91 10:27:50

REPORT ENRON/TRANSWESTERN PIPELINE  
TO 6381 N. MAIN STREET  
P.O. BOX 1717  
ROSWELL, NM 88202-1717  
ATTN LARRY CAMPBELL  
  
CLIENT ENR03 SAMPLES 22  
COMPANY ENRON/TRANSWESTERN PIPELINE  
ACTIVITY ROSWELL, NEW MEXICO  
ENR03

PREPARED Assaigai Analytical Labs  
BY 7300 Jefferson NE  
Albuquerque, NM 87109  
  
ATTN SYED RIZVI  
PHONE (505)345-8964

Syed Rizvi  
CERTIFIED BY  
  
CONTACT LAB MANAGER

WORK ID STATION 9-O.S. YARD 7848  
TAKEN 7/29/91  
TRANS FEDERAL EXPRESS  
TYPE SOIL  
P.O. # \_\_\_\_\_  
INVOICE under separate cover

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

### SAMPLE IDENTIFICATION

1 OSBH3  
2 SG349 0-1.8  
3 SG349 2.9-4.6  
4 SG349 9.0-10.0  
5 SG349 14.0-14.8  
6 SG349 20.3-21.3  
7 SG349 25.3-26.3  
8 SG349 29.7-30.4  
9 SG360 0.0-2.5  
0 SG360 4.0-5.0  
1 SG360 9.0-9.9  
2 SG360 14.0-14.7  
3 SG360 19.0-20.0  
4 SG360 24.0-25.0  
5 SG360 29.0-29.4

### TEST CODES and NAMES used on this workorder

8010 S PURGEABLE HALOCARBONS-SOIL  
8020 AROMATIC VOLATILE ORGANICS



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REPORT

08/09/91 10:27:50

Work Order # 91-07-330

**SAMPLE IDENTIFICATION**

6	SG361 0-2.5
7	SG361 4.0-5.0
8	SG361 9.0-10.0
9	SG361 16.0-16.4
0	SG361 19.5-19.8
1	SG361 24.0-25.0
2	SG361 38.9-39.3



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## REPORT

Work Order # 91-07-330

## Results by Sample

SAMPLE ID OSBH3FRACTION 01ATEST CODE 8010\_8NAME PURGEABLE HALOCARBONS-SOILDate & Time Collected 07/29/91

Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLORO BENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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REPORT  
Results by Sample

Work Order # 91-07-330  
Continued From Above

SAMPLE ID OSBH3

FRACTION 01A TEST CODE 8010\_8 NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/29/91 Category \_\_\_\_\_

Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 08/05/91  
DATE RUN \_\_\_\_\_ 08/05/91  
ANALYST D/R  
UNITS \_\_\_\_\_ MG/KG



age 5  
received: 07/30/91

REPORT  
Results by Sample

Work Order # 91-07-330

SAMPLE ID OSBH3FRACTION 01ATEST CODE 8020NAME AROMATIC VOLATILE ORGANICSDate & Time Collected 07/29/91

Category \_\_\_\_\_

PARAMETER	RESULT	DET LIMIT
BENZENE	<u>&lt;0.1</u>	<u>0.1</u>
CHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,4-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,3-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,2-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
ETHYL BENZENE	<u>&lt;0.1</u>	<u>0.1</u>
TOLUENE	<u>&lt;0.1</u>	<u>0.1</u>
XYLENES	<u>&lt;0.1</u>	<u>0.1</u>

## Notes and Definitions for this Report:

EXTRACTED 08/05/91  
DATE RUN 08/05/91  
ANALYST D/R  
UNITS MG/KG



age 6  
Received: 07/30/91

## REPORT Results by Sample

Work Order # 91-07-330

SAMPLE ID SG349 0-1.8

FRACTION 02A

TEST CODE 8010 8

NAME PURGEABLE HALOCARBONS-SOIL

Date & Time Collected 07/29/91

Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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## REPORT

Results by Sample

Work Order # 91-07-330

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SAMPLE ID SG349 0-1.8FRACTION 02ATEST CODE 8010 SNAME PURGEABLE HALOCARBONS-SOILDate & Time Collected 07/29/91

Category \_\_\_\_\_

## Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 08/05/91

DATE RUN \_\_\_\_\_ 08/05/91

ANALYST D/R

UNITS \_\_\_\_\_ MG/KG





age 8  
eceived: 07/30/91

REPORT  
Results by Sample

Work Order # 91-07-330

AMPLE ID SG349 2.9-4.6FRACTION 03ATEST CODE 8010\_8NAME PURGEABLE HALOCARBONS-SOILDate & Time Collected 07/29/91

Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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REPORT  
Results by Sample

Work Order # 91-07-330  
Continued From Above

SAMPLE ID SG349 2.9-4.6 FRACTION 03A TEST CODE 8010 8 NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/29/91 Category \_\_\_\_\_

Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 08/05/91  
DATE RUN \_\_\_\_\_ 08/05/91  
ANALYST D/R  
UNITS \_\_\_\_\_ MG/KG

age 10

Received: 07/30/91

## REPORT

Work Order # 91-07-330

## Results by Sample

SAMPLE ID SG349 9.0-10.0FRACTION 04ATEST CODE 8010 SNAME PURGEABLE HALOCARBONS-SOILDate & Time Collected 07/29/91

Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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REPORT  
Results by Sample

Work Order # 91-07-330  
Continued From Above

SAMPLE ID SG349 9.0-10.0

FRACTION 04A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/29/91 Category \_\_\_\_\_

Notes and Definitions for this Report:

EXTRACTED 08/05/91  
DATE RUN 08/05/91  
ANALYST D/R  
UNITS MG/KG



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## REPORT Results by Sample

Work Order # 91-07-330

SAMPLE ID SG349 14.0-14.8 FRACTION 05A TEST CODE 8010 8 NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/29/91 Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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REPORT  
Results by Sample

Work Order # 91-07-330  
Continued From Above

SAMPLE ID SG349 14.0-14.8 FRACTION 05A TEST CODE 8010 8 NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/29/91 Category \_\_\_\_\_

Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 08/05/91  
DATE RUN \_\_\_\_\_ 08/05/91  
ANALYST D/R  
UNITS \_\_\_\_\_ MG/KG

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## REPORT

Work Order # 91-07-330

## Results by Sample

SAMPLE ID SG349 20.3-21.3FRACTION 06ATEST CODE 8010 SNAME PURGEABLE HALOCARBONS-SOILDate & Time Collected 07/29/91

Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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REPORT  
Results by Sample

Work Order # 91-07-330  
Continued From Above

SAMPLE ID SG349 20.3-21.3

FRACTION 06A TEST CODE 8010\_8 NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/29/91 Category \_\_\_\_\_

Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 08/05/91  
DATE RUN \_\_\_\_\_ 08/05/91  
ANALYST D/R  
UNITS \_\_\_\_\_ MG/KG





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Results by Sample

Work Order # 91-07-330

SAMPLE ID SG349 25.3-26.3FRACTION 07ATEST CODE 8010 SNAME PURGEABLE HALOCARBONS-SOILDate & Time Collected 07/29/91

Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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REPORT  
Results by Sample

Work Order # 91-07-330  
Continued From Above

SAMPLE ID SG349 25.3-26.3

FRACTION 07A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/29/91 Category \_\_\_\_\_

Notes and Definitions for this Report:

EXTRACTED 08/05/91  
DATE RUN 08/05/91  
ANALYST D/R  
UNITS MG/KG



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Results by Sample

Work Order # 91-07-330

SAMPLE ID SG349 29.7-30.4FRACTION 08ATEST CODE 8010 SNAME PURGEABLE HALOCARBONS-SOILDate & Time Collected 07/29/91

Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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## REPORT

## Results by Sample

Work Order # 91-07-330

Continued From Above

SAMPLE ID SG349 29.7-30.4FRACTION 08ATEST CODE 8010 8NAME PURGEABLE HALOCARBONS-SOILDate & Time Collected 07/29/91

Category \_\_\_\_\_

## Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 08/05/91DATE RUN \_\_\_\_\_ 08/05/91ANALYST D/RUNITS \_\_\_\_\_ MG/KG

Age 20  
Received: 07/30/91

REPORT  
Results by Sample

Work Order # 91-07-330

SAMPLE ID SG349 29.7-30.4FRACTION 08ATEST CODE 8020NAME AROMATIC VOLATILE ORGANICSDate & Time Collected 07/29/91

Category \_\_\_\_\_

## PARAMETER

## RESULT

## DET LIMIT

BENZENE

&lt;0.1

0.1

CHLOROBENZENE

&lt;0.1

0.1

1,4-DICHLOROBENZENE

&lt;0.1

0.1

1,3-DICHLOROBENZENE

&lt;0.1

0.1

1,2-DICHLOROBENZENE

&lt;0.1

0.1

ETHYL BENZENE

&lt;0.1

0.1

TOLUENE

&lt;0.1

0.1

XYLENES

&lt;0.1

0.1

## Notes and Definitions for this Report:

EXTRACTED 08/05/91DATE RUN 08/05/91ANALYST D/RUNITS MG/KG

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Results by Sample

Work Order # 91-07-330

SAMPLE ID SG360 0.0-2.5FRACTION 09A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/29/91 Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLORO BENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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Received: 07/30/91**REPORT**  
**Results by Sample**Work Order # 91-07-330  
Continued From AboveSAMPLE ID SG360 0.0-2.5FRACTION 09A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/29/91 Category \_\_\_\_\_

## Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 08/05/91  
DATE RUN \_\_\_\_\_ 08/05/91  
ANALYST D/R  
UNITS \_\_\_\_\_ MG/KG

Age 23  
Received: 07/30/91

REPORT  
Results by Sample

Work Order # 91-07-330

SAMPLE ID SG360 4.0-5.0 FRACTION 10A TEST CODE 8010 8 NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/29/91 Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1





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Results by SampleWork Order # 91-07-330  
Continued From AboveSAMPLE ID SG360 4.0-5.0FRACTION 10A TEST CODE 8010 8 NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/29/91 Category \_\_\_\_\_

## Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 08/05/91  
DATE RUN \_\_\_\_\_ 08/05/91  
ANALYST D/R  
UNITS \_\_\_\_\_ MG/KG

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## REPORT Results by Sample

Work Order # 91-07-330

SAMPLE ID SG360 9.0-9.9

FRACTION 11A

TEST CODE 8010 8

NAME PURGEABLE HALOCARBONS-SOIL

Date & Time Collected 07/29/91

Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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**REPORT**

**Results by Sample**

Work Order # 91-07-330

Continued From Above

SAMPLE ID SG360 9.0-9.9

FRACTION 11A

TEST CODE 8010 S

NAME PURGEABLE HALOCARBONS-SOIL

Date & Time Collected 07/29/91

Category \_\_\_\_\_

**Notes and Definitions for this Report:**

EXTRACTED \_\_\_\_\_ 08/05/91

DATE RUN \_\_\_\_\_ 08/05/91

ANALYST D/R

UNITS \_\_\_\_\_ MG/KG



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REPORT  
Results by Sample

Work Order # 91-07-330

SAMPLE ID SG360 14.0-14.7 FRACTION 12A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/29/91 Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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REPORT  
Results by Sample

Work Order # 91-07-00  
Continued From Above

SAMPLE ID SG360 14.0-14.7

FRACTION 12A TEST CODE 8010 8 NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/29/91 Category \_\_\_\_\_

Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 08/06/91  
DATE RUN \_\_\_\_\_ 08/06/91  
ANALYST D/R  
UNITS \_\_\_\_\_ MG/KG



Member: American Council of  
Independent Laboratories, Inc.

SAMPLE ID SG360 19.0-20.0

FRACTION 13A

TEST CODE 8010 S

NAME PURGEABLE HALOCARBONS-SOIL

Date & Time Collected 07/29/91

Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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**REPORT****Results by Sample**

Work Order # 91-07-030

Continued From Above

SAMPLE ID SG360 19.0-20.0FRACTION 13ATEST CODE 8010 8NAME PURGEABLE HALOCARBONS-SOILDate & Time Collected 07/29/91

Category \_\_\_\_\_

**Notes and Definitions for this Report:**

EXTRACTED \_\_\_\_\_ 08/06/91

DATE RUN \_\_\_\_\_ 08/06/91

ANALYST D/R

UNITS \_\_\_\_\_ MG/KG



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## REPORT Results by Sample

Work Order # 91-07-330

SAMPLE ID SG360 24.0-25.0 FRACTION 14A TEST CODE 8010 8 NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/29/91 Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1





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**REPORT****Results by Sample**

Work Order # 91-07-550

Continued From Above

SAMPLE ID SG360 24.0-25.0FRACTION 14ATEST CODE 8010\_8NAME PURGEABLE HALOCARBONS-SOILDate & Time Collected 07/29/91

Category \_\_\_\_\_

**Notes and Definitions for this Report:**

EXTRACTED \_\_\_\_\_ 08/06/91

DATE RUN \_\_\_\_\_ 08/06/91

ANALYST D/R

UNITS \_\_\_\_\_ MG/KG



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## REPORT

Work Order # 91-07-000

## Results by Sample

SAMPLE ID SG360 29.0-29.4

FRACTION 15A

TEST CODE 8010 8

NAME PURGEABLE HALOCARBONS-SOIL

Date & Time Collected 07/29/91

Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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## REPORT

## Results by Sample

Work Order # 91-07-530

Continued From Above

SAMPLE ID SG360 29.0-29.4FRACTION 15A TEST CODE 8010\_8 NAME PURGEABLE HALOCARBONS-SOILDate & Time Collected 07/29/91 Category \_\_\_\_\_

## Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 08/06/91DATE RUN \_\_\_\_\_ 08/06/91ANALYST D/RUNITS \_\_\_\_\_ MG/KG

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**REPORT**

Work Order # 91-07-330

**Results by Sample**SAMPLE ID SG361 0-2.5FRACTION 16ATEST CODE 8010 SNAME PURGEABLE HALOCARBONS-SOILDate & Time Collected 07/29/91

Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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REPORT  
Results by Sample

Work Order # 91-07-330  
Continued From Above

SAMPLE ID SG361 0-2.5 FRACTION 16A TEST CODE 8010 8 NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/29/91 Category \_\_\_\_\_

Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 08/06/91  
DATE RUN \_\_\_\_\_ 08/06/91  
ANALYST D/R  
UNITS \_\_\_\_\_ MG/KG



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## REPORT Results by Sample

Work Order # 91-07-330

SAMPLE ID SG361 4.0-5.0 FRACTION 17A TEST CODE 8010 8 NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/29/91 Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLORO BENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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## REPORT

Results by Sample

Work Order # 91-07-330

Continued From Above

SAMPLE ID SG361 4.0-5.0

FRACTION 17A TEST CODE 8010 8 NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/29/91 Category \_\_\_\_\_

### Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 08/06/91

DATE RUN \_\_\_\_\_ 08/06/91

ANALYST D/R

UNITS \_\_\_\_\_ MG/KG



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## REPORT

Work Order # 91-07-530

## Results by Sample

SAMPLE ID SG361 9.0-10.0

FRACTION 18A

TEST CODE 8010 8

NAME PURGEABLE HALOCARBONS-SOIL

Date & Time Collected 07/29/91

Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1





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REPORT  
Results by Sample

Work Order # 91-07-330  
Continued From Above

SAMPLE ID SG361 9.0-10.0 FRACTION 18A TEST CODE 8010\_8 NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/29/91 Category \_\_\_\_\_

Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 08/06/91  
DATE RUN \_\_\_\_\_ 08/06/91  
ANALYST D/R  
UNITS \_\_\_\_\_ MG/KG



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REPORT  
Results by Sample

Work Order # 91-07-330

SAMPLE ID SG361 16.0-16.4 FRACTION 19A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/29/91 Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1

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## REPORT

## Results by Sample

Work Order # 91-07-330

Continued From Above

SAMPLE ID SG361 16.0-16.4FRACTION 19ATEST CODE 8010 SNAME PURGEABLE HALOCARBONS-SOILDate & Time Collected 07/29/91

Category \_\_\_\_\_

## Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 08/06/91

DATE RUN \_\_\_\_\_ 08/06/91

ANALYST D/R

UNITS \_\_\_\_\_ MG/KG



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## REPORT

Work Order # 91-07-330

## Results by Sample

SAMPLE ID SG361 19.5-19.8FRACTION 20ATEST CODE 8010 8NAME PURGEABLE HALOCARBONS-SOILDate & Time Collected 07/29/91

Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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**REPORT****Results by Sample**

Work Order # 91-07-330

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SAMPLE ID SG361 19.5-19.8FRACTION 20ATEST CODE 8010 SNAME PURGEABLE HALOCARBONS-SOILDate & Time Collected 07/29/91

Category \_\_\_\_\_

**Notes and Definitions for this Report:**

EXTRACTED \_\_\_\_\_ 08/06/91

DATE RUN \_\_\_\_\_ 08/06/91

ANALYST D/R

UNITS \_\_\_\_\_ MG/KG



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REPORT  
Results by Sample

Work Order # 91-07-530

SAMPLE ID SG361 24.0-25.0

FRACTION 21A TEST CODE 8010 8 NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/29/91 Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLORO BENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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**REPORT**  
**Results by Sample**

Work Order # 91-07-530  
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SAMPLE ID SG361 24.0-25.0 FRACTION 21A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/29/91 Category \_\_\_\_\_

Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 08/06/91  
DATE RUN \_\_\_\_\_ 08/06/91  
ANALYST D/R  
UNITS \_\_\_\_\_ MG/KG



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## REPORT Results by Sample

Work Order # 91-07-330

SAMPLE ID SG361 38.9-39.3 FRACTION 22A TEST CODE 8010 8 NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/29/91 Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1





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Received: 07/30/91

## REPORT

Results by Sample

Work Order # 91-07-330

Continued From Above

SAMPLE ID SG361 38.9-39.3FRACTION 22A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/29/91 Category \_\_\_\_\_

## Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 08/06/91

DATE RUN \_\_\_\_\_ 08/06/91

ANALYST D/R

UNITS \_\_\_\_\_ MG/KG



TRANSWESTERN PIPELINE COMPANY

CHAIN OF CUSTODY

District: ROSWELL

Date: 7-29-91

Sample Location  
Valve or Receiver No.

Vol. Collect.  
During Flush

Sampler

STATION 9 - O.S. YARD

METRIC CORP

<u>SAMPLE ID NUMBER</u>	<u>SOLVENT USED</u>	<u>SAMPLE ICED</u>	<u>ANALYSES REQUESTED</u>
OSRM3		YES	Fe10, Pb20
SG349 0-1.8		YES	Pb10, <del>Fe10</del>
SG349 2.9-4.6		YES	Pb10
SG349 9.0-10.0		YES	Pb10
SG349 14.0-14.8		YES	Pb10
SG349 20.3-21.3		YES	Pb10
SG349 25.3-26.3		YES	Pb10
SG349 29.7-30.4		YES	Pb10, Pb20
SG360 0.0-2.5		YES	Pb10
SG360 4.0-5.0		YES	Pb10
SG360 9.0-9.9		YES	Pb10

Relinquished By EARL CHANLEY - TWPC CO.

Date 7-29-91

Relinquished To FCD-X

Date 7-29-91

Relinquished By \_\_\_\_\_

Date \_\_\_\_\_

Relinquished To \_\_\_\_\_

Date \_\_\_\_\_

Relinquished By \_\_\_\_\_

Date \_\_\_\_\_

Relinquished To \_\_\_\_\_

Date \_\_\_\_\_

Relinquished By \_\_\_\_\_

Date \_\_\_\_\_

Relinquished By \_\_\_\_\_

Date \_\_\_\_\_

Laboratory: ASSAISI LABS

Received: by BURCK

Date 7/30/91

MAIL RESULTS TO: LARRY CAMPBELL

P.O. Box 1717

ROSWELL, N.MEX. 88202-1717

(505-625-8022)

Page 1  
Received: 07/26/91

REPORT  
08/05/91 09:26:18

Work Order # 91-07-299

REPORT ENRON/TRANSWESTERN PIPELINE  
TO 6381 N. MAIN STREET  
P.O. BOX 1717  
ROSWELL, NM 88202-1717  
ATTEN LARRY CAMPBELL  
  
CLIENT ENR03 SAMPLES 8  
COMPANY ENRON/TRANSWESTERN PIPELINE  
FACILITY ROSWELL, NEW MEXICO  
ENR03

PREPARED Assaigai Analytical Labs  
BY 7300 Jefferson NE  
Albuquerque, NM 87109  
  
ATTEN SYED RIZVI  
PHONE (505)345-8964

Syed Rizvi  
CERTIFIED BY  
  
CONTACT LAB MANAGER

WORK ID STATION 9 7821  
TAKEN  
TRANS FED X  
TYPE SOIL  
P.O. #  
INVOICE under separate cover

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

SAMPLE IDENTIFICATION	
01	<u>OSBH1 18.9 - 19.1</u>
02	<u>OSBH1 34.3 - 34.5</u>
03	<u>OSBH2 9.9 - 10.1</u>
04	<u>OSBH2 22.5 - 22.6</u>
05	<u>OSBH2 31.1 - 31.3</u>
06	<u>OSBH2 41.8 - 42.0</u>
07	<u>OSBH2 55.2 - 55.4</u>
08	<u>OSBH2 69.0 - 69.2</u>

TEST CODES and NAMES used on this workorder  
8010 S PURGEABLE HALOCARBONS-SOIL

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## REPORT

## Results by Sample

Work Order # 91-07 99

Continued From Above

SAMPLE ID OSBH1 18.9 - 19.1FRACTION 01A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category \_\_\_\_\_

## Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 08/01/91

DATE RUN \_\_\_\_\_ 08/01/91

ANALYST D/RUNITS \_\_\_\_\_ MG/KG

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Received: 07/26/91

REPORT  
Results by Sample

Work Order # 91-07-299

SAMPLE ID OSBH1 34.3 - 34.5 FRACTION 02A TEST CODE 8010 8 NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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**REPORT**  
**Results by Sample**

Work Order # 91-07-299  
Continued From Above

SAMPLE ID OSBH1 34.3 - 34.5

FRACTION 02A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category \_\_\_\_\_

Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 08/01/91  
DATE RUN \_\_\_\_\_ 08/01/91  
ANALYST D/R  
UNITS \_\_\_\_\_ MG/KG



Results by Sample

SAMPLE ID OSBH2 9.9 - 10.1

FRACTION 03A

TEST CODE 8010 S

NAME PURGEABLE HALOCARBONS-SOIL

Date & Time Collected not specified

Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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**REPORT**  
**Results by Sample**

Work Order # 91-07-299  
Continued From Above

SAMPLE ID OSBH2 9.9 - 10.1 FRACTION 03A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category \_\_\_\_\_

Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 08/01/91  
DATE RUN \_\_\_\_\_ 08/01/91  
ANALYST D/R  
UNITS \_\_\_\_\_ MG/KG





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Received: 07/26/91

## REPORT

Work Order # 91-07 499

## Results by Sample

SAMPLE ID OSBH2 22.5 - 22.6FRACTION 04ATEST CODE 8010\_8 NAME PURGEABLE HALOCARBONS-SOILDate & Time Collected not specified

Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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REPORT  
Results by Sample

Work Order # 91-07-99  
Continued From Above

SAMPLE ID OSBH2 22.5 - 22.6

FRACTION 04A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category \_\_\_\_\_

Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 08/01/91  
DATE RUN \_\_\_\_\_ 08/01/91  
ANALYST D/R  
UNITS \_\_\_\_\_ MG/KG



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REPORT  
Results by Sample

Work Order # 91-07-299

SAMPLE ID OSBH2 31.1 - 31.3

FRACTION 05A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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## REPORT

## Results by Sample

Work Order # 91-07-99

Continued From Above

SAMPLE ID OSBH2 31.1 - 31.3FRACTION 05A TEST CODE 8010 8 NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category \_\_\_\_\_

## Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 08/01/91

DATE RUN \_\_\_\_\_ 08/01/91

ANALYST D/R

UNITS \_\_\_\_\_ MG/KG



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REPORT  
Results by Sample

Work Order # 91-07-299

SAMPLE ID OSBH2 41.8 - 42.0 FRACTION 06A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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REPORT  
Results by Sample

Work Order # 91-07-299  
Continued From Above

SAMPLE ID OSBH2 41.8 - 42.0

FRACTION 06A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category \_\_\_\_\_

Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 08/01/91  
DATE RUN \_\_\_\_\_ 08/01/91  
ANALYST D/R  
UNITS \_\_\_\_\_ MG/KG



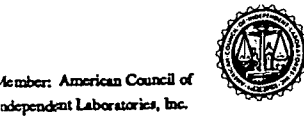
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REPORT  
Results by Sample

Work Order # 91-07-299

SAMPLE ID OSBH2 55.2 - 55.4 FRACTION 07A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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REPORT  
Results by Sample

Work Order # 91-07-99  
Continued From Above

SAMPLE ID OSBH2 55.2 - 55.4 FRACTION 07A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category \_\_\_\_\_

Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 08/01/91  
DATE RUN \_\_\_\_\_ 08/01/91  
ANALYST D/R  
UNITS \_\_\_\_\_ MG/KG



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Received: 07/26/91

## REPORT

Work Order # 91-07-299

## Results by Sample

SAMPLE ID OSBH2 69.0 - 69.2FRACTION 08ATEST CODE 8010 SNAME PURGEABLE HALOCARBONS-SOILDate & Time Collected not specified

Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1

Member: American Council of  
Independent Laboratories, Inc.

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## REPORT

## Results by Sample

Work Order # 91-07-299

Continued From Above

SAMPLE ID OSBH2 69.0 - 69.2FRACTION 08A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category \_\_\_\_\_

## Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 08/01/91

DATE RUN \_\_\_\_\_ 08/01/91

ANALYST D/R

UNITS \_\_\_\_\_ MG/KG



TRANSWESTERN PIPELINE COMPANY

CHAIN OF CUSTODY

District: ROSWELL

Date: 7-25-91

Sample Location  
Valve or Receiver No.

Vol. Collect.  
During Flush

Sampler

STATION 9

\_\_\_\_\_

METRIC CORP.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

<u>SAMPLE ID NUMBER</u>	<u>SOLVENT USED</u>	<u>SAMPLE ICED</u>	<u>ANALYSES REQUESTED</u>
<u>OSBH1 18.9-19.1</u>		<u>YES</u>	<u>8010</u>
<u>OSBH1 39.3-39.5</u>		<u>YES</u>	<u>8010</u>
<u>OSBH2 9.9-10.1</u>		<u>YES</u>	<u>8010</u>
<u>OSBH2 22.5-22.6</u>		<u>YES</u>	<u>8010</u>
<u>OSBH2 31.1-31.3</u>		<u>YES</u>	<u>8010</u>
<u>OSBH2 41.8-42.0</u>		<u>YES</u>	<u>8010</u>
<u>OSBH2 55.2-55.4</u>		<u>YES</u>	<u>8010</u>
<u>OSBH2 69.0-69.2</u>		<u>YES</u>	<u>8010</u>

Relinquished By EARL CHANLEY / TWPLCO.

Date 7-25-91

Relinquished To FRO-X

Date 7-25-91

Relinquished By \_\_\_\_\_

Date \_\_\_\_\_

Relinquished To \_\_\_\_\_

Date \_\_\_\_\_

Relinquished By \_\_\_\_\_

Date \_\_\_\_\_

Relinquished To \_\_\_\_\_

Date \_\_\_\_\_

Relinquished By \_\_\_\_\_

Date \_\_\_\_\_

Relinquished By \_\_\_\_\_

Date \_\_\_\_\_

Laboratory: \_\_\_\_\_

Received: \_\_\_\_\_

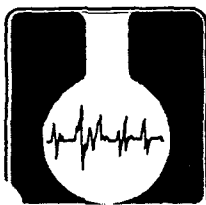
Date \_\_\_\_\_

MAIL RESULTS TO: LARRY CAMPBELL

(505-625-1022)

P.O. Box 1717

ROSWELL NM 88202-1717



# ASSAIGAI ANALYTICAL LABORATORIES

WORK ORDER  
7821

<input type="checkbox"/> HAZARDOUS <input type="checkbox"/> NON-HAZARDOUS		DATE RECEIVED 7/26/91	ESTIMATED COST
CUSTOMER P.O. NUMBER		TIME RECEIVED 9:30	DUE DATE 8/09/91
<b>ACCOUNT INFORMATION</b>			
CUSTOMER'S NAME Enron		CONTACT Kary	
ADDRESS		PHONE NUMBER	
CITY / STATE / ZIP Houston			
<b>PARTY RESPONSIBLE FOR PAYMENT IF OTHER THAN ABOVE</b>			<b>ACCOUNT STATUS</b>
NAME		CONTACT	
ADDRESS		PHONE NUMBER	
CITY / STATE / ZIP		PAYMENT REC'D. <input checked="" type="checkbox"/> OPEN ACCOUNT <input checked="" type="checkbox"/> CASH <input type="checkbox"/> CHECK NUMBER <input type="checkbox"/>	
SPECIAL BILLING INSTRUCTIONS			
<b>SAMPLE INFORMATION</b>			
TYPE OF SAMPLE	NO. OF SAMPLES	*TURN AROUND TIME	SAMPLE IDENTIFICATION AND / OR SAMPLE SITE
<input type="checkbox"/> WATER	8	<input checked="" type="checkbox"/> REGULAR (10 WKG DAYS)	Station 9
<input checked="" type="checkbox"/> SOIL		<input type="checkbox"/> RUSH (3 DAYS)	
<input type="checkbox"/> OIL	NO. OF CONTAINERS	<input type="checkbox"/> EMERGENCY (STAT)	
<input type="checkbox"/> SLUDGE	8		
<input type="checkbox"/> OTHER			
SAMPLE DELIVERED BY FEDX		SIGNATURE DATE 7/26/91	
<b>ANALYSIS REQUEST</b>			
WORK DESCRIPTION SOIL			
SPECIAL INSTRUCTIONS			
BILLING: <input type="checkbox"/> PICKUP <input type="checkbox"/> MAIL		LOGGED IN BY SK	

Assaigai Analytical Labs  
7300 Jefferson NE  
Albuquerque, NM 87109

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

ENRON/TRANSWESTERN PIPELINE  
6381 N. MAIN STREET  
P.O. BOX 1717  
ROSWELL, NM 88202-1717  
Attn: LARRY CAMPBELL  
Invoice Number:

Order #: 91-08-024  
Date: 08/16/91 14:31  
Work ID: STATION 9 - O.S. YARD 7885  
Date Received: 08/02/91  
Date Completed: 08/16/91

SAMPLE IDENTIFICATION

<u>Sample Number</u>	<u>Sample Description</u>
01	OSBH3 44.1-44.3
03	OSBH4 27.5 - 27.7
05	OSBH5 19.6 - 19.9
07	OSBH6 13.6 - 13.8
09	OSBH6 52.6 - 52.8
11	OSBH7 22.1 - 22.3

<u>Sample Number</u>	<u>Sample Description</u>
02	OSBH3 54.8 - 55.0
04	OSBH5 14.0 - 14.2
06	OSBH5 23.4 - 23.6
08	OSBH6 47.0 - 47.2
10	OSBH6 70.0 - 71.0



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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*

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Certified By  
SYED N. RIZVI



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TEST RESULTS BY SAMPLE

Sample: 01A OSBH3 44.1-44.3

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
PURGEABLE HALOCARBONS-SOIL		0.1			
BROMODICHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
BROMOFORM	<0.1	0.1	MG/KG	08/14/91	D/R
BROMOMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
CARBON TETRACHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROFORM	<0.1	0.1	MG/KG	08/14/91	D/R
2-CHLOROETHYL VINYL ETHER	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
DIBROMOCHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,3-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,4-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
DICHLORODIFLUOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1-DICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1-DICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
trans-1,2-DICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROPROPANE	<0.1	0.1	MG/KG	08/14/91	D/R
cis-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
trans-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/14/91	D/R



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
METHYLENE CHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,1-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,2-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
TETRACHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
TRICHLOROFLUOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
TRICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
VINYL CHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R

Sample: 02A OSBH3 54.8 - 55.0

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
AROMATIC VOLATILE ORGANICS		0.1			
BENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,4-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,3-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
ETHYL BENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
TOLUENE	<0.1	0.1	MG/KG	08/14/91	D/R
XYLENES	<0.1	0.1	MG/KG	08/14/91	D/R
PURGEABLE HALOCARBONS-SOIL		0.1			
BROMODICHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
BROMOFORM	<0.1	0.1	MG/KG	08/14/91	D/R
BROMOMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
CARBON TETRACHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R





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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
CHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROFORM	<0.1	0.1	MG/KG	08/14/91	D/R
2-CHLOROETHYL VINYL ETHER	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
DIBROMOCHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,3-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,4-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
DICHLORODIFLUOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1-DICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1-DICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
trans-1,2-DICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROPROPANE	<0.1	0.1	MG/KG	08/14/91	D/R
cis-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
trans-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/14/91	D/R
METHYLENE CHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,1-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,2-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
TETRACHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
TRICHLOROFLUOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
TRICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
VINYL CHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R



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Sample: 03A OSBH4 27.5 - 27.7

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
AROMATIC VOLATILE ORGANICS		0.1			
BENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,4-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,3-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
ETHYL BENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
TOLUENE	<0.1	0.1	MG/KG	08/14/91	D/R
XYLENES	<0.1	0.1	MG/KG	08/14/91	D/R
PURGEABLE HALOCARBONS-SOIL		0.1			
BROMODICHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
BROMOFORM	<0.1	0.1	MG/KG	08/14/91	D/R
BROMOMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
CARBON TETRACHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROFORM	<0.1	0.1	MG/KG	08/14/91	D/R
2-CHLOROETHYL VINYL ETHER	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
DIBROMOCHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,3-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,4-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
DICHLORODIFLUOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1-DICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
1,2-DICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1-DICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
trans-1,2-DICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROPROPANE	<0.1	0.1	MG/KG	08/14/91	D/R
cis-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
trans-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/14/91	D/R
METHYLENE CHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,1-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,2-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
TETRACHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
TRICHLOROFLUOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
TRICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
VINYL CHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R

Sample: 04A OSBH5 14.0 - 14.2

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
PURGEABLE HALOCARBONS-SOIL		0.1			
BROMODICHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
BROMOFORM	<0.1	0.1	MG/KG	08/14/91	D/R
BROMOMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
CARBON TETRACHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROFORM	<0.1	0.1	MG/KG	08/14/91	D/R



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
2-CHLOROETHYL VINYL ETHER	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
DIBROMOCHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,3-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,4-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
DICHLORODIFLUOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1-DICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1-DICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
trans-1,2-DICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROPROPANE	<0.1	0.1	MG/KG	08/14/91	D/R
cis-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
trans-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/14/91	D/R
METHYLENE CHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,1-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,2-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
TETRACHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
TRICHLOROFLUOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
TRICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
VINYL CHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R



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Sample: 05A OSBH5 19.6 - 19.9

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
PURGEABLE HALOCARBONS-SOIL		0.1			
BROMODICHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
BROMOFORM	<0.1	0.1	MG/KG	08/14/91	D/R
BROMOMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
CARBON TETRACHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROFORM	<0.1	0.1	MG/KG	08/14/91	D/R
2-CHLOROETHYL VINYL ETHER	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
DIBROMOCHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,3-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,4-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
DICHLORODIFLUOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1-DICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1-DICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
trans-1,2-DICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROPROPANE	<0.1	0.1	MG/KG	08/14/91	D/R
cis-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
trans-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/14/91	D/R
METHYLENE CHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,1-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
1,1,2-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
TETRACHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
TRICHLOROFLUOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
TRICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
VINYL CHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R

Sample: 06A OSBH5 23.4 - 23.6

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
AROMATIC VOLATILE ORGANICS		0.1			
BENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,4-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,3-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
ETHYL BENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
TOLUENE	<0.1	0.1	MG/KG	08/14/91	D/R
XYLENES	<0.1	0.1	MG/KG	08/14/91	D/R
PURGEABLE HALOCARBONS-SOIL		0.1			
BROMODICHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
BROMOFORM	<0.1	0.1	MG/KG	08/14/91	D/R
BROMOMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
CARBON TETRACHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROFORM	<0.1	0.1	MG/KG	08/14/91	D/R



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
2-CHLOROETHYL VINYL ETHER	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
DIBROMOCHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,3-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,4-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
DICHLORODIFLUOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1-DICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1-DICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
trans-1,2-DICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROPROPANE	<0.1	0.1	MG/KG	08/14/91	D/R
cis-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
trans-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/14/91	D/R
METHYLENE CHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,1-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,2-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
TETRACHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
TRICHLOROFLUOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
TRICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
VINYL CHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R



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Sample: 07A OSBH6 13.6 - 13.8

Collected:

Test Description	Result	Limit	Units	Analyzed	By
PURGEABLE HALOCARBONS-SOIL		0.1			
BROMODICHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
BROMOFORM	<0.1	0.1	MG/KG	08/14/91	D/R
BROMOMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
CARBON TETRACHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROFORM	<0.1	0.1	MG/KG	08/14/91	D/R
2-CHLOROETHYL VINYL ETHER	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
DIBROMOCHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,3-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,4-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
DICHLORODIFLUOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1-DICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1-DICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
trans-1,2-DICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROPROPANE	<0.1	0.1	MG/KG	08/14/91	D/R
cis-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
trans-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/14/91	D/R
METHYLENE CHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,1-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
1,1,2-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
TETRACHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
TRICHLOROFLUOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
TRICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
VINYL CHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R

Sample: 08A OSBH6 47.0 - 47.2

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
PURGEABLE HALOCARBONS-SOIL		0.1			
BROMODICHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
BROMOFORM	<0.1	0.1	MG/KG	08/14/91	D/R
BROMOMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
CARBON TETRACHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROFORM	<0.1	0.1	MG/KG	08/14/91	D/R
2-CHLOROETHYL VINYL ETHER	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
DIBROMOCHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,3-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,4-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
DICHLORODIFLUOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1-DICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R



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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-DICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
trans-1,2-DICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROPROPANE	<0.1	0.1	MG/KG	08/14/91	D/R
cis-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
trans-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/14/91	D/R
METHYLENE CHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,1-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,2-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
TETRACHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
TRICHLOROFLUOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
TRICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
VINYL CHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R

Sample: 09A OSBH6 52.6 - 52.8

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
PURGEABLE HALOCARBONS-SOIL		0.1			
BROMODICHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
BROMOFORM	<0.1	0.1	MG/KG	08/14/91	D/R
BROMOMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
CARBON TETRACHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROFORM	<0.1	0.1	MG/KG	08/14/91	D/R
2-CHLOROETHYL VINYL ETHER	<0.1	0.1	MG/KG	08/14/91	D/R



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
CHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
DIBROMOCHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,3-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,4-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
DICHLORODIFLUOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1-DICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1-DICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
trans-1,2-DICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROPROPANE	<0.1	0.1	MG/KG	08/14/91	D/R
cis-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
trans-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/14/91	D/R
METHYLENE CHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,1-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,2-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
TETRACHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
TRICHLOROFLUOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
TRICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
VINYL CHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R

Sample: 10A OSBH6 70.0 - 71.0

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
AROMATIC VOLATILE ORGANICS		0.1			



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
BENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,4-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,3-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
ETHYL BENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
TOLUENE	<0.1	0.1	MG/KG	08/14/91	D/R
XYLENES	<0.1	0.1	MG/KG	08/14/91	D/R
PURGEABLE HALOCARBONS-SOIL		0.1			
BROMODICHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
BROMOFORM	<0.1	0.1	MG/KG	08/14/91	D/R
BROMOMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
CARBON TETRACHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROFORM	<0.1	0.1	MG/KG	08/14/91	D/R
2-CHLOROETHYL VINYL ETHER	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
DIBROMOCHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,3-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,4-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
DICHLORODIFLUOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1-DICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1-DICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
trans-1,2-DICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROPROPANE	<0.1	0.1	MG/KG	08/14/91	D/R



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
cis-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
trans-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/14/91	D/R
METHYLENE CHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,1-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,2-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
TETRACHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
TRICHLOROFLUOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
TRICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
VINYL CHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R

Sample: 11A OSBH7 22.1 - 22.3

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
AROMATIC VOLATILE ORGANICS		0.1			
BENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,4-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,3-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
ETHYL BENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
TOLUENE	<0.1	0.1	MG/KG	08/14/91	D/R
XYLENES	<0.1	0.1	MG/KG	08/14/91	D/R
PURGEABLE HALOCARBONS-SOIL		0.1			
BROMODICHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
BROMOFORM	<0.1	0.1	MG/KG	08/14/91	D/R

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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
BROMOMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
CARBON TETRACHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROFORM	<0.1	0.1	MG/KG	08/14/91	D/R
2-CHLOROETHYL VINYL ETHER	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
DIBROMOCHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,3-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,4-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
DICHLORODIFLUOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1-DICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1-DICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
trans-1,2-DICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROPROPANE	<0.1	0.1	MG/KG	08/14/91	D/R
cis-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
trans-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/14/91	D/R
METHYLENE CHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,1-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,2-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
TETRACHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
TRICHLOROFLUOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
TRICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
VINYL CHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R

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Order # 91-08-024  
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TEST METHODOLOGIES

8010\_S = USEPA SW-846 METHOD # 8010

8020 = USEPA SW-846 METHOD # 8020



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TRANSWESTERN PIPELINE COMPANY

CHAIN OF CUSTODY

District: ROSWELL

Date: 8-1-91

Sample Location  
Valve or Receiver No.

Vol. Collect.  
During Flush

Sampler

STATION 9 - O.S. YARD

METRIC CORP

<u>SAMPLE ID NUMBER</u>	<u>SOLVENT USED</u>	<u>SAMPLE ICED</u>	<u>ANALYSES REQUESTED</u>
<u>OSBH3 44.1-44.3</u>		<u>YES</u>	<u>8010</u>
<u>OSBH3 54.8-55.0</u>		<u>YES</u>	<u>8010 - 8020</u>
<u>OSBH4 27.5-27.7</u>		<u>YES</u>	<u>8010 - 8020</u>
<u>OSBH5 19.0-19.2</u>		<u>YES</u>	<u>8010</u>
<u>OSBH5 19.6-19.9</u>		<u>YES</u>	<u>8010</u>
<u>OSBH5 22.4-22.6</u>		<u>YES</u>	<u>8010 - 8020</u>
<u>OSBH6 13.6-13.8</u>		<u>YES</u>	<u>8010</u>
<u>OSBH6 47.8-47.2</u>		<u>YES</u>	<u>8010</u>
<u>OSBH6 52.6-52.8</u>		<u>YES</u>	<u>8010</u>
<u>OSBH6 70.0-71.0</u>		<u>YES</u>	<u>8010 - 8020</u>
<u>OSBH7 22.1-22.3</u>		<u>YES</u>	<u>8010 - 8020</u>

Relinquished By EARL SHANLEY - TWPL CO.  
Relinquished To FED-X

Date 8-1-91  
Date 8-1-91

Relinquished By \_\_\_\_\_  
Relinquished To \_\_\_\_\_

Date \_\_\_\_\_  
Date \_\_\_\_\_

Relinquished By \_\_\_\_\_  
Relinquished To \_\_\_\_\_

Date \_\_\_\_\_  
Date \_\_\_\_\_

Relinquished By \_\_\_\_\_  
Relinquished By \_\_\_\_\_

Date \_\_\_\_\_  
Date \_\_\_\_\_

Laboratory: Assaiu Labs.  
Received: C. J. King

Date 8/2/91





# ASSAIGAI ANALYTICAL LABORATORIES

## WORK ORDER 7885

<input type="checkbox"/> HAZARDOUS <input type="checkbox"/> NON-HAZARDOUS		DATE RECEIVED 8/2/91	ESTIMATED COST
CUSTOMER P.O. NUMBER		TIME RECEIVED 10:00	DUE DATE 8/16/91
<b>ACCOUNT INFORMATION</b>			
CUSTOMER'S NAME Enron / Transwestern		CONTACT Larry Campbell	
ADDRESS		PHONE NUMBER	
CITY / STATE / ZIP			
<b>PARTY RESPONSIBLE FOR PAYMENT IF OTHER THAN ABOVE</b>			<b>ACCOUNT STATUS</b>
NAME		CONTACT	
ADDRESS		PHONE NUMBER	
CITY / STATE / ZIP		PAYMENT REC'D. <input checked="" type="checkbox"/> OPEN ACCOUNT <input checked="" type="checkbox"/> CASH <input type="checkbox"/> CHECK NUMBER <input type="checkbox"/>	
SPECIAL BILLING INSTRUCTIONS			
<b>SAMPLE INFORMATION</b>			
TYPE OF SAMPLE	NO. OF SAMPLES	*TURN AROUND TIME	SAMPLE IDENTIFICATION AND / OR SAMPLE SITE
<input type="checkbox"/> WATER <input checked="" type="checkbox"/> SOIL <input type="checkbox"/> OIL <input type="checkbox"/> SLUDGE <input type="checkbox"/> OTHER	11 NO. OF CONTAINERS 11	<input checked="" type="checkbox"/> REGULAR (10 WKG DAYS) <input type="checkbox"/> RUSH (3 DAYS) <input type="checkbox"/> EMERGENCY (STAT)  *(SUBJECT TO WORK LOG)	Station 9 - O.S. Yard.
SAMPLE DELIVERED BY Fed X		SIGNATURE	DATE 8/2/91
<b>ANALYSIS REQUEST</b>			
WORK DESCRIPTION  SO10 8020			
SPECIAL INSTRUCTIONS			
BILLING: <input type="checkbox"/> PICKUP <input type="checkbox"/> MAIL		LOGGED IN BY	

Assaigai Analytical Labs  
7300 Jefferson NE  
Albuquerque, NM 87109

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

ENRON/TRANSWESTERN PIPELINE  
6381 N. MAIN STREET  
P.O. BOX 1717  
ROSWELL, NM 88202-1717  
Attn: LARRY CAMPBELL  
Invoice Number:

Order #: 91-08-048  
Date: 08/20/91 14:21  
Work ID: STA 9 O.S.YARD 7908  
Date Received: 08/06/91  
Date Completed: 08/20/91

SAMPLE IDENTIFICATION

<u>Sample Number</u>	<u>Sample Description</u>
01	OSBH7 33.5 - 33.7
03	OSHB8 4.6 - 4.9
05	OSBH8 49.7 - 49.9
07	OSBH9 32.0 - 32.5

<u>Sample Number</u>	<u>Sample Description</u>
02	OSBH7 37.0 - 37.2
04	OSBH8 33.9 - 34.1
06	OSBH9 4.5 - 4.9
08	OSBH9 49.5 - 49.7



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
METHYLENE CHLORIDE	<0.1	0.1	MG/KG	08/15/91	SR
1,1,1-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,1,2-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
TETRACHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
TRICHLOROFLUOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
TRICHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
VINYL CHLORIDE	<0.1	0.1	MG/KG	08/15/91	SR

Sample: 02A OSBH7 37.0 - 37.2

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
AROMATIC VOLATILE ORGANICS		0.1			
BENZENE	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
1,4-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
1,3-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
1,2-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
ETHYL BENZENE	X 0.19	0.1	MG/KG	08/15/91	SR
TOLUENE	<0.1	0.1	MG/KG	08/15/91	SR
XYLENES	X 0.44	0.1	MG/KG	08/15/91	SR
PURGEABLE HALOCARBONS-SOIL		0.1			
BROMODICHLOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
BROMOFORM	<0.1	0.1	MG/KG	08/15/91	SR
BROMOMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
CARBON TETRACHLORIDE	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
CHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROFORM	<0.1	0.1	MG/KG	08/15/91	SR
2-CHLOROETHYL VINYL ETHER	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
DIBROMOCHLOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,2-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
1,3-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
1,4-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
DICHLORODIFLUOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,1-DICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,2-DICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,1-DICHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
trans-1,2-DICHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
1,2-DICHLOROPROPANE	<0.1	0.1	MG/KG	08/15/91	SR
cis-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/15/91	SR
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
trans-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/15/91	SR
METHYLENE CHLORIDE	<0.1	0.1	MG/KG	08/15/91	SR
1,1,1-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,1,2-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
TETRACHLOROETHENE	0.17	0.1	MG/KG	08/15/91	SR
TRICHLOROFLUOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
TRICHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
VINYL CHLORIDE	<0.1	0.1	MG/KG	08/15/91	SR



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Sample: 03A OSHB8 4.6 - 4.9

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
PURGEABLE HALOCARBONS-SOIL		0.1			
BROMODICHLOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
BROMOFORM	<0.1	0.1	MG/KG	08/15/91	SR
BROMOMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
CARBON TETRACHLORIDE	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROFORM	<0.1	0.1	MG/KG	08/15/91	SR
2-CHLOROETHYL VINYL ETHER	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
DIBROMOCHLOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,2-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
1,3-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
1,4-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
DICHLORODIFLUOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,1-DICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,2-DICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,1-DICHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
trans-1,2-DICHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
1,2-DICHLOROPROPANE	<0.1	0.1	MG/KG	08/15/91	SR
cis-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/15/91	SR
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
trans-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/15/91	SR
METHYLENE CHLORIDE	<0.1	0.1	MG/KG	08/15/91	SR
1,1,1-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
1,1,2-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
TETRACHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
TRICHLOROFLUOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
TRICHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
VINYL CHLORIDE	<0.1	0.1	MG/KG	08/15/91	SR

Sample: 04A OSBH8 33.9 - 34.1

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
PURGEABLE HALOCARBONS-SOIL		0.1			
BROMODICHLOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
BROMOFORM	<0.1	0.1	MG/KG	08/15/91	SR
BROMOMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
CARBON TETRACHLORIDE	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROBENZENE	0.12	0.1	MG/KG	08/15/91	SR
CHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROFORM	<0.1	0.1	MG/KG	08/15/91	SR
2-CHLOROETHYL VINYL ETHER	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
DIBROMOCHLOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,2-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
1,3-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
1,4-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
DICHLORODIFLUOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,1-DICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,2-DICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR



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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-DICHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
trans-1,2-DICHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
1,2-DICHLOROPROPANE	<0.1	0.1	MG/KG	08/15/91	SR
cis-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/15/91	SR
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
trans-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/15/91	SR
METHYLENE CHLORIDE	<0.1	0.1	MG/KG	08/15/91	SR
1,1,1-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,1,2-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
TETRACHLOROETHENE	0.16	0.1	MG/KG	08/15/91	SR
TRICHLOROFLUOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
TRICHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
VINYL CHLORIDE	<0.1	0.1	MG/KG	08/15/91	SR

Sample: 05A OSBH8 49.7 - 49.9

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
AROMATIC VOLATILE ORGANICS		0.1			
BENZENE	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
1,4-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
1,3-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
1,2-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
ETHYL BENZENE	0.14	0.1	MG/KG	08/15/91	SR
TOLUENE	<0.1	0.1	MG/KG	08/15/91	SR
XYLENES	0.3	0.1	MG/KG	08/15/91	SR



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
PURGEABLE HALOCARBONS-SOIL		0.1			
BROMODICHLOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
BROMOFORM	<0.1	0.1	MG/KG	08/15/91	SR
BROMOMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
CARBON TETRACHLORIDE	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROFORM	<0.1	0.1	MG/KG	08/15/91	SR
2-CHLOROETHYL VINYL ETHER	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
DIBROMOCHLOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,2-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
1,3-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
1,4-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
DICHLORODIFLUOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,1-DICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,2-DICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,1-DICHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
trans-1,2-DICHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
1,2-DICHLOROPROPANE	<0.1	0.1	MG/KG	08/15/91	SR
cis-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/15/91	SR
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
trans-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/15/91	SR
METHYLENE CHLORIDE	<0.1	0.1	MG/KG	08/15/91	SR
1,1,1-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,1,2-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
TETRACHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
TRICHLOROFLUOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
TRICHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
VINYL CHLORIDE	<0.1	0.1	MG/KG	08/15/91	SR

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Sample: 06A OSBH9 4.5 - 4.9

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
PURGEABLE HALOCARBONS-SOIL		0.1			
BROMODICHLOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
BROMOFORM	<0.1	0.1	MG/KG	08/15/91	SR
BROMOMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
CARBON TETRACHLORIDE	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROFORM	<0.1	0.1	MG/KG	08/15/91	SR
2-CHLOROETHYL VINYL ETHER	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
DIBROMOCHLOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,2-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
1,3-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
1,4-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
DICHLORODIFLUOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,1-DICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,2-DICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,1-DICHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
trans-1,2-DICHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
1,2-DICHLOROPROPANE	<0.1	0.1	MG/KG	08/15/91	SR
cis-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/15/91	SR
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
trans-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/15/91	SR
METHYLENE CHLORIDE	<0.1	0.1	MG/KG	08/15/91	SR
1,1,1-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR



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Order # 91-08-048  
08/20/91 14:21

## 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>
1,1,2-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
TETRACHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
TRICHLOROFLUOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
TRICHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
VINYL CHLORIDE	<0.1	0.1	MG/KG	08/15/91	SR

Sample: 07A OSBH9 32.0 - 32.5

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
PURGEABLE HALOCARBONS-SOIL		0.1			
BROMODICHLOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
BROMOFORM	<0.1	0.1	MG/KG	08/15/91	SR
BROMOMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
CARBON TETRACHLORIDE	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROFORM	<0.1	0.1	MG/KG	08/15/91	SR
2-CHLOROETHYL VINYL ETHER	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
DIBROMOCHLOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,2-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
1,3-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
1,4-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
DICHLORODIFLUOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,1-DICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,2-DICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR



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Order # 91-08-048  
08/20/91 14:21

## 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>
1,1-DICHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
trans-1,2-DICHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
1,2-DICHLOROPROPANE	<0.1	0.1	MG/KG	08/15/91	SR
cis-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/15/91	SR
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
trans-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/15/91	SR
METHYLENE CHLORIDE	<0.1	0.1	MG/KG	08/15/91	SR
1,1,1-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,1,2-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
TETRACHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
TRICHLOROFLUOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
TRICHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
VINYL CHLORIDE	<0.1	0.1	MG/KG	08/15/91	SR

Sample: 08A OSBH9 49.5 - 49.7

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
AROMATIC VOLATILE ORGANICS		0.1			
BENZENE	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
1,4-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
1,3-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
1,2-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
ETHYL BENZENE	<0.1	0.1	MG/KG	08/15/91	SR
TOLUENE	<0.1	0.1	MG/KG	08/15/91	SR
XYLENES	<0.1	0.1	MG/KG	08/15/91	SR



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
PURGEABLE HALOCARBONS-SOIL		0.1			
BROMODICHLOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
BROMOFORM	<0.1	0.1	MG/KG	08/15/91	SR
BROMOMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
CARBON TETRACHLORIDE	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROFORM	<0.1	0.1	MG/KG	08/15/91	SR
2-CHLOROETHYL VINYL ETHER	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
DIBROMOCHLOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,2-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
1,3-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
1,4-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
DICHLORODIFLUOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,1-DICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,2-DICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,1-DICHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
trans-1,2-DICHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
1,2-DICHLOROPROPANE	<0.1	0.1	MG/KG	08/15/91	SR
cis-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/15/91	SR
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
trans-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/15/91	SR
METHYLENE CHLORIDE	<0.1	0.1	MG/KG	08/15/91	SR
1,1,1-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,1,2-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
TETRACHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
TRICHLOROFLUOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
TRICHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
VINYL CHLORIDE	<0.1	0.1	MG/KG	08/15/91	SR



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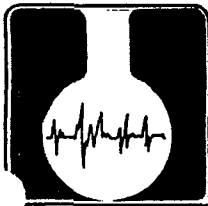
TEST METHODOLOGIES

8010\_S = USEPA SW-846 METHOD # 8010

8020 = USEPA SW-846 METHOD # 8020



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# ASSAIGAI ANALYTICAL LABORATORIES

## WORK ORDER 7908

<input type="checkbox"/> HAZARDOUS <input type="checkbox"/> NON-HAZARDOUS	DATE RECEIVED 8/16/91	ESTIMATED COST
CUSTOMER P.O. NUMBER	TIME RECEIVED 10:00	DUE DATE 8/30/91
ACCOUNT INFORMATION		
CUSTOMER'S NAME Enron/Texas Eastern Pipeline	CONTACT Larry Campbell	
ADDRESS	PHONE NUMBER 875 4802	
CITY / STATE / ZIP Houston		
PARTY RESPONSIBLE FOR PAYMENT IF OTHER THAN ABOVE		ACCOUNT STATUS
NAME	CONTACT	PAYMENT REC'D.
ADDRESS	PHONE NUMBER	OPEN ACCOUNT <input checked="" type="checkbox"/>
CITY / STATE / ZIP		CASH <input type="checkbox"/>
		CHECK NUMBER <input type="checkbox"/>
SPECIAL BILLING INSTRUCTIONS		
SAMPLE INFORMATION		
TYPE OF SAMPLE	NO. OF SAMPLES	*TURN AROUND TIME
<input checked="" type="checkbox"/> WATER	6	<input checked="" type="checkbox"/> REGULAR (10 WKG DAYS)
<input checked="" type="checkbox"/> SOIL		<input type="checkbox"/> RUSH (3 DAYS)
<input type="checkbox"/> OIL	NO. OF CONTAINERS	<input type="checkbox"/> EMERGENCY (STAT)
<input type="checkbox"/> SLUDGE	8	
<input type="checkbox"/> OTHER		
*(SUBJECT TO WORK LOG)		
SAMPLE DELIVERED BY J. L. [Signature]		DATE 8/16/91
ANALYSIS REQUEST		
WORK DESCRIPTION SOIL, 10.5, 10.20		
SPECIAL INSTRUCTIONS		
BILLING: <input type="checkbox"/> PICKUP <input type="checkbox"/> MAIL	LOGGED IN BY [Signature]	

TRANSWESTERN PIPELINE COMPANY

CHAIN OF CUSTODY

District: ROSUELL

Date: 8-5-91

Sample Location  
Valve or Receiver No.

Vol. Collect.  
During Flush

Sampler

STAT. 9 - O.S. YARD

METRIC

<u>SAMPLE ID NUMBER</u>	<u>SOLVENT USED</u>	<u>SAMPLE ICED</u>	<u>ANALYSES REQUESTED</u>
<u>OSBH7 33.5-33.7</u>		<u>YES</u>	<u>P010</u>
<u>OSBH7 32.0-32.2</u>		<u>YES</u>	<u>P010, P020</u>
<u>OSBH8 4.6-4.7</u>		<u>YES</u>	<u>P010</u>
<u>OSBH8 33.9-34.1</u>		<u>YES</u>	<u>P010</u>
<u>OSBH8 49.7-49.9</u>		<u>YES</u>	<u>P010, P020</u>
<u>OSBH9 1.5-1.9</u>		<u>YES</u>	<u>P010</u>
<u>OSBH9 32.0-32.5</u>		<u>YES</u>	<u>P010</u>
<u>OSBH9 42.5-42.7</u>		<u>YES</u>	<u>P010, P020</u>

Relinquished By EARL CHANLEY / TWPL

Date 8-5-91

Relinquished To FEA-X

Date 8-5-91

Relinquished By \_\_\_\_\_

Date \_\_\_\_\_

Relinquished To \_\_\_\_\_

Date \_\_\_\_\_

Relinquished By \_\_\_\_\_

Date \_\_\_\_\_

Relinquished To \_\_\_\_\_

Date \_\_\_\_\_

Relinquished By \_\_\_\_\_

Date \_\_\_\_\_

Relinquished By \_\_\_\_\_

Date \_\_\_\_\_

Laboratory: ASSANGAI LABS

Received: [Signature]

Date 8/6/91

**APPENDIX C**  
**LABORATORY RESULTS**  
**AND**  
**TOTAL RECOVERABLE PETROLEUM HYDROCARBONS**



Assaigai Analytical Labs  
7300 Jefferson NE  
Albuquerque, NM 87109

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

ENRON/TRANSWESTERN PIPELINE  
6381 N. MAIN STREET  
P.O. BOX 1717  
ROSWELL, NM 88202-1717  
Attn: LARRY CAMPBELL  
Invoice Number: 911774

Order #: 91-08-239  
Date: 09/05/91 12:15  
Work ID: STATION 9  
Date Received: 08/22/91  
Date Completed: 09/05/91

7752

\*\*\*\*\*  
\* REFERENCE WO#: 91-07-215 \*  
\*\*\*\*\*

SAMPLE IDENTIFICATION

<u>Sample Number</u>	<u>Sample Description</u>
03	PIT I 2.8 - 3.0
05	PIT I 13.5 - 13.7
07	PIT I 26.8 - 27.0
09	PIT I 41.6 - 41.8

<u>Sample Number</u>	<u>Sample Description</u>
04	PIT I 9.2 - 9.4
06	PIT I 18.8 - 19.0
08	PIT I 30.6 - 30.8
10	PIT I 43.5 - 43.7



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Order # 91-08-239  
09/05/91 12:15

Assaigai Analytical Labs

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

  
\_\_\_\_\_  
Certified By  
SYED N. RIZVI



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Independent Laboratories, Inc.

Order # 91-08-239  
09/05/91 12:15

Assaigai Analytical Labs

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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>
03A	PIT I 2.8 - 3.0	25,000	MG/KG	08/30/91	09/05/91	PV
04A	PIT I 9.2 - 9.4	39,000	MG/KG	08/30/91	09/05/91	PV
05A	PIT I 13.5 - 13.7	55,000	MG/KG	08/30/91	09/05/91	PV
06A	PIT I 18.8 - 19.0	20,000	MG/KG	08/30/91	09/05/91	PV
07A	PIT I 26.8 - 27.0	11,000	MG/KG	08/30/91	09/05/91	PV
08A	PIT I 30.6 - 30.8	16	MG/KG	08/30/91	09/05/91	PV
09A	PIT I 41.6 - 41.8	16	MG/KG	08/30/91	09/05/91	PV
10A	PIT I 43.5 - 43.7	56	MG/KG	08/30/91	09/05/91	PV



Assaigai Analytical Labs  
7300 Jefferson NE  
Albuquerque, NM 87109

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

ENRON/TRANSWESTERN PIPELINE  
6381 N. MAIN STREET  
P.O. BOX 1717  
ROSWELL, NM 88202-1717  
Attn: LARRY CAMPBELL  
Invoice Number: 911769

Order #: 91-08-240  
Date: 09/03/91 13:53  
Work ID: STATION #9  
Date Received: 08/22/91  
Date Completed: 09/03/91  
REFERENCE WO#: 91-07-257

7784

SAMPLE IDENTIFICATION

<u>Sample Number</u>	<u>Sample Description</u>
01	PIT 2 SAMPLE 001
03	PIT 2 26.0 - 26.2
05	PIT 2 39.8 - 39.9
07	PIT 2 57.5 - 57.8
09	
11	PIT 3 BH-2 25.0 - 25.2

<u>Sample Number</u>	<u>Sample Description</u>
02	PIT 2 SAMPLE 002
04	PIT 2 29.1 - 29.3
06	PIT 2 44.1 - 44.3
08	PIT 2 69.9 - 70.1
10	
12	PIT 3 BH-1 30.7 - 30.9



Order # 91-08-240  
09/03/91 13:53

Assaigai Analytical Labs

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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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Order # 91-08-240  
09/03/91 13:53

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Page 3

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	PIT 2 SAMPLE 001	<5.0	MG/KG	08/30/91	09/03/91	PV
02A	PIT 2 SAMPLE 002	13,000	MG/KG	08/30/91	09/03/91	PV
03A	PIT 2 26.0 - 26.2	170	MG/KG	08/30/91	09/03/91	PV
04A	PIT 2 29.1 - 29.3	<5.0	MG/KG	08/30/91	09/03/91	PV
05A	PIT 2 39.8 - 39.9	2600	MG/KG	08/30/91	09/03/91	PV
06A	PIT 2 44.1 - 44.3	44	MG/KG	08/30/91	09/03/91	PV
07A	PIT 2 57.5 - 57.8	250	MG/KG	08/30/91	09/03/91	PV
08A	PIT 2 69.9 - 70.1	<5.0	MG/KG	08/30/91	09/03/91	PV
09A						
10A						
11A	PIT 3 BH-2 25.0 - 25.2	<5.0	MG/KG	08/30/91	09/03/91	PV
12A	PIT 3 BH-1 30.7 - 30.9	<5.0	MG/KG	08/30/91	09/03/91	PV



**Assaigai Analytical Labs**  
7300 Jefferson NE  
Albuquerque, NM 87109

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

ENRON/TRANSWESTERN PIPELINE  
6381 N. MAIN STREET  
P.O. BOX 1717  
ROSWELL, NM 88202-1717  
Attn: LARRY CAMPBELL  
Invoice Number: 911768

Order #: 91-08-241  
Date: 09/03/91 13:52  
Work ID: STATION #9  
Date Received: 08/22/91  
Date Completed: 09/03/91  
REFERENCE WO#: 91-07-276

7799

**SAMPLE IDENTIFICATION**

<u>Sample Number</u>	<u>Sample Description</u>
01	SG 91 28.6 - 28.8
03	SG 86 18.7 - 18.9
05	SG 86 35.0 - 35.2

<u>Sample Number</u>	<u>Sample Description</u>
02	SG 86 13.5 - 13.7
04	SG 86 24.9 - 25.1
06	SG 86 40.5 - 40.7



Order # 91-08-241  
09/03/91 13:52

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7300 JEFFERSON N.E., ALBUQUERQUE, N.M. 87109

*Syed Rizvi*

Certified By  
SYED N. RIZVI



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Order # 91-08-241  
09/03/91 13:52

Assaigai Analytical Labs

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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	SG 91 28.6 - 28.8	<5.0	MG/KG	08/30/91	09/03/91	PV
02A	SG 86 13.5 - 13.7	18,000	MG/KG	08/30/91	09/03/91	PV
03A	SG 86 18.7 - 18.9	5200	MG/KG	08/30/91	09/03/91	PV
04A	SG 86 24.9 - 25.1	<5.0	MG/KG	08/30/91	09/03/91	PV
05A	SG 86 35.0 - 35.2	8.0	MG/KG	08/30/91	09/03/91	PV
06A	SG 86 40.5 - 40.7	<5.0	MG/KG	08/30/91	09/03/91	PV



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Assaigai Analytical Labs  
7300 Jefferson NE  
Albuquerque, NM 87109

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

ENRON/TRANSWESTERN PIPELINE  
6381 N. MAIN STREET  
P.O. BOX 1717  
ROSWELL, NM 88202-1717  
Attn: LARRY CAMPBELL  
Invoice Number: 911773

Order #: 91-08-246  
Date: 09/05/91 12:13  
Work ID: STATION #9 O.S. YARD 7848  
Date Received: 08/22/91  
Date Completed: 09/05/91

\*\*\*\*\*  
\* REFERENCE WO#: 91-07-330 \*  
\*\*\*\*\*

SAMPLE IDENTIFICATION

<u>Sample Number</u>	<u>Sample Description</u>	<u>Sample Number</u>	<u>Sample Description</u>
01	OSBH3	02	SG349 0-1.8
03	SG349 2.9-4.6	04	SG349 9.0-10.0
05	SG349 14.0-14.8	06	SG349 20.3-21.3
07	SG349 25.3-26.3	08	SG349 29.7-30.4
09	SG360 0.0-2.5	10	SG360 4.0-5.0
11	SG360 9.0-9.9	12	SG360 14.0-14.7
13	SG360 19.0-20.0	14	SG360 24.0-25.0
15	SG360 29.0-29.4	16	SG361 0-2.5
17	SG361 4.0-5.0	18	SG361 9.0-10.0



Order # 91-08-246  
09/05/91 12:13

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SAMPLE IDENTIFICATION

<u>Sample Number</u>	<u>Sample Description</u>
19	SG361 16.0-16.4
21	SG361 24.0-25.0

<u>Sample Number</u>	<u>Sample Description</u>
20	SG361 19.5-19.8
22	SG361 38.9-39.3

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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Order # 91-08-246  
09/05/91 12:13

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Page 3

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	OSBH3	<5.0	MG/KG	08/30/91	09/04/91	PV
02A	SG349 0-1.8	<5.0	MG/KG	08/30/91	09/05/91	PV
03A	SG349 2.9-4.6	<5.0	MG/KG	08/30/91	09/05/91	PV
04A	SG349 9.0-10.0	<5.0	MG/KG	08/30/91	09/04/91	PV
05A	SG349 14.0-14.8	<5.0	MG/KG	08/30/91	09/04/91	PV
06A	SG349 20.3-21.3	<5.0	MG/KG	08/30/91	09/04/91	PV
07A	SG349 25.3-26.3	<5.0	MG/KG	08/30/91	09/04/91	PV
08A	SG349 29.7-30.4	8.0	MG/KG	08/30/91	09/04/91	PV
09A	SG360 0.0-2.5	<5.0	MG/KG	08/30/91	09/04/91	PV
10A	SG360 4.0-5.0	<5.0	MG/KG	08/30/91	09/04/91	PV
11A	SG360 9.0-9.9	<5.0	MG/KG	08/30/91	09/04/91	PV
12A	SG360 14.0-14.7	8.0	MG/KG	08/30/91	09/04/91	PV
13A	SG360 19.0-20.0	<5.0	MG/KG	08/30/91	09/04/91	PV
14A	SG360 24.0-25.0	<5.0	MG/KG	08/30/91	09/04/91	PV
15A	SG360 29.0-29.4	20	MG/KG	08/30/91	09/04/91	PV
16A	SG361 0-2.5	<5.0	MG/KG	08/30/91	09/04/91	PV
17A	SG361 4.0-5.0	<5.0	MG/KG	08/30/91	09/04/91	PV
18A	SG361 9.0-10.0	<5.0	MG/KG	08/30/91	09/04/91	PV
19A	SG361 16.0-16.4	<5.0	MG/KG	08/30/91	09/04/91	PV
20A	SG361 19.5-19.8	<5.0	MG/KG	08/30/91	09/04/91	PV
21A	SG361 24.0-25.0	<5.0	MG/KG	08/30/91	09/04/91	PV
22A	SG361 38.9-39.3	<5.0	MG/KG	08/30/91	09/04/91	PV



**Assaigai Analytical Labs**  
7300 Jefferson NE  
Albuquerque, NM 87109

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

ENRON/TRANSWESTERN PIPELINE  
6381 N. MAIN STREET  
P.O. BOX 1717  
ROSWELL, NM 88202-1717  
Attn: LARRY CAMPBELL  
Invoice Number: 911790

Order #: 91-08-245  
Date: 09/06/91 08:52  
Work ID: STATION #9  
Date Received: 08/22/91  
Date Completed: 09/06/91

7821

\*\*\*\*\*  
\* REFERENCE WO#: 91-07-299 \*  
\*\*\*\*\*

SAMPLE IDENTIFICATION

<u>Sample Number</u>	<u>Sample Description</u>
01	OSBH1 18.9 - 19.1
03	OSBH2 9.9 - 10.1
05	OSBH2 31.1 - 31.3
07	OSBH2 55.2 - 55.4

<u>Sample Number</u>	<u>Sample Description</u>
02	OSBH1 34.3 - 34.5
04	OSBH2 22.5 - 22.6
06	OSBH2 41.8 - 42.0
08	OSBH2 69.0 - 69.2

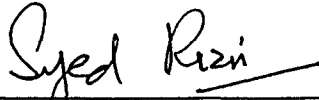


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REGULAR TEST RESULTS BY TEST

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	OSBH1 18.9 - 19.1	12	MG/KG	08/28/91	09/04/91	PV
02A	OSBH1 34.3 - 34.5	<5.0	MG/KG	08/28/91	09/04/91	PV
03A	OSBH2 9.9 - 10.1	<5.0	MG/KG	08/28/91	09/04/91	PV
04A	OSBH2 22.5 - 22.6	<5.0	MG/KG	08/28/91	09/04/91	PV
05A	OSBH2 31.1 - 31.3	68	MG/KG	08/28/91	09/04/91	PV
06A	OSBH2 41.8 - 42.0	24	MG/KG	08/28/91	09/04/91	PV
07A	OSBH2 55.2 - 55.4	16	MG/KG	08/30/91	09/05/91	PV
08A	OSBH2 69.0 - 69.2	16	MG/KG	08/30/91	09/05/91	PV



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Assaigai Analytical Labs  
7300 Jefferson NE  
Albuquerque, NM 87109

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

ENRON/TRANSWESTERN PIPELINE  
6381 N. MAIN STREET  
P.O. BOX 1717  
ROSWELL, NM 88202-1717  
Attn: LARRY CAMPBELL  
Invoice Number: 911791

Order #: 91-08-247  
Date: 09/06/91 09:01  
Work ID: STATION 9 O.S. YARD 7885  
Date Received: 08/22/91  
Date Completed: 09/05/91

\*\*\*\*\*  
\* REFERENCE WO#: 91-08-024 \*  
\*\*\*\*\*

SAMPLE IDENTIFICATION

Sample Number	Sample Description	Sample Number	Sample Description
01	OSBH3 44.1-44.3	02	OSBH3 54.8-55.0
03	OSBH4 27.5-27.7	04	OSBH5 14.0-14.2
05	OSBH5 19.6-19.9	06	OSBH5 23.4-23.6
07	OSBH6 13.6-13.8	08	OSBH6 47.0-47.2
09	OSBH6 52.6-52.8	10	OSBH6 70.0-71.0
11	OSBH7 22.1-22.3		



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Page 3

REGULAR TEST RESULTS BY TESTTOTAL 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	OSBH3 44.1-44.3	16	MG/KG	08/29/91	09/03/91	PV
02A	OSBH3 54.8-55.0	16	MG/KG	08/29/91	09/03/91	PV
03A	OSBH4 27.5-27.7	<5.0	MG/KG	08/29/91	09/03/91	PV
04A	OSBH5 14.0-14.2	<5.0	MG/KG	08/29/91	09/03/91	PV
05A	OSBH5 19.6-19.9	16	MG/KG	08/29/91	09/03/91	PV
06A	OSBH5 23.4-23.6	12	MG/KG	08/29/91	09/03/91	PV
07A	OSBH6 13.6-13.8	12	MG/KG	08/29/91	09/03/91	PV
08A	OSBH6 47.0-47.2	<5.0	MG/KG	08/29/91	09/03/91	PV
09A	OSBH6 52.6-52.8	<5.0	MG/KG	08/29/91	09/03/91	PV
10A	OSBH6 70.0-71.0	<5.0	MG/KG	08/29/91	09/03/91	PV
11A	OSBH7 22.1-22.3	<5.0	MG/KG	08/29/91	09/03/91	PV

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7300 Jefferson NE  
Albuquerque, NM 87109

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

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6381 N. MAIN STREET  
P.O. BOX 1717  
ROSWELL, NM 88202-1717  
Attn: LARRY CAMPBELL  
Invoice Number: 911792

Order #: 91-08-248  
Date: 09/06/91 09:02  
Work ID: STATION 9 O.S. YARD 7908  
Date Received: 08/22/91  
Date Completed: 09/05/91

\*\*\*\*\*  
\* REFERENCE WO#: 91-08-048 \*  
\*\*\*\*\*

SAMPLE IDENTIFICATION

<u>Sample Number</u>	<u>Sample Description</u>
01	OSBH7 33.5-33.7
03	OSHB8 4.6-4.9
05	OSBH8 49.7-49.9
07	OSBH9 32.0-32.5

<u>Sample Number</u>	<u>Sample Description</u>
02	OSBH7 37.0-37.2
04	OSBH8 33.9-34.1
06	OSBH9 4.5-4.9
08	OSBH9 47.5-49.7




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\_\_\_\_\_  
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**GW - 52**

## **REPORTS**

**YEAR(S):**

**1991**

**DRAFT**

**SHALLOW SUBSURFACE INVESTIGATION  
AT ROSWELL COMPRESSOR STATION  
CHAVES COUNTY, NEW MEXICO**

**PREPARED FOR  
TRANSWESTERN PIPELINE COMPANY  
ROSWELL, NEW MEXICO**

**PREPARED BY  
METRIC CORPORATION  
ALBUQUERQUE, NEW MEXICO**

**RECEIVED**

**FEB 07 1992**

**OIL CONSERVATION DIV.  
SANTA FE**

**DECEMBER 1991**

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SHALLOW SUBSURFACE INVESTIGATION  
AT ROSWELL COMPRESSOR STATION  
CHAVES COUNTY, NEW MEXICO

Summary

During July and November 1991, METRIC Corporation assisted Transwestern Pipeline Company in conducting comprehensive soil borings at its Roswell Compressor Station in order to assess the presence of organic constituents in three abandoned waste disposal pits located in the northeast portion of the site. Eight boreholes were developed on site and twelve boreholes were developed in the adjacent area off site. Based on laboratory analysis of samples, purgeable halocarbons (Method 8010) were determined to be present within 30 feet of the ground surface at Pit 1, Pit 2, and SG 86 borehole locations. Low level concentrations were detected in OS BH-7 and OS BH-8 at approximately 37 feet and 34 feet, respectively. Detection of aromatic volatile organics (Method 8020) also occurred at low concentrations in boreholes OS BH-7 and OS BH-8 at approximate depths of 37 feet and 48 feet, respectively. Organic constituents hit as a result of Method 8010 and 8020 analyses were not continuous or contiguous throughout the area investigated. For total recoverable petroleum hydrocarbons, analytical results indicate concentrations of >100 ppm at boreholes Pit 1, Pit 2, SG 86 and OS BH-9 to depths of 27 feet, 58 feet, 19 feet and 33 feet, respectively.



SHALLOW SUBSURFACE INVESTIGATION  
AT ROSWELL COMPRESSOR STATION  
CHAVES COUNTY, NEW MEXICO

Introduction

In July 1991, METRIC Corporation assisted Transwestern Pipeline Company in conducting comprehensive soil borings at its Roswell Compressor Station in order to assess the presence of organic constituents in three abandoned waste disposal pits. In November 1991, METRIC Corporation revisited the Roswell Compressor Station to complete its assessment of the abandoned waste disposal pits. Additionally, this study was performed to determine the horizontal and vertical extent of the organic constituents identified. Results of the subsurface investigation are presented in this report.

The compressor station is located 5 miles north of Roswell, New Mexico. The investigation was conducted at the northeast corner of the station in the vicinity of the three abandoned waste disposal pits.

In July, eighteen borehole locations and two boreholes in November 1991 were planned in coordination with Transwestern Pipeline personnel, focusing on the vicinity of the disposal pit sites. Eight boreholes were developed on site and twelve boreholes were developed off site to the north and east (FIGURE 1).

Borehole Sampling and Analytical Field Screening

Borehole drilling was provided 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

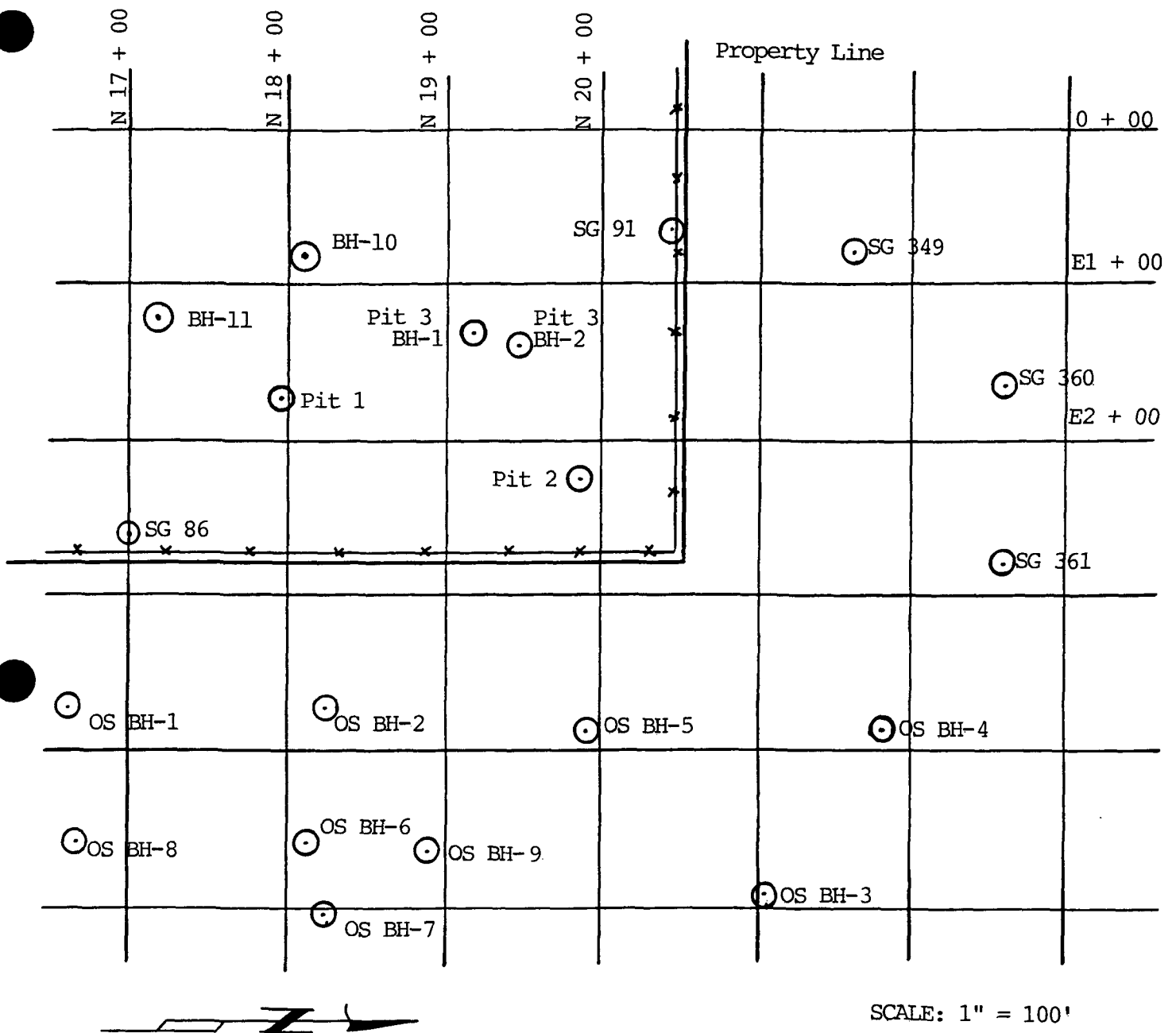


FIGURE 1

BOREHOLE LOCATIONS  
FOR SUBSURFACE INVESTIGATION  
ROSWELL COMPRESSOR STATION

samplers were steam cleaned to eliminate contamination within a sampling borehole and potential cross contamination among the boreholes.

Drilling was generally conducted to the depth of an underlying impermeable or red clay layer. Soil cores withdrawn using the continuous sampler were scanned with a portable organic vapor analyzer (OVA) in order to guide sample selection. Lab samples were taken at the point of highest OVA reading within a particular soil core interval or where visual inspection indicated the possibility of organic constituent occurrence. Samples were collected in 8 oz. glass jars, placed on ice, accompanied with a properly completed chain of custody form, and shipped by Federal Express overnight delivery to Assaigai Laboratories in Albuquerque, New Mexico. Methods 8010 and 418.1 were performed for all samples collected in July 1991 to determine light and heavy hydrocarbon constituents. Method 8020 was performed at selected locations to determine the type of constituents. Analyses performed are indicated on TABLE 1 for boreholes sampled. For November 1991 samples, Method 602/8020 and Method 418.1 were performed. Borehole sample logs are provided in APPENDIX A.

### Analytical Results

The analyses performed for the July and November 1991 sampling, as outlined in TABLE 1, are presented in TABLES 2, 3, and 4 for purgeable halocarbons (Method 8010), aromatic volatile organics (Method 8020), and total recoverable petroleum hydrocarbons (Method 418.1), respectively. Laboratory reports are provided in APPENDICES B and C.

Purgeable halocarbons were determined to be present within 30 feet of the surface at Pit 1, Pit 2, and SG 86 borehole locations

TABLE 1

## LABORATORY ANALYSES PERFORMED ON SUBSURFACE SOIL SAMPLES

SAMPLE NUMBER	PURGEABLE HALOCARBONS	AROMATIC VOLATILE ORGANICS	TOTAL RECOVERABLE PETROLEUM HYDROCARBONS
	8010	8020	418.1
Pit 1, 2.8'-3.0'	X		X
Pit 1, 9.2'-9.4'	X		X
Pit 1, 13.5'-13.7'	X		X
Pit 1, 18.8'-19.0'	X		X
Pit 1, 26.8'-27.0'	X		X
Pit 1, 30.6'-30.8'	X		X
Pit 1, 41.6'-41.8'	X	X	X
Pit 1, 43.5'-43.7'	X	X	X
Pit 2, sample 001	X		X
Pit 2, sample 002	X		X
Pit 2, 26.0'-26.2'	X		X
Pit 2, 29.1'-29.3'	X		X
Pit 2, 39.8'-39.9'	X		X
Pit 2, 44.1'-44.3	X	X	X
Pit 2, 57.5'-57.8'	X		X
Pit 2, 69.9'-70.1'	X	X	X
Pit 3, BH-1, 30.7'-30.9'	X	X	X
Pit 3, BH-2, 25.0'-25.2'	X	X	X
SG 86, 13.5'-13.7'	X		X
SG 86, 18.7'-18.9'	X		X
SG 86, 24.9'-25.1'	X		X
SG 86, 25.0'-35.2'	X		X
SG 86, 35.0'-35.2'	X		X
SG 86, 40.5'-40.7'	X	X	X

TABLE 1 (Continued)

## LABORATORY ANALYSES PERFORMED ON SUBSURFACE SOIL SAMPLES

SAMPLE NUMBER	PURGEABLE HALOCARBONS	AROMATIC VOLATILE ORGANICS	TOTAL RECOVERABLE PETROLEUM HYDROCARBONS
	8010	8020	418.1
SG 91, 28.6'-28.8'	X	X	X
SG 349, 0.0'-1.8'	X		X
SG 349, 2.9'-4.6'	X		X
SG 349, 9.0'-10.0'	X		X
SG 349, 14.0'-14.8'	X		X
SG 349, 20.3'-21.3'	X		X
SG 349, 25.3'-26.3'	X		X
SG 349, 29.7'-30.4'	X	X	X
SG 360, 0.0'-2.5'	X		X
SG 360, 4.0'-5.0'	X		X
SG 360, 9.0'-9.9'	X		X
SG 360, 14.0'-14.7'	X		X
SG 360, 19.0'-20.0'	X		X
SG 360, 24.0'-25.0'	X		X
SG 360, 29.0'-29.4'	X		X
SG 361, 0.0'-2.5'	X		X
SG 361, 4.0'-5.0'	X		X
SG 361, 9.0'-10.0'	X		X
SG 361, 16.0'-16.4'	X		X
SG 361, 19.5'-19.8'	X		X
SG 361, 24.0'-25.0'	X		X
SG 361, 38.9'-39.3'	X		X
OS BH-1, 18.9'-19.1'	X		X
OS BH-1, 34.2'-34.5'	X		X
OS BH-2, 9.9'-10.1'	X		X
OS BH-2, 22.5'-22.6'	X		X
OS BH-2, 31.1'-31.3'	X		X

TABLE 1 (Continued)

## LABORATORY ANALYSES PERFORMED ON SUBSURFACE SOIL SAMPLES

SAMPLE NUMBER	PURGEABLE HALOCARBONS	AROMATIC VOLATILE ORGANICS	TOTAL RECOVERABLE PETROLEUM HYDROCARBONS
	8010	8020	418.1
OS BH-2, 41.8'-42.0'	X		X
OS BH-2, 55.2'-55.4'	X		X
OS BH-2, 69.0'-69.2'	X		X
OS BH-3, 21.0'-21.2'	X	X	X
OS BH-3, 44.1'-44.3'	X		X
OS BH-3, 54.7'-55.0'	X	X	X
OS BH-4, 27.5'-27.7'	X	X	X
OS BH-5, 14.0'-14.2'	X		X
OS BH-5, 19.6'-19.9'	X		X
OS BH-5, 23.4'-23.6'	X	X	X
OS BH-6, 13.6'-13.8'	X		X
OS BH-6, 47.0'-47.2'	X		X
OS BH-6, 52.6'-52.8'	X		X
OS BH-6, 70.0'-71.0'	X	X	X
OS BH-7, 22.1'-22.3'	X	X	X
OS BH-7, 33.5'-33.7'	X		X
OS BH-7, 37.0'-37.2'	X	X	X
OS BH-8, 4.6'-4.9'	X		X
OS BH-8, 33.9'-34.1'	X		X
OS BH-8, 49.7'-49.9'	X	X	X

TABLE 1 (Continued)

## LABORATORY ANALYSES PERFORMED ON SUBSURFACE SOIL SAMPLES

SAMPLE NUMBER	PURGEABLE HALOCARBONS	AROMATIC VOLATILE ORGANICS	TOTAL RECOVERABLE PETROLEUM HYDROCARBONS
	8010	8020	418.1
OS BH-9, 4.5'-4.9'	X		X
OS BH-9, 32.0'-32.5'	X		X
OS BH-9, 49.5'-49.7'	X	X	X
BH-10, 37.3'-37.6'		X <sup>1</sup>	X
BH-11, 36.3'-36.7'		X <sup>1</sup>	X

<sup>1</sup> Analysis conducted was Method 602/8020 for BTEX.

TABLE 2  
SUMMARY OF ANALYTICAL RESULTS FOR PURGEABLE HALOCARBON OCCURRENCE  
AT ROSWELL COMPRESSOR STATION

PARAMETER	SAMPLE NUMBER										
	Pit 1 1.8'-3.0'	Pit 1 9.2'-9.4'	Pit 1 13.5'-13.7'	Pit 1 18.8'-19.0'	Pit 1 26.8'-27.0'	Pit 1 30.6'-30.8'	Pit 1 41.6'-41.8'	Pit 1 43.5'-43.7'	Pit 2 001 (18.7'-18.9')	Pit 2 002	Pit 2 26.0'-26.2'
<u>Purgeable Halocarbon</u> <u>Compounds (mg/kg)</u> <u>Method 8010</u>											
1,1,1-Trichloroethane	3.2	19	18	0.33	BDL	BDL	BDL	BDL	BDL	0.37	BDL
Tetrachloroethene	BDL	0.26	0.33	0.87	0.16	BDL	BDL	BDL	BDL	0.65	BDL
Chloroform	BDL	BDL	0.20	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1-Dichloroethane	BDL	BDL	0.59	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

PARAMETER	SAMPLE NUMBER								
	Pit 2 29.1'-29.3'	Pit 2 39.8'-39.9'	Pit 2 44.1'-44.3'	Pit 2 57.5'-57.8'	Pit 2 69.0'-70.1'	Pit 3, BH-1 30.7'-30.9'	Pit 3, BH-2 25.0'-25.2	SG 86 13.5'-13.7'	SG 86 18.7'-18.9'
<u>Purgeable Halocarbon</u>									
<u>Compounds (mg/kg)</u>									
<u>Method 8010</u>									
1,1,1-Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.24	BDL
Tetrachloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.9	0.23



TABLE 2 (Continued)

SUMMARY OF ANALYTICAL RESULTS FOR PURGEABLE HALOCARBON OCCURRENCE  
AT ROSWELL COMPRESSOR STATION

PARAMETER	SAMPLE NUMBER									
	SG 86 24.9'-25.1'	SG 86 35.0'-35.2'	SG 86 40.5'-40.7'	SG 91 28.6'-28.8'	SG 349 0.0'-1.8'	SG 349 2.9'-4.6'	SG 349 9.0'-10.0'	SG 349 14.0'-14.8'	SG 349 20.3'-21.3'	SG 349 5.3'-26.3'
<u>Purgeable Halocarbon</u> <u>Compounds (mg/kg)</u> <u>Method 8010</u>	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

PARAMETER	SAMPLE NUMBER									
	SG 349 29.7'-30.4'	SG 360 0.0'-2.5'	SG 360 4.0'-5.0'	SG 360 9.0'-9.9'	SG 360 14.0'-14.7'	SG 360 19.0'-20.0'	SG 360 24.0'-25.0'	SG 360 29.0'-29.4'	SG 361 0.0'-2.5'	
<u>Purgeable Halocarbon</u> <u>Compounds (mg/kg)</u> <u>Method 8010</u>	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	

PARAMETER	SAMPLE NUMBER									
	SG 361 4.0'-5.0'	SG 361 9.0'-10.0'	SG 361 16.0'-16.4'	SG 361 19.5'-19.8'	SG 361 24.0'-25.0'	SG 361 38.0'-39.3'	OS BH-1 18.9'-19.1'	OS BH-1 34.3'-34.5'	OS BH-2 9.9'-10.1'	OS BH-2 22.5'-22.6'
<u>Purgeable Halocarbon</u> <u>Compounds (mg/kg)</u> <u>Method 8010</u>	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

TABLE 2 (Continued)  
SUMMARY OF ANALYTICAL RESULTS FOR PURGEABLE HALOCARBON OCCURRENCE  
AT ROSWELL COMPRESSOR STATION

PARAMETER	SAMPLE NUMBER							
	OS BH-2 31.1'-31.3'	OS BH-2 41.8'-42.0'	OS BH-2 55.2'-55.4'	OS BH-2 69.0'-69.2'	OS BH-3 21.0'-21.2'	OS BH-3 44.1'-44.3'	OS BH-3 54.7'-55.0'	OS BH-4 27.5'-27.7'
<u>Purgeable Halocarbon</u> <u>Compounds (mg/kg)</u> <u>Method 8010</u>	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

PARAMETER	SAMPLE NUMBER								
	OS BH-5 14.0'-14.2'	OS BH-5 19.6'-19.9'	OS BH-5 23.4'-23.6'	OS BH-6 13.6'-13.8'	OS BH-6 47.0'-47.2'	OS BH-6 52.6'-52.8'	OS BH-6 70.0'-71.0'	OS BH-7 22.1'-22.3'	OS BH-7 33.5'-33.7'
<u>Purgeable Halocarbon</u> <u>Compounds (mg/kg)</u> <u>Method 8010</u>	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

PARAMETER	SAMPLE NUMBER						
	OS BH-7 37.0'-37.2'	OS BH-8 4.6'-4.9'	OS BH-8 33.9'-34.1'	OS BH-8 49.7'-49.9'	OS BH-9 4.5'-4.9'	OS BH-9 32.0'-32.5'	OS BH-9 49.5'-49.7'
<u>Purgeable Halocarbon</u> <u>Compounds (mg/kg)</u> <u>Method 8010</u>							
Tetrachloroethene	0.17	BDL	0.16	BDL	BDL	BDL	BDL
Clorobenzene	BDL	BDL	0.12	BDL	BDL	BDL	BDL

BDL = below detection limit of 0.1 mg/kg.

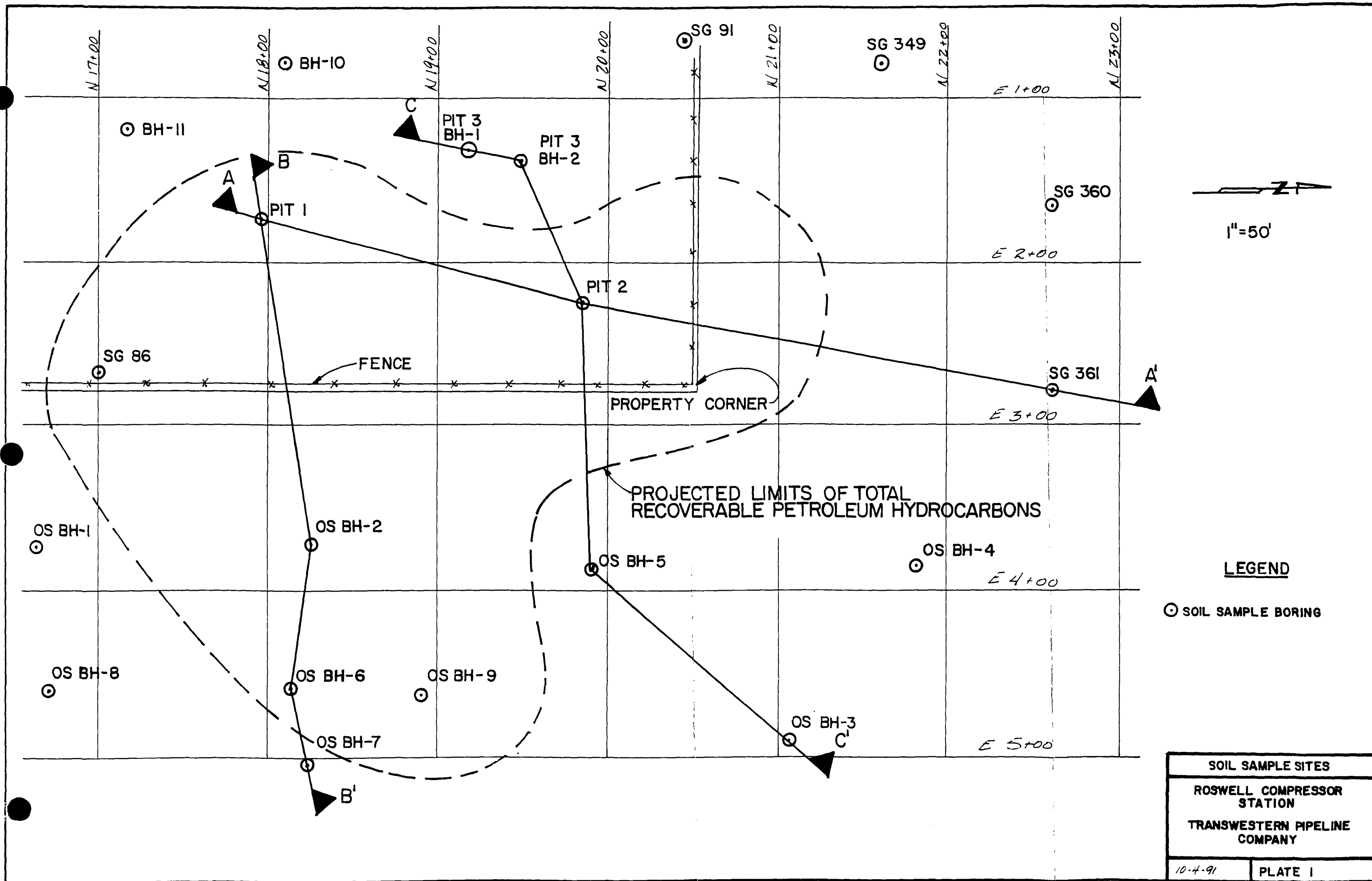


TABLE 3

SUMMARY OF ANALYTICAL RESULTS FOR  
AROMATIC VOLATILE ORGANIC COMPOUND OCCURRENCE  
AT ROSWELL COMPRESSOR STATION

PARAMETER	SAMPLE NUMBER								
	Pit 1 41.6'-41.8'	Pit 1 43.5'-43.7'	Pit 2 44.1'-44.3'	Pit 2 69.9'-70.1'	Pit 3, BH-1 30.7'-30.9'	Pit 3, BH-2 25.0'-25.2'	SG 86 40.5'-40.7'	SG 91 28.6'-28.8'	SG 349 29.7'-30.4'

Aromatic Volatile  
Organic Compounds  
(mg/kg) Method 8020

BDL                  BDL                  BDL                  BDL                  BDL                  BDL                  BDL                  BDL

PARAMETER	SAMPLE NUMBER								
	OS BH-3 21.0'-21.2'	OS BH-3 54.7'-55.0'	OS BH-4 27.5'-27.7'	OS BH-5 23.4'-23.6'	OS BH-6 70.0'-71.0'	OS BH-7 22.1'-22.3'	OS BH-7 37.0'-37.2'	OS BH-8 47.7'-49.9'	OS BH-9 49.5'-49.7'

Aromatic Volatile  
Organic Compounds  
(mg/kg) Method 8020

Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	0.19	0.14	BDL
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	0.44	0.3	BDL

BDL = below detection limit of 0.1 mg/kg.

TABLE 3 (CONTINUED)

SUMMARY OF ANALYTICAL RESULTS FOR  
AROMATIC VOLATILE ORGANIC COMPOUND OCCURRENCE  
AT ROSWELL COMPRESSOR STATION

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PARAMETER	SAMPLE NUMBER	
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BH-10  
37.3'-37.6'BH-11  
36.3'-36.7'

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Aromatic Volatile  
Organic Compounds  
(mg/kg) Method 8020<sup>1</sup>

BDL

BDL

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BDL = below detection limit of 0.1 mg/kg.

<sup>1</sup> Analysis conducted was Method 602/8020 for BTEX only.

TABLE 4

SUMMARY OF ANALYTICAL RESULTS FOR  
TOTAL RECOVERABLE PETROLEUM HYDROCARBON OCCURRENCE  
AT ROSWELL COMPRESSOR STATION

PARAMETER	SAMPLE NUMBER									
	Pit 1 2.8'-3.0'	Pit 1 9.2'-9.4'	Pit 1 13.5'-13.7'	Pit 1 18.8'-19.0'	Pit 1 26.8'-27.0'	Pit 1 30.6'-30.8'	Pit 1 41.6'-41.8'	Pit 1 43.5'-43.7'	Pit 2 001 (18.7'-18.9')	Pit 2 002 (18.7'-18.9')
<u>Total Recoverable Petroleum Hydrocarbons (mg/kg) Method 418.1</u>	25,000	39,000	55,000	20,000	11,000	16	16	56	BDL	13,000

PARAMETER	SAMPLE NUMBER								
	Pit 2 26.0'-26.2'	Pit 2 29.1'-29.3'	Pit 2 39.8'-39.9'	Pit 2 44.1'-44.3'	Pit 2 57.5'-57.8'	Pit 2 69.9'-70.1'	Pit 3, BH-1 30.7'-30.9'	Pit 3, BH-2 25.0'-25.2'	
<u>Total Recoverable Petroleum Hydrocarbons (mg/kg) Method 418.1</u>	170	BDL	2600	44	250	BDL	BDL	BDL	

PARAMETER	SAMPLE NUMBER									
	SG 86 13.5'-13.7'	SG 86 18.7'-18.9'	SG 86 24.9'-25.1'	SG 86 35.0'-35.2'	SG 86 40.5'-40.7'	SG 91 28.6'-28.8'	SG 349 0.0'-1.8'	SG 349 2.9'-4.6'	SG 349 9.0'-10.0'	SG 349 14.0'-14.8'
<u>Total Recoverable Petroleum Hydrocarbons (mg/kg) Method 418.1</u>	18,000	5200	BDL	8.0	BDL	BDL	BDL	BDL	BDL	BDL

TABLE 4 (continued)

SUMMARY OF ANALYTICAL RESULTS FOR  
TOTAL RECOVERABLE PETROLEUM HYDROCARBON OCCURRENCE  
AT ROSWELL COMPRESSOR STATION

PARAMETER	SAMPLE NUMBER								
	SG 349 20.3'-21.3'	SG 349 25.3'-26.3'	SG 349 29.7'-30.4'	SG 349 0.0'-2.5'	SG 360 4.0'-5.0'	SG 360 9.0'-9.9'	SG 360 14.0'-14.7'	SG 360 19.0'-20.0'	SG 360 24.0'-25.0'
<u>Total Recoverable Petroleum Hydrocarbons (mg/kg) Method 418.1</u>	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

PARAMETER	SAMPLE NUMBER								
	SG 360 29.0'-29.4'	SG 361 0.0'-2.5'	SG 361 4.0'-5.0'	SG 361 9.0'-10.0'	SG 361 16.0'-16.4'	SG 361 19.5'-19.8'	SG 361 24.0'-25.0'	SG 361 38.9'-39.3'	OS BH-1 18.9'-19.1'
<u>Total Recoverable Petroleum Hydrocarbons (mg/kg) Method 418.1</u>	2.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	12

PARAMETER	SAMPLE NUMBER							
	OS BH-1 34.3'-34.5'	OS BH-2 9.9'-10.1'	OS BH-2 22.5'-22.6'	OS BH-2 31.1'-31.3'	OS BH-2 41.8'-42.0'	OS BH-2 55.2'-55.4'	OS BH-2 69.0'-69.2'	OS BH-3 21.0'-21.2'
<u>Total Recoverable Petroleum Hydrocarbons (mg/kg) Method 418.1</u>	BDL	BDL	BDL	68	24	16	16	BDL

TABLE 4 (Continued)

SUMMARY OF ANALYTICAL RESULTS FOR  
TOTAL RECOVERABLE PETROLEUM HYDROCARBON OCCURRENCE  
AT ROSWELL COMPRESSOR STATION

PARAMETER	SAMPLE NUMBER							
	OS BH-3 44.1'-44.3'	OS BH-3 54.8'-55.0'	OS BH-4 27.5'-27.2'	OS BH-5 14.0'-14.2'	OS BH-5 19.6'-19.9'	OS BH-5 23.4'-23.6'	OS BH-6 13.6'-13.8'	OS BH-6 47.0'-47.2'
<u>Total Recoverable Petroleum Hydrocarbons (mg/kg) Method 418.1</u>	16	16	BDL	BDL	16	12	12	BDL

PARAMETER	SAMPLE NUMBER						
	OS BH-6 52.6'-52.8'	OS BH-6 70.0'-71.0'	OS BH-7 22.1'-22.3'	OS BH-7 33.5'-33.7'	OS BH-7 37.0'-37.2'	OS BH-8 4.6'-4.9'	OS BH-8 33.9'-34.1'
<u>Total Recoverable Petroleum Hydrocarbons (mg/kg) Method 418.1</u>	BDL	BDL	BDL	BDL	12	12	BDL

PARAMETER	SAMPLE NUMBER					
	OS BH-8 49.7'-49.9'	OS BH-9 4.5'-4.9'	OS BH-9 32.0'-32.5'	OS BH-9 47.5'-49.7'	BH-10 37.3'-37.6'	BH-11 36.3'-36.7'
<u>Total Recoverable Petroleum Hydrocarbons (mg/kg) Method 418.1</u>	12	8	150	8	BDL	8

BDL = below detection limit of 5.0 mg/kg.



(TABLE 2 and PLATE 1). Hits for 1,1,1-Trichloroethane are shown at Pit 1 for depth intervals of 1.8'-3.0', 9.2'-9.4', 13.5'-13.7', and 18.8'-19.0', and 26.8'-27.0' depth intervals for Pit 1. Chloroform and 1,1-Dichloroethane were also hit at Pit 1 depth interval of 13.5'-13.7'.

At Pit 2, 1,1,1-Trichloroethane and Tetrachloroethene were hit at the 18.7'-18.9' interval. These two constituents were also hit at the 13.5'-13.7' interval of SG 86. Only Tetrachloroethene was hit at SG 86 depth interval of 18.7'-18.9'.

Low level concentrations of Tetrachloroethene were hit at boreholes OS BH-7 and OS BH-8 at depth intervals of 37.0'-37.2' and 33.9'-34.1', respectively. Chlorobenzene was also hit at the 33.9'-34.1' interval of OS BH-8.

Analysis results for aromatic volatile organic constituents indicate hits for Ethylbenzene and Xylenes in boreholes OS BH-7 and OS BH-8 at depth intervals of 37.0'-37.2' and 47.7'-39.9'.

Organic constituents hit as a result of Method 8010 and 8020 analyses were not continuous or contiguous throughout the area investigated.

For total recoverable petroleum hydrocarbons (TRPH), analytical results indicate concentrations >100 ppm at boreholes Pit 1, Pit 2, SG 86 and OS BH-9 (TABLE 4 and PLATE 1). At Pit 1, TRPH were detected for all sample intervals to a depth of 43.7'. Pit 2 hit TRPH in nearly all depth intervals to 57.8'. At SG 86, TRPH were hit at 13.5'-13.7', 18.7'-18.9', and 35.0'-35.2'. Finally, at OS BH-9, levels of TRPH >100 ppm were hit only at the 32.0'-32.5' depth interval.

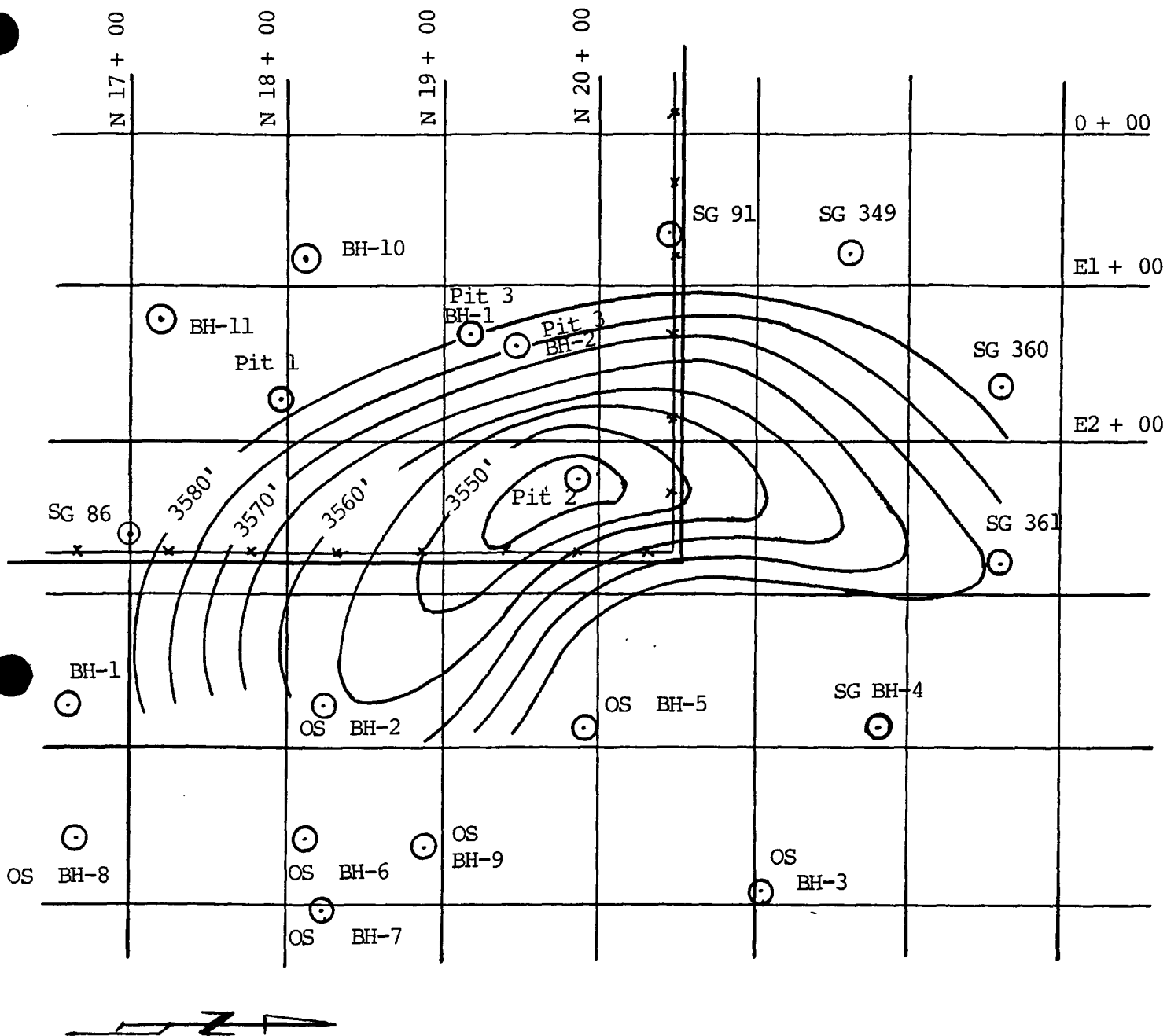
## Investigation Results

Based on the July and November 1991 borehole data, flame ionization detector (OVA) and photoionization detector (PID) data, and analytical results of borehole sampling, the configuration of maximum horizontal extent of the plume of total recoverable petroleum hydrocarbon (TRPH) is represented in PLATE 1. Inclusion of OS BH-2 and OS BH-6 within the plume is based on OVA readings of > 1000 ppm.

PLATE 2, 3, and 4 present cross sections A-A', B-B', and C-C', respectively, representing estimated subsurface conditions away from the contaminant sources, in generally the eastward and northward directions. Borehole plots provide boring elevations, OVA readings in ppm for volatile constituents detected during continuous sample recovery, and analytical results for total recoverable petroleum hydrocarbons. The data plots depict the vertical concentration.

Based on borehole sample log description (APPENDIX A), the top surface of the impermeable red clay is represented in FIGURE 2 and plotted in the cross sections. The surface appears as a depression open to the southeast. All TRPH is confined to above the clay surface.

Occurrence of perched groundwater was observed during the borehole drilling and sampling operation. According to Transwestern personnel, the local water table is at about 120 feet; thus below the red clay bed. FIGURE 3 indicates the elevations of water levels for boreholes in which groundwater was encountered during drilling. The elevations depicted in FIGURE 3 are based on water levels sounded from ground level in Pit 2, SG 361, OS BH-2, OS BH-6, OS BH-8 and OS BH-9. This perched water surface is also represented in the cross sections of Plates



SCALE: 1" = 100'

FIGURE 2  
CONTOURS OF TOP SURFACE OF RED CLAY  
ROSWELL COMPRESOR STATION

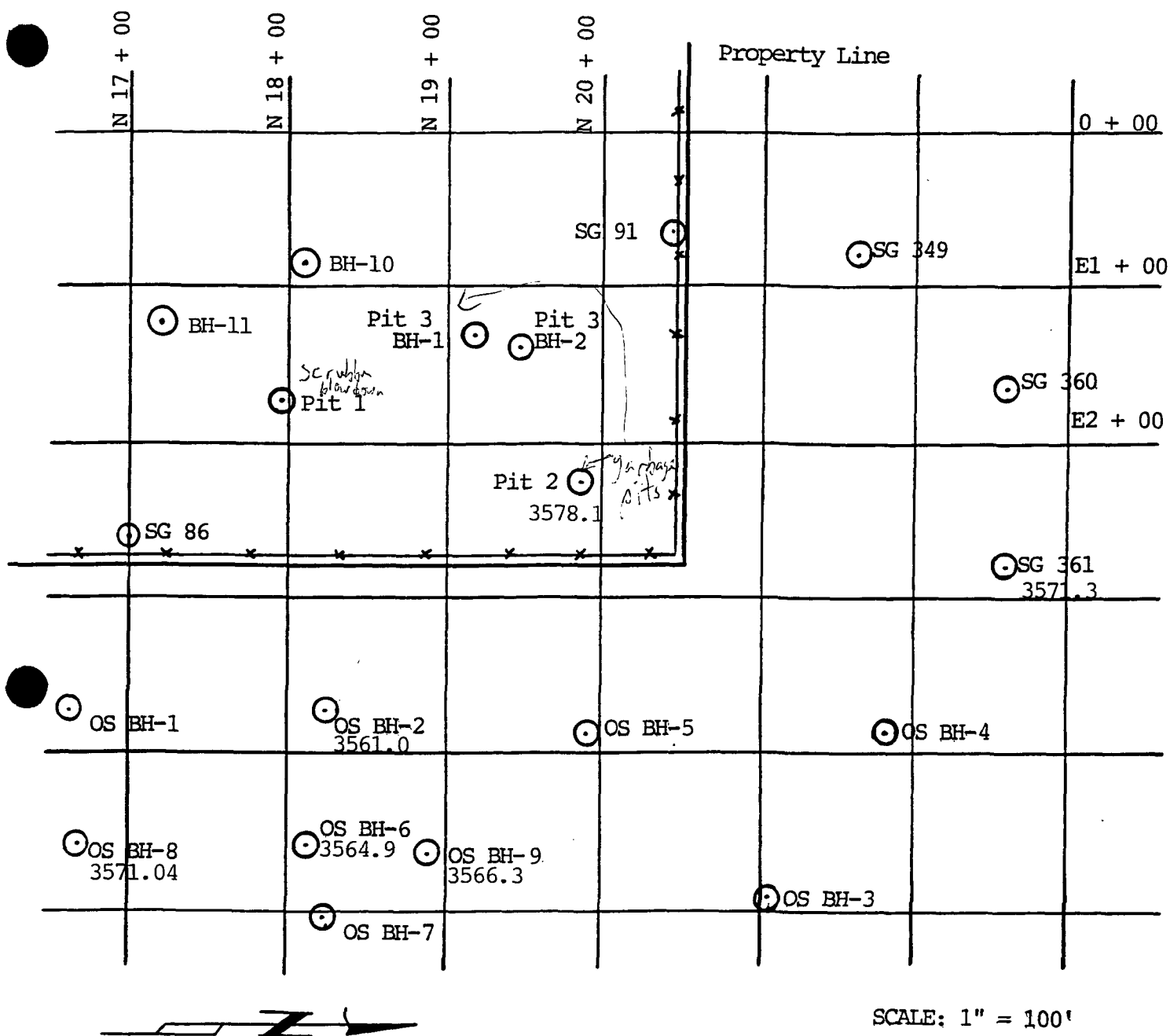
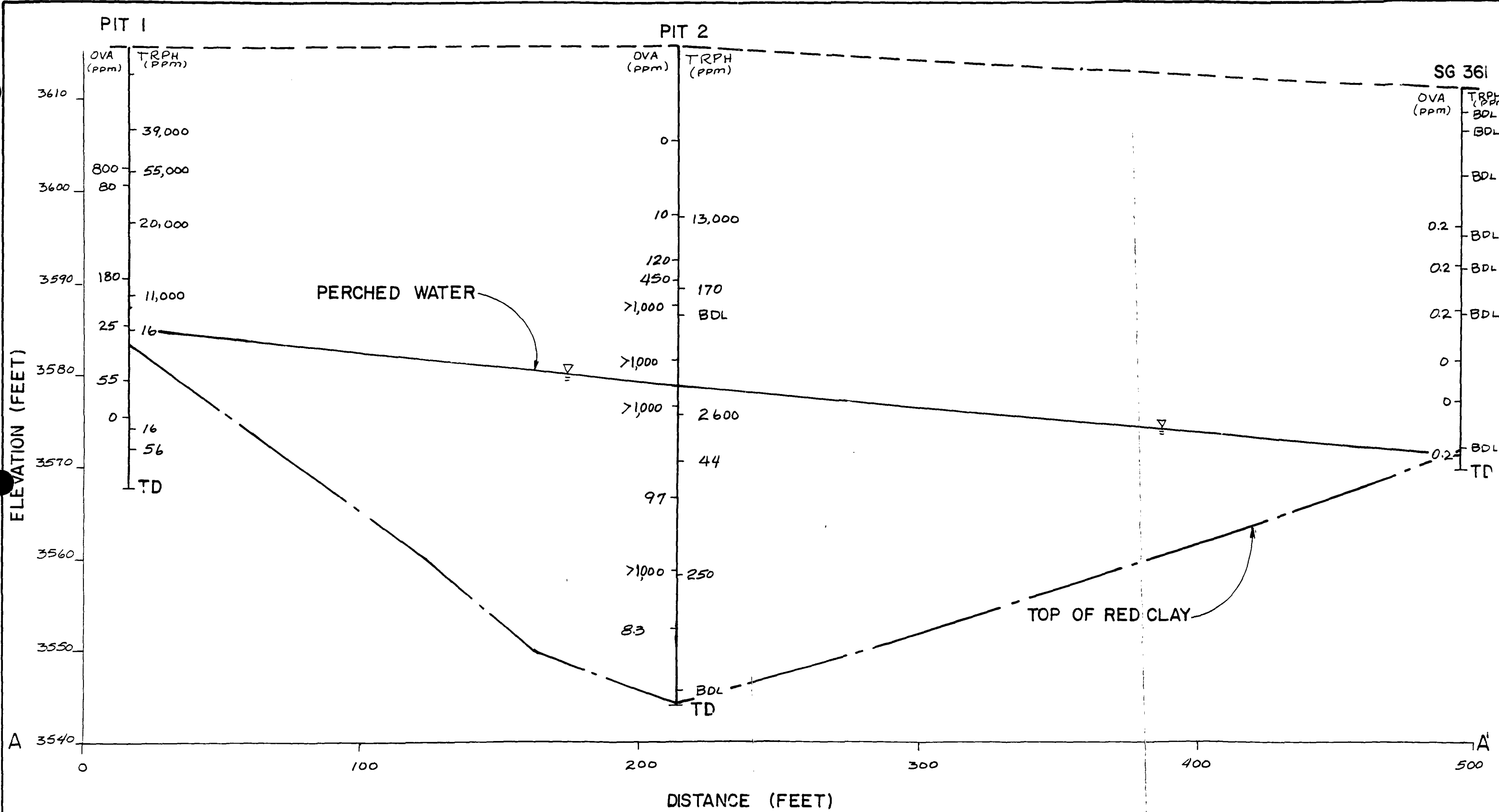
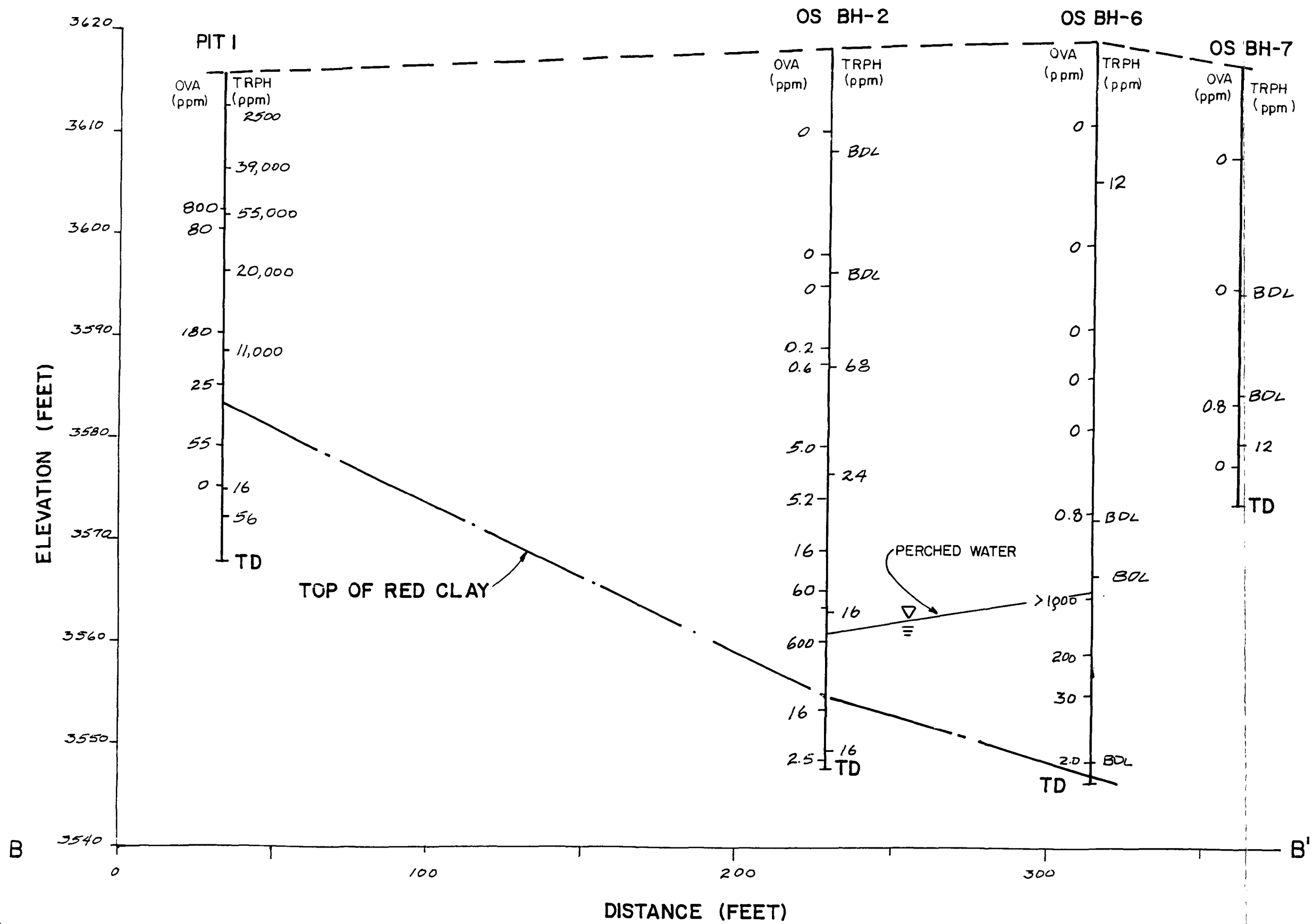


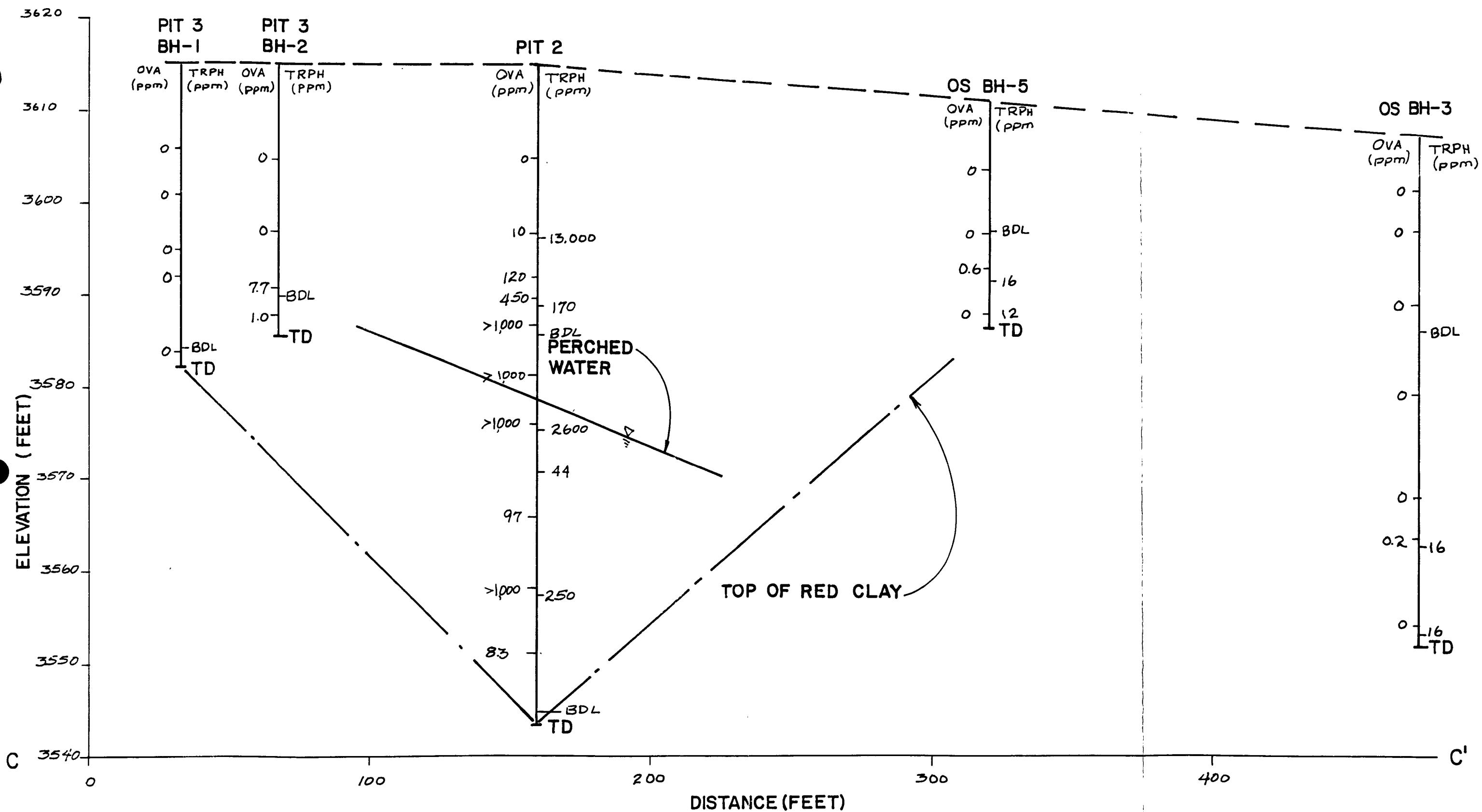
FIGURE 3

ELEVATIONS OF PERCHED GROUNDWATER  
ROSWELL COMPRESSOR STATION



SECTION A-A'	
ROSWELL COMPRESSOR STATION	
TRANSWESTERN PIPELINE COMPANY	
10-4-91	PLATE 2





2 through 4 as it relates to the red clay surface and the estimated zone for TRPH.



APPENDIX A  
BOREHOLE SAMPLE LOGS

SAMPLE LOG

Well Number Pit 1 Well Location N17 + 98 El + 76.6  
Well Owner Transwestern Pipeline Company  
Sample Logger D. Briggs, METRIC Corporation  
Driller METRIC Corporation  
Drilling Medium Hollow Stem Augers  
  
Date of Completion 7-16-91 Ground Elev. 3615.72

Depth (feet)	Thickness (feet)	Stratigraphic Description
0.0 - 7.8	7.8	Brown clay with gravels
7.8 - 8.1	0.3	Greyish tan sand
8.1 - 9.4	1.3	Black oily sand with gravel
9.4 - 12.8	3.4	No recovery
12.8 - 13.7	0.9	Black oily sand with gravels
13.7 - 14.3	0.6	Brown clay
14.3 - 14.8	0.5	Black silty sand
14.8 - 16.3	1.5	Black sand with small gravels
16.3 - 17.8	1.5	No recovery
17.8 - 19.0	1.2	Brownish grey sand with gravels
19.0 - 21.4	2.4	Grey sand with heavy gravels
21.4 - 22.8	1.4	No recovery
22.8 - 23.5	0.7	Grey sand with gravels
23.5 - 27.0	3.5	White sand with gravels
27.0 - 27.8	0.8	No recovery
27.8 - 28.5	0.7	Grey sand with gravels
28.5 - 30.6	2.1	Grey small clean gravel
30.6 - 32.8	2.2	Reddish clay
32.8 - 37.8	5.0	Red clay with black streaks
37.8 - 47.8	10.0	Red clay

SAMPLE LOG

Well Number Pit 2 Well Location N17 + 98 El + 76.6  
Well Owner Transwestern Pipeline Company  
Sample Logger D. Briggs, METRIC Corporation  
Driller METRIC Corporation  
Drilling Medium Hollow Stem Auger  
  
Date of Completion 7-17-91 Ground Elev. 3615.72

Depth (feet)	Thickness (feet)	Stratigraphic Description
0.0 - 1.8	1.8	Tan sandy gravel fill
1.8 - 2.9	1.1	No recovery
2.9 - 3.5	0.6	Tan sandy gravel fill
3.5 - 6.1	2.6	White caliche with gravels
6.1 - 7.9	1.8	No recovery
7.9 - 10.1	2.2	Tan sand with gravels
10.1 - 10.5	0.4	Reddish caliche
10.5 - 12.9	2.4	No recovery
12.9 - 13.5	0.6	Reddish caliche
13.5 - 13.9	0.4	Red clay
13.9 - 14.3	0.4	Tan sandy gravel
14.3 - 17.9	3.6	No recovery
17.9 - 18.1	0.2	Tan sandy gravel
18.1 - 18.9	0.8	Tan sand
18.9 - 19.0	0.1	Tan sandy gravel
19.0 - 22.9	3.9	No recovery
22.9 - 24.4	1.5	Tan sandy gravel
24.4 - 26.4	2.0	Grey sandy gravel
26.4 - 27.9	1.5	No recovery
27.9 - 29.3	1.4	Tan medium sand
29.3 - 31.1	1.8	Grey sandy gravel

SAMPLE LOG

Continued

Well Number Pit 2 Well Location N17 + 98 El + 76.6

(Continued from Previous Page)

Depth (feet)	Thickness (feet)	Stratigraphic Description
31.1 - 32.9	1.8	No recovery
32.9 - 36.6*	3.7	Grey sandy gravel
36.6 - 37.9	1.3	No recovery
37.9 - 40.1	2.2	Grey sand with pebbles
40.1 - 42.9	2.8	No recovery
42.9 - 50.5	7.6	Red sandy clay
50.5 - 52.9	2.4	No recovery
52.9 - 56.3	3.4	Red sandy clay
56.3 - 57.9	1.6	Grey/black medium sand
57.9 - 62.6	4.7	Red sandy clay
62.6 - 64.1	1.5	Sandy gravel
64.1 - 67.9	3.8	Red clay
67.9 - 71.6	3.7	Red clay with calcium sulfate lenses

\* Groundwater encountered at 33.7'

SAMPLE LOG

Well Number Pit 3 BH-1 Well Location N19 + 18 E1 + 31.5  
Well Owner Transwestern Pipeline Company  
Sample Logger D. Briggs, METRIC Corporation  
Driller METRIC Corporation  
Drilling Medium Hollow Stem Auger  
Date of Completion 7-18-91 Ground Elev. 3615.71

Depth (feet)	Thickness (feet)	Stratigraphic Description
0.0 - 1.6	1.6	Brown sand with gravel
1.6 - 2.4	0.8	Tan sand with gravel
2.4 - 2.8	0.4	No recovery
2.8 - 5.5	2.7	Tan sand with gravel
5.5 - 7.8	2.3	No recovery
7.8 - 11.0	3.2	Tan sand with gravel
11.0 - 12.8	1.8	No recovery
12.8 - 14.9	2.1	Tan sand with gravel
14.9 - 17.8	2.9	No recovery
17.8 - 20.2	2.4	Tan sand with gravel
20.2 - 22.8	2.6	No recovery
22.8 - 23.0	0.2	Tan sand with gravel
23.0 - 30.7	7.7	No recovery
30.7 - 32.8	2.1	White caliche with gravel

SAMPLE LOG

Well Number Pit 3 BH-2 Well Location N19 + 48 El + 38.5  
Well Owner Transwestern Pipeline Company  
Sample Logger D. Briggs, METRIC Corporation  
Driller METRIC Corporation  
Drilling Medium Hollow Stem Auger  
  
Date of Completion 7-18-91 Ground Elev. 3615.68

Depth (feet)	Thickness (feet)	Stratigraphic Description
0.0 - 2.3	2.3	Brown sand with gravel
2.3 - 6.8	4.5	Tan sand with gravel
6.8 - 7.6	0.8	No recovery
7.6 - 9.6	2.0	Tan sand
9.6 - 10.9	1.3	Tan sand with gravel
10.9 - 17.6	6.7	No recovery
17.6 - 19.2	1.6	Tan sand with gravel
19.2 - 22.6	3.4	No recovery
22.6 - 24.4	1.8	Tan sand with gravel
24.4 - 25.4	1.0	White sand with gravel and dark streaks
25.4 - 27.6	2.2	No recovery
27.6 - 29.5	1.9	White sand with gravel; caliche at bottom

SAMPLE LOG

Well Number SG-86 Well Location N17 + 10 E2 + 68.2  
Well Owner Transwestern Pipeline Company  
Sample Logger D. Briggs, METRIC Corporation  
Driller METRIC Corporation  
Drilling Medium Hollow Stem Auger  
  
Date of Completion 7-22-91 Ground Elev. 3613.52

Depth (feet)	Thickness (feet)	Stratigraphic Description
0.0 - 1.1	1.1	Brown silty sand
1.1 - 1.8	0.2	White caliche with gravel
1.8 - 2.9	1.1	No recovery
2.9 - 4.8	1.9	Tan sand with gravel
4.8 - 7.9	3.1	No recovery
7.9 - 8.9	1.0	Tan sand with gravel
8.9 - 12.9	4.0	No recovery
12.9 - 13.3	0.4	Tan sand with gravel
13.3 - 15.2	1.9	Grey sand with gravel
15.2 - 17.9	2.7	No recovery
17.9 - 21.1	3.2	Tan sand with gravel
21.1 - 22.9	1.8	No recovery
22.9 - 23.9	1.0	Grey sand with gravel
23.9 - 25.2	1.3	Tan sand with gravel
25.2 - 27.9	2.7	No recovery
27.9 - 29.4	1.5	Tan sand with large gravel
29.4 - 32.9	3.5	No recovery
32.9 - 33.6	0.7	Grey sand with gravel
33.6 - 35.9	2.3	Red clay with dark lenses
35.9 - 37.9	2.0	No recovery
37.9 - 40.7	2.8	Red clay

SAMPLE LOG

Well Number SG 91 Well Location N20 + 53.2 EO + 66.5  
Well Owner Transwestern Pipeline Company  
Sample Logger D. Briggs, METRIC Corporation  
Driller METRIC Corporation  
Drilling Medium Hollow Stem Auger  
  
Date of Completion 7-22-91 Ground Elev. 3612.28

Depth (feet)	Thickness (feet)	Stratigraphic Description
0.0 - 0.9	0.9	Brown silty sand with gravel
0.9 - 1.5	0.6	White sand with gravel
1.5 - 3.0	1.5	No recovery
3.0 - 6.0	3.0	Tan sand with gravel
6.0 - 8.0	2.0	No recovery
8.0 - 11.0	3.0	Tan sand with gravel
11.0 - 13.0	2.0	No recovery
13.0 - 14.3	1.3	Tan sand with gravel
14.3 - 17.0	2.7	Tan sand with gravel mixed with caliche
17.0 - 18.0	1.0	No recovery
18.0 - 18.8	0.8	Tan sand with gravel
18.8 - 21.5	2.7	Tan sand with gravel mixed with caliche
21.5 - 23.0	1.5	No recovery
23.0 - 26.1	3.1	Tan sand with gravel mixed with caliche
26.1 - 28.0	1.9	No recovery
28.0 - 28.2	0.2	Tan sand with gravel
28.2 - 33.0	4.8	Red clay



SAMPLE LOG

Well Number SG-349 Well Location N21 + 60.2 E0 + 79.0  
Well Owner Transwestern Pipeline Company  
Sample Logger D. Briggs, METRIC Corporation  
Driller METRIC Corporation  
Drilling Medium Hollow Stem Auger  
  
Date of Completion 7-25-91 Ground Elev. 3615.56

Depth (feet)	Thickness (feet)	Stratigraphic Description
0.0 - 1.2	1.2	Brown sandy loam with gravel
1.2 - 1.8	0.6	Light brown silty sand with gravel
1.8 - 2.9	1.1	No recovery
2.9 - 4.6	1.7	Light brown silty sand with gravel
4.6 - 7.9	3.3	No recovery
7.9 - 10.3	2.4	Tan sand with gravel mixed with caliche
10.3 - 12.9	2.6	No recovery
12.9 - 14.8	1.9	Tan sand with gravel
14.8 - 17.9	3.1	No recovery
17.9 - 19.0	1.1	Tan sand with gravel
19.0 - 19.8	0.8	Red silty sand
19.8 - 21.6	1.8	Tan sand with gravel
21.6 - 22.9	1.3	No recovery
22.9 - 26.3	3.4	Tan sand with gravel
26.3 - 27.9	1.6	No recovery
27.9 - 29.7	1.8	Tan sand with gravel mixed with caliche
29.7 - 30.4	0.7	Red clay

SAMPLE LOG

Well Number SG 360 Well Location N22 + 61.5 El + 66.8  
Well Owner Transwestern Pipeline Company  
Sample Logger D. Briggs, METRIC Corporation  
Driller METRIC Corporation  
Drilling Medium Hollow Stem Auger  
  
Date of Completion 7-25-91 Ground Elev. 3610.83

Depth (feet)	Thickness (feet)	Stratigraphic Description
0.0 - 1.0	1.0	Brown sandy loam
1.0 - 2.5	1.5	White silty sand with gravel
2.5 - 2.9	0.4	No recovery
2.9 - 5.1	2.2	White silty sand with gravel
5.1 - 7.9	2.8	No recovery
7.9 - 9.9	2.0	Tan sand with gravel
9.9 - 12.9	3.0	No recovery
12.9 - 14.7	1.8	Tan sand with gravel
14.7 - 17.9	3.2	No recovery
17.9 - 19.6	1.7	Tan fine sand with gravel
19.6 - 21.0	1.4	Tan sand with gravel
21.0 - 22.9	1.9	No recovery
22.9 - 25.3	2.4	Tan sand with gravel
25.3 - 27.9	2.6	No recovery
27.9 - 28.9	1.0	Tan sand with gravel
28.9 - 29.4	0.5	Red clay

SAMPLE LOG

Well Number SG 361 Well Location N22 + 61.5 E2 + 77.8  
Well Owner Transwestern Pipeline Company  
Sample Logger D. Briggs, METRIC Corporation  
Driller METRIC Corporation  
Drilling Medium Hollow Stem Auger  
  
Date of Completion 7-25-91 Ground Elev. 3610.15

Depth (feet)	Thickness (feet)	Stratigraphic Description
0.0 - 0.5	0.5	Brown sandy loam
0.5 - 2.0	1.5	White silty sand with gravel
2.0 - 3.2	1.2	No recovery
3.2 - 4.0	0.8	White silty sand with gravel
4.0 - 5.3	1.3	Tan sand with gravel
5.3 - 8.2	2.9	No recovery
8.2 - 10.9	2.7	Tan sand with gravel
10.9 - 13.2	2.3	No recovery
13.2 - 16.4	3.2	Tan sand with gravel
16.4 - 18.2	1.8	No recovery
18.2 - 19.8	1.6	Caliche with pebbles
19.8 - 23.2	3.4	No recovery
23.2 - 25.4	2.2	Tan sand with gravel mixed with caliche
25.4 - 28.2	2.8	No recovery
28.2 - 28.5	0.3	Cemented pebbles
28.5 - 29.6	1.1	Tan sand with gravel
29.6 - 33.2	3.6	No recovery
33.2 - 35.4	2.2	Tan sand with gravel
35.4 - 38.2	2.8	No recovery
38.2 - 38.9*	0.7	Tan sand with gravel
38.9 - 41.3	2.4	Red sandy clay

\* Groundwater encountered at 38.9'

**METRIC**  
Corporation

**SAMPLE LOG**

Borehole Number OS BH-1 Borehole Location N16 + 64.9 E3 + 75.9  
Property Owner Transwestern Pipeline Company  
Sample Logger D. Briggs, METRIC Corporation  
Driller METRIC Corporation  
Drilling Medium Hollow Stem Auger  
  
Date of Completion 7-22-91 Ground Elev. 3622.30

Depth (feet)	Thickness (feet)	Stratigraphic Description
0.0 - 0.8	0.8	Brown sandy loam
0.8 - 2.0	1.2	White caliche
2.0 - 2.9	0.9	No recovery
2.9 - 4.8	1.9	Tan sand with gravel mixed with caliche
4.8 - 7.9	3.1	No recovery
7.9 - 9.4	1.5	Tan sand with gravel
9.4 - 12.9	3.5	No recovery
12.9 - 15.1	2.2	Tan sand with gravel
15.1 - 16.1	1.0	Tan sand with gravel mixed with caliche
16.1 - 17.9	1.8	No recovery
17.9 - 19.1	1.2	Tan sand with gravel
19.1 - 20.3	1.2	Tan sand with gravel mixed with caliche
20.3 - 22.9	2.6	No recovery
22.9 - 23.5	0.6	Grey gravel
23.5 - 25.5	2.0	Tan sand with gravel
25.5 - 27.9	2.4	No recovery
27.9 - 29.1	1.2	White caliche with large gravel
29.1 - 32.9	3.8	No recovery
32.9 - 34.5	1.6	Tan medium sand with gravel
34.5 - 35.7	1.2	Red clay

SAMPLE LOG

Well Number OS BH-2 Well Location N18 + 26.0 E3 + 79.0  
Well Owner Transwestern Pipeline Company  
Sample Logger D. Briggs, METRIC Corporation  
Driller METRIC Corporation  
Drilling Medium Hollow Stem Auger  
  
Date of Completion 7-24-91 Ground Elev. 3618.39

Depth (feet)	Thickness (feet)	Stratigraphic Description
0.0 - 0.6	0.6	Brown sandy loam
0.6 - 2.0	1.4	White caliche with gravel
2.0 - 2.8	0.8	No recovery
2.8 - 3.9	1.1	White caliche with gravel
3.9 - 4.4	0.5	Tan sand with gravel
4.4 - 7.8	3.4	No recovery
7.8 - 9.8	2.0	Tan sand with gravel
9.8 - 10.3	0.5	Tan sand with gravel
10.3 - 17.8	7.5	No recovery
17.8 - 22.1	4.3	Tan sand with gravel
22.1 - 22.8	0.7	Red clay
22.8 - 23.9	1.1	Red sandy clay
23.9 - 27.8	3.9	No recovery
27.8 - 31.7	3.9	Red clay
31.7 - 32.8	1.1	No recovery
32.8 - 35.5	2.7	Red sandy clay
35.5 - 37.8	2.3	No recovery
37.8 - 41.0	3.2	Red silty sand
41.0 - 42.1	1.1	Red silty clay sand
42.1 - 42.8	0.7	No recovery

SAMPLE LOG

Continued

Well Number OS BH-2 Well Location N18 + 26.0 E3 + 79.0

(Continued from Previous Page)

Depth (feet)	Thickness (feet)	Stratigraphic Description
42.8 - 45.1	2.3	Red silty clay sand
45.1 - 46.1	1.0	Red clay
46.1 - 47.8	1.7	No recovery
47.8 - 48.9	1.1	Red clay
48.9 - 49.1	0.2	Red sand
49.1 - 49.7	0.6	Red clay
49.7 - 52.8	3.1	No recovery
52.8 - 54.4	1.6	Tan silty sand
54.4 - 55.4	1.0	Grey silty sand
55.4 - 55.7	0.3	Red clay with black marbling
55.7 - 57.8	2.1	No recovery
57.8 - 58.6*	0.8	Grey silty sand
58.6 - 61.8	3.2	Red clay with black marbling
61.8 - 62.8	1.0	No recovery
62.8 - 64.6	1.8	Red clay
64.6 - 66.3	1.7	Deep red silty sand
66.3 - 67.8	1.5	No recovery
67.8 - 70.6	2.8	Red silty sand with gravel

\* Groundwater encountered at 57.8'

SAMPLE LOG

Well Number OS BH-3 Well Location N21 + 08.7 E4 + 95.1  
Well Owner Transwestern Pipeline Company  
Sample Logger D. Briggs, METRIC Corporation  
Driller METRIC Corporation  
Drilling Medium Hollow Stem Auger  
  
Date of Completion 7-26-91 Ground Elev. 3607.04

Depth (feet)	Thickness (feet)	Stratigraphic Description
0.0 - 1.2	1.2	Brown sandy loam
1.2 - 2.3	1.1	Light brown silty sand
2.3 - 3.0	0.7	No recovery
3.0 - 4.5	1.5	Light brown silty sand
4.5 - 6.0	1.5	Light brown sandy clay
6.0 - 7.4	1.4	Light brown sand with white salts
7.4 - 8.0	0.6	No recovery
8.0 - 9.6	1.6	Light brown sandy clay with white salts
9.6 - 10.2	0.4	White caliche with gravel
10.2 - 11.8	1.6	Light red sandy clay with gravel
11.8 - 13.0	1.2	No recovery
13.0 - 13.9	0.9	Tan sand with gravel
13.9 - 17.8	3.9	Red silty clay with white salts
17.8 - 18.0	0.2	No recovery
18.0 - 19.6	1.6	Red silty clay with gypsum nodules
19.6 - 20.8	1.2	Tan silty sand
20.8 - 21.2	0.4	Red silty clay with gypsum nodules
21.2 - 23.0	1.8	No recovery
23.0 - 24.7	1.7	Red silty clay with gypsum nodules
24.7 - 27.5	2.8	Brown silty sand

SAMPLE LOG

Continued

Well Number OS BH-3 Well Location N21 + 08.7 E4 + 95.1

(Continued from Previous Page)

Depth (feet)	Thickness (feet)	Stratigraphic Description
27.5 - 28.0	0.5	No recovery
28.0 - 33.0	5.0	Brown silty clay
33.0 - 37.6	4.6	Brown silty clay
37.6 - 38.0	0.4	No recovery
38.0 - 39.1	1.1	Brown silty clay
39.1 - 41.4	2.3	Reddish silty clay
41.4 - 43.0	1.6	No recovery
43.0 - 44.5	1.5	Reddish silty clay
44.5 - 44.8	0.3	White gypsum
4.8 - 45.3	0.5	Reddish silty clay
45.3 - 48.0	2.7	No recovery
48.0 - 54.5	6.5	White gypsum or caliche
54.5 - 55.0	0.5	Reddish white very fine silty sand



SAMPLE LOG

Borehole Number OS BH-4 Borehole Location N21 + 81.6 E3 + 86.6  
Property Owner Transwestern Pipeline Company  
Sample Logger D. Briggs, METRIC Corporation  
Driller METRIC Corporation  
Drilling Medium Hollow Stem Auger  
  
Date of Completion 7-29-91 Ground Elev. 3604.95

Depth (feet)	Thickness (feet)	Stratigraphic Description
0.0 - 1.2	1.2	Dark brown sandy loam
1.2 - 2.5	1.3	No recovery
2.5 - 3.5	1.0	Brown sandy clay
3.5 - 7.5	4.0	Brown sandy clay with gypsum nodules
7.5 - 10.0	2.5	Brown silty sand with gypsum nodules
10.0 - 12.5	2.5	No recovery
12.5 - 17.5	5.0	Brown silty sand with gravel
17.5 - 19.2	1.7	Tan sand with gravel
19.2 - 22.5	3.3	No recovery
22.5 - 24.4	1.9	Tan sand with gravel
24.4 - 24.9	0.5	Red clay
24.9 - 27.5	2.6	No recovery
27.5 - 31.0	3.5	Red clay with white nodules

**METRIC**  
Corporation

SAMPLE LOG

Borehole Number OS BH-5 Borehole Location N19 + 92.0 E3 + 89.5  
Property Owner Transwestern Pipeline Company  
Sample Logger D. Briggs, METRIC Corporation  
Driller METRIC Corporation  
Drilling Medium Hollow Stem Auger  
  
Date of Completion 7-30-91 Ground Elev. 3611.12

Depth (feet)	Thickness (feet)	Stratigraphic Description
0.0 - 0.9	0.9	Brown sandy loam
0.9 - 1.5	0.6	Tan silty sand
1.5 - 2.5	1.0	No recovery
2.5 - 3.3	0.8	Tan silty sand with gravel
3.3 - 4.0	0.7	White caliche with gravel
4.0 - 7.5	3.5	No recovery
7.5 - 9.5	2.0	Tan silty sand with gravel
9.5 - 12.5	3.0	No recovery
12.5 - 14.2	1.7	Tan silty sand with gravel
14.2 - 14.7	0.5	White silty sand with gravel
14.7 - 17.5	2.8	No recovery
17.5 - 19.9	2.4	White caliche with gravel
19.9 - 20.1	0.2	Red clay
20.1 - 22.5	2.4	No recovery
22.5 - 24.8	2.3	Red clay with black nodules

**METRIC**  
Corporation

SAMPLE LOG

Borehole Number OS BH-6 Borehole Location N18 + 17.5 E4 + 60.9  
Property Owner Transwestern Pipeline Company  
Sample Logger D. Briggs, METRIC Corporation  
Driller METRIC Corporation  
Drilling Medium Hollow Stem Auger  
  
Date of Completion 7-30-91 Ground Elev. 3619.15

Depth (feet)	Thickness (feet)	Stratigraphic Description
0.0 - 1.1	1.1	Brown sandy loam
1.1 - 1.7	0.6	Tan sand with gravel
1.7 - 2.6	0.9	No recovery
2.6 - 4.0	1.4	Tan sand with gravel
4.0 - 7.6	3.6	No recovery
7.6 - 9.7	2.1	Tan sand with large gravel
9.7 - 12.6	2.9	No recovery
12.6 - 14.7	2.1	Tan sand with gravel
14.7 - 17.6	2.9	No recovery
17.6 - 19.2	1.6	Tan sand with gravel
19.2 - 22.6	3.4	No recovery
22.6 - 24.0	1.4	Gravel ( $\frac{1}{2}$ " - 2")
24.0 - 27.6	3.6	No recovery
27.6 - 34.7	7.1	Tan sand with gravel
34.7 - 37.6	2.9	No recovery
37.6 - 39.6	2.0	Tan sand with gravel
39.6 - 45.0	5.4	No recovery
45.0 - 46.4	1.4	Tan sand with gravel

SAMPLE LOG

Continued

Well Number OS BH-6 Well Location N18 + 17.5 E4 + 60.9

(Continued from Previous Page)

Depth (feet)	Thickness (feet)	Stratigraphic Description
46.4 - 47.6	1.2	Red silty sand
47.6 - 52.6	5.0	No recovery
52.6 - 55.3*	2.7	Red silty sand with black marbling
55.3 - 57.6	2.3	No recovery
57.6 - 60.7	3.1	Red silty sand with black marbling
60.7 - 62.6	1.9	No recovery
62.6 - 66.1	3.5	Red silty clay to sand with black marbling
66.1 - 67.0	0.9	Red silty clay with gravel
67.0 - 67.6	0.6	No recovery
67.6 - 72.6	5.0	Red silty clay with gravel and sand lenses

\* Groundwater encountered at 54.3'

**METRIC**  
Corporation

SAMPLE LOG

Borehole Number OS BH-7 Borehole Location N18 + 27.6 E5 + 05.7  
Property Owner Transwestern Pipeline Company  
Sample Logger D. Briggs, METRIC Corporation  
Driller METRIC Corporation  
Drilling Medium Hollow Stem Auger  
  
Date of Completion 7-31-91 Ground Elev. 3616.69

Depth (feet)	Thickness (feet)	Stratigraphic Description
0.0 - 0.8	0.8	Brown silty clay sand
0.8 - 1.7	0.9	White silty sand with gravel
1.7 - 2.0	0.3	No recovery
2.0 - 4.8	2.8	Tan sand with gravel mixed with caliche
4.8 - 7.0	2.2	No recovery
7.0 - 10.2	3.2	Tan sand with gravel .
10.2 - 12.0	1.8	No recovery
12.0 - 15.1	3.1	Tan sand with gravel
15.1 - 17.0	1.9	No recovery
17.0 - 18.8	1.8	Tan sand with gravel
18.8 - 20.1	1.3	Tan sand with gravel mixed with caliche
20.1 - 22.0	1.9	No recovery
22.0 - 32.0	10.0	Red sandy clay
32.0 - 34.0	2.0	Red silty clay
34.0 - 37.0	3.0	No recovery
37.0 - 38.1	1.1	Red clay
38.1 - 40.3	2.2	Red clay with gravel

**METRIC**  
Corporation

**SAMPLE LOG**

Borehole Number OS BH-8      Borehole Location N16 + 71.9    E4 + 60.8  
Property Owner Transwestern Pipeline Company  
Sample Logger D. Briggs, METRIC Corporation  
Driller METRIC Corporation  
Drilling Medium Hollow Stem Auger  
  
Date of Completion 7-31-91      Ground Elev. 3620.04

Depth (feet)	Thickness (feet)	Stratigraphic Description
0.0 - 1.0	1.0	Brown silty sand
1.0 - 2.3	1.3	White silty sand and caliche with gravel
2.3 - 2.6	0.3	No recovery
2.6 - 3.7	1.1	White silty sand and caliche with gravel
3.7 - 6.4	2.7	Tan sand with gravel and caliche
6.4 - 7.6	1.2	No recovery
7.6 - 10.8	3.2	Tan sand with gravel and caliche
10.8 - 12.6	1.8	No recovery
12.6 - 14.8	2.2	Tan sand with gravel
14.8 - 16.0	1.2	Tan sand with pebbles
16.0 - 17.6	1.6	No recovery
17.6 - 21.2	3.6	Tan sand with gravel
21.2 - 22.6	1.4	No recovery
22.6 - 26.6	4.0	Tan sand with gravel
26.6 - 27.6	1.0	No recovery
27.6 - 30.6	3.0	Tan sand with large gravel mixed with cemented pebbles
30.6 - 32.6	2.0	No recovery

SAMPLE LOG

Continued

Well Number OS BH-8 Well Location N16 + 71.9 E4 + 60.8

(Continued from Previous Page)

Depth (feet)	Thickness (feet)	Stratigraphic Description
32.6 - 33.9	1.3	Tan sand with gravel
33.9 - 35.9	2.0	Red sandy clay
35.9 - 37.6	1.7	No recovery
37.6 - 39.6	2.0	Red clay
39.6 - 42.2	2.6	Red fine sand
42.2 - 42.6	0.4	No recovery
42.6 - 44.1	1.5	Red very fine silty sand
44.1 - 47.6	3.5	No recovery
47.6 - 49.9*	2.3	Red very fine silty sand

\* Groundwater encountered at 49'

**METRIC**  
Corporation

**SAMPLE LOG**

Borehole Number OS BH-9      Borehole Location N18 + 91.6    E4 + 67.2  
Property Owner Transwestern Pipeline Company  
Sample Logger D. Briggs, METRIC Corporation  
Driller METRIC Corporation  
Drilling Medium Hollow Stem Auger  
  
Date of Completion 8-1-91      Ground Elev. 3614.77

Depth (feet)	Thickness (feet)	Stratigraphic Description
0.0 - 0.8	0.8	Brown silty loam
0.8 - 1.6	0.8	White caliche with gravel
1.6 - 2.5	0.9	No recovery
2.5 - 5.5	3.0	White caliche with gravel
5.5 - 7.5	2.0	No recovery
7.5 - 11.4	3.9	Tan sand with gravel mixed with caliche
11.4 - 12.5	1.1	No recovery
12.5 - 15.5	3.0	Tan sand with gravel mixed with caliche
15.5 - 17.5	2.0	No recovery
17.5 - 20.3	2.8	Tan sand with gravel mixed with caliche
20.3 - 22.5	2.2	No recovery
22.5 - 25.4	2.9	White caliche with gravel
25.4 - 27.5	2.1	No recovery
27.5 - 31.0	3.5	White caliche with gravel
31.0 - 32.0	1.0	Red clay
32.0 - 32.5	0.5	Red silty sand
32.5 - 35.7	3.2	Red silty clayey sand



SAMPLE LOG

Continued

Well Number OS BH-9 Well Location N18 + 91.6 E4 + 67.2

(Continued from Previous Page)

Depth (feet)	Thickness (feet)	Stratigraphic Description
35.7 - 37.5	1.8	No recovery
37.5 - 39.7	2.2	Red silty sand
39.7 - 42.5	2.8	No recovery
42.5 - 43.4	0.9	Red sandy clay
43.4 - 47.5	4.1	No recovery
47.5 - 48.3	0.8	Red sandy clay
48.3 - 49.0*	0.7	Red gravelly clay
49.0 - 49.7	0.7	Red clay

\* Groundwater encountered at 48.5'

**SAMPLE LOG**

Borehole Number BH-10 Borehole Location Station #9  
Property Owner Transwestern Pipeline Company  
Sample Logger Don Briggs, METRIC Corporation  
Driller METRIC Corporation  
Drilling Medium Hollow Stem Auger  
  
Date of Completion 11/15/91 Ground Elev. 3617.33' Local

Depth (feet)	Thickness (feet)	Stratigraphic Description
0 - 0.3	0.3	Brown silty sand with gravel
0.3 - 1.5	1.2	Tan sand with gravel
1.5 - 2.8	1.3	No recovery
2.8 - 4.2	1.4	Tan sand with gravel
4.2 - 7.8	3.6	No recovery
7.8 - 9.6	1.8	Tan sand with gravel
9.6 - 12.8	3.2	No recovery
12.8 - 14.6	1.8	Tan sand with gravel
14.6 - 14.8	0.2	Brown sandy clay
14.8 - 17.8	3.0	No recovery
17.8 - 22.8	5.0	Brown sandy clay
22.8 - 23.9	1.1	Brown sandy clay
23.9 - 25.0	1.1	Brown sandy clay with gravel
25.0 - 25.3	0.3	Conglomerate
25.3 - 25.5	0.2	Purple sandstone
25.5 - 27.8	2.3	No recovery
27.8 - 31.6	3.8	Red sandy clay
31.6 - 32.8	1.2	No recovery
32.8 - 37.8	5.0	Red sandy clay

SAMPLE LOG

Borehole Number BH-11 Borehole Location Station #9  
Property Owner Transwestern Pipeline Company  
Sample Logger Don Briggs, METRIC Corporation  
Driller METRIC Corporation  
Drilling Medium Hollow Stem Auger  
  
Date of Completion 11/15/91 Ground Elev. 3617.60' Local

Depth (feet)	Thickness (feet)	Stratigraphic Description
0 - 0.9	0.9	Brown silty sand with gravel
0.9 - 1.6	0.7	White sandy caliche
1.6 - 2.8	1.2	No recovery
2.8 - 3.8	1.0	White sandy caliche with gravel
3.8 - 7.8	4.0	No recovery
7.8 - 9.7	1.9	Tan sand with gravel
9.7 - 12.8	3.1	No recovery
12.8 - 14.5	1.7	Tan sand with gravel
14.5 - 17.8	3.3	No recovery
17.8 - 18.8	1.0	Tan sand with gravel
18.8 - 19.3	0.5	Brown sandy clay with gravel
19.3 - 27.8	8.5	No recovery
27.8 - 28.6	0.8	Tan sugar sand
28.6 - 28.9	0.3	Tan sugar sand with gravel
28.9 - 29.4	0.5	Red sandy clay
29.4 - 32.8	3.4	No recovery
32.8 - 36.3	3.5	Red sandy clay
36.3 - 37.8	1.5	Red clay

APPENDIX B

LABORATORY REPORTS AND PURGEABLE HALOCARBON COMPOUNDS  
AND  
AROMATIC VOLATILE ORGANIC COMPOUNDS

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REPORT  
07/31/91 14:28:41

Work Order # 91-07-215

REPORT ENRON/TRANSWESTERN PIPELINE  
TO 6381 N. MAIN STREET  
P.O. BOX 1717  
ROSWELL, NM 88202-1717  
ATTN LARRY CAMPBELL  
  
CLIENT ENR03 SAMPLES 10  
COMPANY ENRON/TRANSWESTERN PIPELINE  
FACILITY ROSWELL, NEW MEXICO  
ENR03

PREPARED Assaigai Analytical Labs  
BY 7300 Jefferson NE  
Albuquerque, NM 87109  
  
ATTN SYED RIZVI  
PHONE (505) 345-8964

Syed Rizvi  
CERTIFIED BY  
  
CONTACT LAB MANAGER

WORK ID STATION 9 7752  
TAKEN \_\_\_\_\_  
TRANS FED X NEXT DAY  
TYPE SOIL  
P.O. # \_\_\_\_\_  
INVOICE under separate cover

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

## SAMPLE IDENTIFICATION

01 \_\_\_\_\_  
02 \_\_\_\_\_  
03 PIT I 2.8-3.0  
04 PIT I 9.2-9.4  
05 PIT I 13.5-13.7  
06 PIT I 18.8 - 19.0  
07 PIT I 26.8 - 27.0  
08 PIT I 30.6-30.8  
09 PIT I 41.6 - 41.8  
10 PIT I 43.5-43.7

## TEST CODES and NAMES used on this workorder

8010 S PURGEABLE HALOCARBONS-SOIL  
8020 AROMATIC VOLATILE ORGANICS  
BTX BENZENE, TOLUENE, EBENZ, XYLE  
TRPH TOTAL REC PET HYDROCARBONS



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## REPORT Results by Sample

Work Order # 91-07-215

SAMPLE ID PIT I 2.8-3.0

FRACTION 03A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROENZENE	<0.1	0.1
1,3-DICHLOROENZENE	<0.1	0.1
1,4-DICHLOROENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	3.2	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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REPORT  
Results by Sample

Work Order # 91-07-115  
Continued From Above

SAMPLE ID PIT I 2.8-3.0 FRACTION 03A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category \_\_\_\_\_

Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 07/23/91  
DATE RUN \_\_\_\_\_ 07/23/91  
ANALYST D/R  
UNITS \_\_\_\_\_ MG/KG

## Results by Sample

SAMPLE ID PIT I 9.2-9.4FRACTION 04ATEST CODE 8010 SNAME PURGEABLE HALOCARBONS-SOILDate & Time Collected not specified

Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	19	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	0.26	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1





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## REPORT

### Results by Sample

Work Order # 91-07-215

Continued From Above

SAMPLE ID PIT I 9.2-9.4

FRACTION 04A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category \_\_\_\_\_

### Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 07/23/91

DATE RUN \_\_\_\_\_ 07/23/91

ANALYST D/R

UNITS \_\_\_\_\_ MG/KG



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REPORT  
Results by Sample

Work Order # 91-07-215

SAMPLE ID PIT I 13.5-13.7

FRACTION 05A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	0.20	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	0.59	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	18	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	0.33	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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REPORT  
Results by Sample

Work Order # 91-07-215  
Continued From Above

SAMPLE ID PIT I 13.5-13.7 FRACTION 05A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category \_\_\_\_\_

Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 07/23/91  
DATE RUN \_\_\_\_\_ 07/23/91  
ANALYST D/R  
UNITS \_\_\_\_\_ MG/KG



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REPORT

Work Order # 91-07-215

Results by Sample

SAMPLE ID PIT I 18.8 - 19.0FRACTION 06ATEST CODE 8010 SNAME PURGEABLE HALOCARBONS-SOILDate & Time Collected not specified

Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	0.33	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	0.87	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1

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REPORT

Results by Sample

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Continued From Above

SAMPLE ID PIT I 18.8 - 19.0FRACTION 06A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category \_\_\_\_\_

## Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 07/23/91

DATE RUN \_\_\_\_\_ 07/23/91

ANALYST D/R

UNITS \_\_\_\_\_ MG/KG



Results by Sample

SAMPLE ID PIT I 26.8 - 27.0 FRACTION 07A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
 Date & Time Collected not specified Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	0.16	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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REPORT  
Results by Sample

Work Order # 91-07-215  
Continued From Above

SAMPLE ID PIT I 26.8 - 27.0

FRACTION 07A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category \_\_\_\_\_

Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 07/23/91  
DATE RUN \_\_\_\_\_ 07/23/91  
ANALYST D/R  
UNITS \_\_\_\_\_ MG/KG



## Results by Sample

SAMPLE ID PIT I 30.6-30.8FRACTION 08A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1





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REPORT

Results by Sample

Work Order # 91-07-215

Continued From Above

SAMPLE ID PIT I 30.6-30.8FRACTION 08A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category \_\_\_\_\_

## Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 07/23/91

DATE RUN \_\_\_\_\_ 07/23/91

ANALYST D/R

UNITS \_\_\_\_\_ MG/KG

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## REPORT Results by Sample

Work Order # 91-07-215

SAMPLE ID PIT I 41.6 - 41.8 FRACTION 09A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<u>&lt;0.1</u>	<u>0.1</u>
BROMOFORM	<u>&lt;0.1</u>	<u>0.1</u>
BROMOMETHANE	<u>&lt;0.1</u>	<u>0.1</u>
CARBON TETRACHLORIDE	<u>&lt;0.1</u>	<u>0.1</u>
CHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
CHLOROETHANE	<u>&lt;0.1</u>	<u>0.1</u>
CHLOROFORM	<u>&lt;0.1</u>	<u>0.1</u>
2-CHLOROETHYL VINYL ETHER	<u>&lt;0.1</u>	<u>0.1</u>
CHLOROMETHANE	<u>&lt;0.1</u>	<u>0.1</u>
DIBROMOCHLOROMETHANE	<u>&lt;0.1</u>	<u>0.1</u>
1,2-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,3-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,4-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
DICHLORODIFLUOROMETHANE	<u>&lt;0.1</u>	<u>0.1</u>
1,1-DICHLOROETHANE	<u>&lt;0.1</u>	<u>0.1</u>
1,2-DICHLOROETHANE	<u>&lt;0.1</u>	<u>0.1</u>
1,1-DICHLOROETHENE	<u>&lt;0.1</u>	<u>0.1</u>
trans-1,2-DICHLOROETHENE	<u>&lt;0.1</u>	<u>0.1</u>
1,2-DICHLOROPROPANE	<u>&lt;0.1</u>	<u>0.1</u>
cis-1,3-DICHLOROPROPENE	<u>&lt;0.1</u>	<u>0.1</u>
1,1,2,2-TETRACHLOROETHANE	<u>&lt;0.1</u>	<u>0.1</u>
trans-1,3-DICHLOROPROPENE	<u>&lt;0.1</u>	<u>0.1</u>
METHYLENE CHLORIDE	<u>&lt;0.1</u>	<u>0.1</u>
1,1,1-TRICHLOROETHANE	<u>&lt;0.1</u>	<u>0.1</u>
1,1,2-TRICHLOROETHANE	<u>&lt;0.1</u>	<u>0.1</u>
TETRACHLOROETHENE	<u>&lt;0.1</u>	<u>0.1</u>
TRICHLOROFLUOROMETHANE	<u>&lt;0.1</u>	<u>0.1</u>
TRICHLOROETHENE	<u>&lt;0.1</u>	<u>0.1</u>
VINYL CHLORIDE	<u>&lt;0.1</u>	<u>0.1</u>



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Results by Sample

Work Order # 91-07-215

Continued From Above

SAMPLE ID PIT I 41.6 - 41.8

FRACTION 09A

TEST CODE 8010 S

NAME PURGEABLE HALOCARBONS-SOIL

Date & Time Collected not specified

Category \_\_\_\_\_

Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 07/23/91

DATE RUN \_\_\_\_\_ 07/23/91

ANALYST D/R

UNITS \_\_\_\_\_ MG/KG



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## REPORT

Work Order # 91-07-215

## Results by Sample

SAMPLE ID PIT I 41.6 - 41.8 FRACTION 09A TEST CODE 8020 NAME AROMATIC VOLATILE ORGANICS  
Date & Time Collected not specified Category \_\_\_\_\_

PARAMETER	RESULT	DET LIMIT
BENZENE	<u>&lt;0.1</u>	<u>0.1</u>
CHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,4-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,3-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,2-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
ETHYL BENZENE	<u>&lt;0.1</u>	<u>0.1</u>
TOLUENE	<u>&lt;0.1</u>	<u>0.1</u>
XYLENES	<u>&lt;0.1</u>	<u>0.1</u>

## Notes and Definitions for this Report:

EXTRACTED 07/23/91  
DATE RUN 07/23/91  
ANALYST DD  
UNITS MG/KG



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REPORT  
Results by Sample

Work Order # 91-07-215

SAMPLE ID PIT I 43.5-43.7 FRACTION 10A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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REPORT

Results by Sample

Work Order # 91-07-215

Continued From Above

SAMPLE ID PIT I 43.5-43.7FRACTION 10A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category \_\_\_\_\_

## Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 07/23/91

DATE RUN \_\_\_\_\_ 07/23/91

ANALYST D/R

UNITS \_\_\_\_\_ MG/KG

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REPORT

Work Order # 91-07-215

## Results by Sample

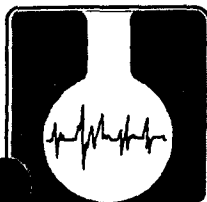
SAMPLE ID PIT I 43.5-43.7FRACTION 10A TEST CODE 8020 NAME AROMATIC VOLATILE ORGANICS  
Date & Time Collected not specified Category \_\_\_\_\_

PARAMETER	RESULT	DET LIMIT
BENZENE	<u>&lt;0.1</u>	<u>0.1</u>
CHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,4-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,3-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,2-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
ETHYL BENZENE	<u>&lt;0.1</u>	<u>0.1</u>
TOLUENE	<u>&lt;0.1</u>	<u>0.1</u>
XYLENES	<u>&lt;0.1</u>	<u>0.1</u>

## Notes and Definitions for this Report:

EXTRACTED 07/23/91  
DATE RUN 07/23/91  
ANALYST DD  
UNITS MG/KG





# ASSAIGAI ANALYTICAL LABORATORIES

## WORK ORDER 7752

<input type="checkbox"/> HAZARDOUS <input type="checkbox"/> NON-HAZARDOUS		DATE RECEIVED <u>7/18/91</u>	ESTIMATED COST
CUSTOMER P.O. NUMBER		TIME RECEIVED <u>9:15</u>	DUE DATE <u>8/1/91</u>
<b>ACCOUNT INFORMATION</b>			
CUSTOMER'S NAME <u>ENRON / TRANSCONTINENTAL INSURANCE</u>		CONTACT <u>LARRY CAMPBELL</u>	
ADDRESS		PHONE NUMBER	
CITY / STATE / ZIP <u>Irving, TX</u>			
<b>PARTY RESPONSIBLE FOR PAYMENT IF OTHER THAN ABOVE</b>			<b>ACCOUNT STATUS</b>
NAME		CONTACT	
ADDRESS		PHONE NUMBER	
CITY / STATE / ZIP		PAYMENT REC'D. <u>  </u> OPEN ACCOUNT <u>  </u> CASH <u>  </u> CHECK NUMBER <u>  </u>	
SPECIAL BILLING INSTRUCTIONS			
<b>SAMPLE INFORMATION</b>			
TYPE OF SAMPLE	NO. OF SAMPLES	*TURN AROUND TIME	SAMPLE IDENTIFICATION AND / OR SAMPLE SITE
<input type="checkbox"/> WATER	<u>10</u>	<input type="checkbox"/> REGULAR (10 WKG DAYS)	<u>Station 9 - Gas Tank</u>
<input checked="" type="checkbox"/> SOIL		<input type="checkbox"/> RUSH (3 DAYS)	<u>Station 9 - Pit 1</u>
<input type="checkbox"/> OIL	NO. OF CONTAINERS	<input type="checkbox"/> EMERGENCY (STAT)	
<input type="checkbox"/> SLUDGE	<u>10</u>		
<input type="checkbox"/> OTHER			
*(SUBJECT TO WORK LOG)			
SAMPLE DELIVERED BY <u>Jack Y. Newland</u>		SIGNATURE <u>Jack Y. Newland</u>	DATE <u>7/18/91</u>
<b>ANALYSIS REQUEST</b>			
WORK DESCRIPTION			
<u>TPH, BTEX 8010 8020 SO CofC.</u>			
SPECIAL INSTRUCTIONS			
BILLING: <input type="checkbox"/> PICKUP <input type="checkbox"/> MAIL		LOGGED IN BY	



TRANSWESTERN PIPELINE COMPANY

CHAIN OF CUSTODY

District: ROSWELL

Date: 7-17-91

Sample Location  
Valve or Receiver No.

Vol. Collect.  
During Flush

Sampler

STATION 9-GAS TANK  
STATION 9-PIT 1

<u>SAMPLE ID NUMBER</u>	<u>SOLVENT USED</u>	<u>SAMPLE ICED</u>	<u>ANALYSES REQUESTED</u>
<u>GAS TANK Composite</u>		<u>YES</u>	<u>TPH, BTEX</u>
<u>0-1.6, 2.8-4.2, 7.8-9.2</u>		<u>YES</u>	<u>TPH, BTEX</u>
<u>GAS TANK 16.0-16.3</u>		<u>YES</u>	<u>TPH, BTEX</u>
<u>PIT 1 2.8-3.0</u>		<u>YES</u>	<u>8010</u>
<u>PIT 1 9.2-9.4</u>		<u>YES</u>	<u>8010</u>
<u>PIT 1 13.5-13.7</u>		<u>YES</u>	<u>8010</u>
<u>PIT 1 18.8-19.0</u>		<u>YES</u>	<u>8010</u>
<u>PIT 1 24.8-27.0</u>		<u>YES</u>	<u>8010</u>
<u>PIT 1 30.6-30.8</u>		<u>YES</u>	<u>8010</u>
<u>PIT 1 41.6-41.8</u>		<u>YES</u>	<u>8010, 8020</u>
<u>PIT 1 43.5-43.7</u>		<u>YES</u>	<u>8010, 8020</u>

Relinquished By EARL SHANLEY / TW PL CO.

Date 7-17-91

Relinquished To FED-X

Date 7-17-91

Relinquished By FED-X

Date

Relinquished To ASSAGI LABS

Date

Relinquished By

Date

Relinquished To

Date

Relinquished By

Date

Relinquished By

Date

Laboratory: ASSAGI LABS

Received: CJ King

Date 7/18/91

\* MAIL TEST RESULTS TO: LARRY CAMPBELL

P.O. Box 1717

ROSWELL N.M. 88202-1717

505-625-8022

# TRANSWESTERN PIPELINE COMPANY

## CHAIN OF CUSTODY

District: ROSWELL

Date: 7-17-91

Sample Location  
Valve or Receiver No.

Vol. Collect.  
During Flush

Sampler

STATION 9 - GAS TANK

STATION 9 - PIT 1

SAMPLE ID NUMBER

SOLVENT  
USED

SAMPLE  
ICED

ANALYSES REQUESTED

GAS TANK 200000000

200000000 - 200000000

GAS TANK 100000000

PIT 1 2.8 - 3.0

PIT 1 3.2 - 4.4

PIT 1 12.0 - 12.2

PIT 1 12.8 - 13.0

PIT 1 24.8 - 25.0

PIT 1 3.6 - 3.8

PIT 1 41.6 - 41.8

PIT 1 43.8 - 44.0

YES

YES

YES

YES

YES

YES

YES

YES

YES

YES

TPH BTEX

TPH BTEX

2010

8010

8010

8010

8010

8010

8010 BTEX

8010 3020

Relinquished By EARL CHANLEY / TWP CO.

Relinquished To FLO - A

Date 7-17-91

Date 7-17-91

Relinquished By FLO - A

Relinquished To ASSOCI LAG

Date

Date

Relinquished By

Relinquished To

Date

Date

Relinquished By

Relinquished By

Date

Date

Laboratory: ASAP, 1000

Received: ASAP

Date 7/17/91

\* FINAL TEST RESULTS TO EARL CHANLEY

7/17/91

ASAP, 1000

000-000-000

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07/31/91 10:36:55

Work Order # 91-07-257

REPORT ENRON/TRANSWESTERN PIPELINE  
TO 6381 N. MAIN STREET  
P.O. BOX 1717  
ROSWELL, NM 88202-1717  
ATTEN LARRY CAMPBELLPREPARED Assaigai Analytical Labs  
BY 7300 Jefferson NE  
Albuquerque, NM 87109  
ATTEN SYED RIZVI  
PHONE (505)345-8964Syed Rizvi  
CERTIFIED BY  
CONTACT LAB MANAGERCLIENT ENR03 SAMPLES 12  
COMPANY ENRON/TRANSWESTERN PIPELINE  
FACILITY ROSWELL, NEW MEXICO  
ENR03QUESTIONS ABOUT THIS REPORT SHOULD BE ADDRESSED TO:  
LABORATORY OPERATIONS MANAGER/ASSAIGAI ANALYTICAL  
7300 JEFFERSON N.E., ALBUQUERQUE, N.M. 87109WORK ID STATION #9 7784  
TAKEN 7/22/91  
TRANS FEDERAL EXPRESS  
TYPE SOIL  
P.O. # \_\_\_\_\_  
INVOICE under separate cover**SAMPLE IDENTIFICATION**

01	PIT 2	SAMPLE 001
02	PIT 2	SAMPLE 002
03	PIT 2	26.0-26.2
04	PIT 2	29.1-29.3
05	PIT 2	39.8-39.9
06	PIT 2	44.1-44.3
07	PIT 2	57.5-57.8
08	PIT 2	69.9-70.1
09		
10		
11	PIT 3	BH-2 25.0-25.2
12	PIT 3	BH-1 30.7-30.9

**TEST CODES and NAMES used on this workorder**

<u>8010 S</u>	<u>PURGEABLE HALOCARBONS-SOIL</u>
<u>8020</u>	<u>AROMATIC VOLATILE ORGANICS</u>
<u>TRPH</u>	<u>TOTAL REC PET HYDROCARBONS</u>



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REPORT  
Results by Sample

Work Order # 91-07-257

SAMPLE ID PIT 2 SAMPLE 001 FRACTION 01A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/22/91 Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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**REPORT****Results by Sample**

Work Order # 91-07-257

Continued From Above

SAMPLE ID PIT 2 SAMPLE 001FRACTION 01A TEST CODE 8010 8 NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/22/91 Category \_\_\_\_\_

## Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 07/29/91

DATE RUN \_\_\_\_\_ 07/29/91

ANALYST D/R

UNITS \_\_\_\_\_ MG/KG

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## REPORT Results by Sample

Work Order # 91-07-257

SAMPLE ID PIT 2 SAMPLE 002

FRACTION 02A

TEST CODE 8010 S

NAME PURGEABLE HALOCARBONS-SOIL

Date & Time Collected 07/22/91

Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	0.37	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	0.65	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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Results by SampleWork Order # 91-07-257  
Continued From AboveSAMPLE ID PIT 2 SAMPLE 002FRACTION 02A TEST CODE 8010 8 NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/22/91 Category \_\_\_\_\_

## Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 07/29/91  
DATE RUN \_\_\_\_\_ 07/29/91  
ANALYST D/R  
UNITS \_\_\_\_\_ MG/KGMember: American Council of  
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REPORT  
Results by Sample

Work Order # 91-07-257

SAMPLE ID PIT 2 26.0-26.2

FRACTION 03A

TEST CODE 8010 S

NAME PURGEABLE HALOCARBONS-SOIL

Date & Time Collected 07/22/91

Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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REPORT  
Results by Sample

Work Order # 91-07-257  
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SAMPLE ID PIT 2 26.0-26.2 FRACTION 03A TEST CODE 8010\_S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/22/91 Category \_\_\_\_\_

Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 07/29/91  
DATE RUN \_\_\_\_\_ 07/29/91  
ANALYST D/R  
UNITS \_\_\_\_\_ MG/KG



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REPORT  
Results by Sample

Work Order # 91-07-257

SAMPLE ID PIT 2 29.1-29.3 FRACTION 04A TEST CODE 8010\_8 NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/22/91 Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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## REPORT

## Results by Sample

Work Order # 91-07-257

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SAMPLE ID PIT 2 29.1-29.3FRACTION 04ATEST CODE 8010 SNAME PURGEABLE HALOCARBONS-SOILDate & Time Collected 07/22/91

Category \_\_\_\_\_

## Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 07/29/91

DATE RUN \_\_\_\_\_ 07/29/91

ANALYST D/R

UNITS \_\_\_\_\_ MG/KG

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REPORT  
Results by Sample

Work Order # 91-07-257

SAMPLE ID PIT 2 39.8-39.9 FRACTION 05A TEST CODE 8010\_S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/22/91 Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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**REPORT**  
**Results by Sample**

**Work Order # 91-07-257**  
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SAMPLE ID PIT 2 39.8-39.9

FRACTION 05A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/22/91 Category \_\_\_\_\_

Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 07/29/91  
DATE RUN \_\_\_\_\_ 07/29/91  
ANALYST D/R  
UNITS \_\_\_\_\_ MG/KG



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Results by Sample

Work Order # 91-07-257

SAMPLE ID PIT 2 44.1-44.3FRACTION 06ATEST CODE 8010 SNAME PURGEABLE HALOCARBONS-SOILDate & Time Collected 07/22/91

Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1

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REPORT  
Results by Sample

Work Order # 91-07-257  
Continued From Above

SAMPLE ID PIT 2 44.1-44.3

FRACTION 06A TEST CODE 8010\_8 NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/22/91 Category \_\_\_\_\_

Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 07/29/91  
DATE RUN \_\_\_\_\_ 07/29/91  
ANALYST D/R  
UNITS \_\_\_\_\_ MG/KG



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Results by Sample

Work Order # 91-07-257

SAMPLE ID PIT 2 44.1-44.3FRACTION 06A TEST CODE 8020NAME AROMATIC VOLATILE ORGANICSDate & Time Collected 07/22/91

Category \_\_\_\_\_

PARAMETER	RESULT	DET LIMIT
BENZENE	<u>&lt;0.1</u>	<u>0.1</u>
CHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,4-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,3-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,2-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
ETHYL BENZENE	<u>&lt;0.1</u>	<u>0.1</u>
TOLUENE	<u>&lt;0.1</u>	<u>0.1</u>
XYLENES	<u>&lt;0.1</u>	<u>0.1</u>

## Notes and Definitions for this Report:

EXTRACTED 07/29/91DATE RUN 07/29/91ANALYST D/RUNITS MG/KG



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Results by Sample

Work Order # 91-07-257

SAMPLE ID PIT 2 57.5-57.8FRACTION 07ATEST CODE 8010 SNAME PURGEABLE HALOCARBONS-SOILDate & Time Collected 07/22/91

Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1

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## REPORT

## Results by Sample

Work Order # 91-07-257

Continued From Above

SAMPLE ID PIT 2 57.5-57.8FRACTION 07A TEST CODE 8010\_8 NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/22/91 Category \_\_\_\_\_

## Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 07/29/91

DATE RUN \_\_\_\_\_ 07/30/91

ANALYST D/R

UNITS \_\_\_\_\_ MG/KG

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REPORT  
Results by Sample

Work Order # 91-07-257

SAMPLE ID PIT 2 69.9-70.1

FRACTION 08A

TEST CODE 8010 S

NAME PURGEABLE HALOCARBONS-SOIL

Date & Time Collected 07/22/91

Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLORO BENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLORO BENZENE	<0.1	0.1
1,3-DICHLORO BENZENE	<0.1	0.1
1,4-DICHLORO BENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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REPORT  
Results by Sample

Work Order # 91-07-257  
Continued From Above

SAMPLE ID PIT 2 69.9-70.1

FRACTION 08A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/22/91 Category \_\_\_\_\_

Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 07/29/91  
DATE RUN \_\_\_\_\_ 07/30/91  
ANALYST D/R  
UNITS \_\_\_\_\_ MG/KG



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REPORT  
Results by Sample

Work Order # 91-07-257

SAMPLE ID PIT 2 69.9-70.1 FRACTION 08A TEST CODE 8020 NAME AROMATIC VOLATILE ORGANICS  
Date & Time Collected 07/22/91 Category \_\_\_\_\_

PARAMETER	RESULT	DET LIMIT
BENZENE	<u>&lt;0.1</u>	<u>0.1</u>
CHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,4-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,3-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,2-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
ETHYL BENZENE	<u>&lt;0.1</u>	<u>0.1</u>
TOLUENE	<u>&lt;0.1</u>	<u>0.1</u>
XYLENES	<u>&lt;0.1</u>	<u>0.1</u>

Notes and Definitions for this Report:

EXTRACTED 07/29/91  
DATE RUN 07/30/91  
ANALYST D/R  
UNITS MG/KG



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REPORT

Work Order # 91-07-257

## Results by Sample

SAMPLE ID PIT 3 BH-2 25.0-25.2FRACTION 11ATEST CODE 8010 SNAME PURGEABLE HALOCARBONS-SOILDate & Time Collected 07/22/91

Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLORO BENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLORO BENZENE	<0.1	0.1
1,3-DICHLORO BENZENE	<0.1	0.1
1,4-DICHLORO BENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1

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## REPORT

## Results by Sample

Work Order # 91-07-257

Continued From Above

SAMPLE ID PIT 3 BH-2 25.0-25.2FRACTION 11ATEST CODE 8010 SNAME PURGEABLE HALOCARBONS-SOILDate & Time Collected 07/22/91

Category \_\_\_\_\_

## Notes and Definitions for this Report:

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REPORT

Work Order # 91-07-257

## Results by Sample

SAMPLE ID PIT 3 BH-2 25.0-25.2FRACTION 11A TEST CODE 8020NAME AROMATIC VOLATILE ORGANICSDate & Time Collected 07/22/91

Category \_\_\_\_\_

PARAMETER	RESULT	DET LIMIT
BENZENE	<u>&lt;0.1</u>	<u>0.1</u>
CHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,4-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,3-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,2-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
ETHYL BENZENE	<u>&lt;0.1</u>	<u>0.1</u>
TOLUENE	<u>&lt;0.1</u>	<u>0.1</u>
XYLENES	<u>&lt;0.1</u>	<u>0.1</u>

## Notes and Definitions for this Report:

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REPORT  
Results by Sample

Work Order # 91-07-257

SAMPLE ID PIT 3 BH-1 30.7-30.9 FRACTION 12A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/22/91 Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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## REPORT

### Results by Sample

Work Order # 91-07-257

Continued From Above

SAMPLE ID PIT 3 BH-1 30.7-30.9

FRACTION 12A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/22/91 Category \_\_\_\_\_

### Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 07/29/91

DATE RUN \_\_\_\_\_ 07/30/91

ANALYST D/R

UNITS \_\_\_\_\_ MG/KG



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## REPORT Results by Sample

Work Order # 91-07-257

SAMPLE ID PIT 3 BH-1 30.7-30.9

FRACTION 12A TEST CODE 8020

NAME AROMATIC VOLATILE ORGANICS

Date & Time Collected 07/22/91

Category \_\_\_\_\_

PARAMETER	RESULT	DET LIMIT
BENZENE	<u>&lt;0.1</u>	<u>0.1</u>
CHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,4-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,3-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,2-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
ETHYL BENZENE	<u>&lt;0.1</u>	<u>0.1</u>
TOLUENE	<u>&lt;0.1</u>	<u>0.1</u>
XYLENES	<u>&lt;0.1</u>	<u>0.1</u>

### Notes and Definitions for this Report:

EXTRACTED 07/29/91  
DATE RUN 07/30/91  
ANALYST D/R  
UNITS MG/KG





**WORK ORDER**  
**7784**

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

TRANSWESTERN PIPELINE COMPANY

CHAIN OF CUSTODY

District: ROSWELL

Date: 7-22-91

Sample Location  
Valve or Receiver No.

Vol. Collect.  
During Flush

Sampler

STATION 9 -  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

METRIC CORP.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

<u>SAMPLE ID NUMBER</u>	<u>SOLVENT USED</u>	<u>SAMPLE ICED</u>	<u>ANALYSES REQUESTED</u>
<u>PIT 2 Sample 001</u>		<u>YES</u>	<u>8010</u>
<u>PIT 2 Sample 002</u>		<u>YES</u>	<u>8010</u>
<u>PIT 2 26.0 - 26.2</u>		<u>YES</u>	<u>8010</u>
<u>PIT 2 29.1 - 29.3</u>		<u>YES</u>	<u>8010</u>
<u>PIT 2 39.8 - 39.9</u>		<u>YES</u>	<u>8010</u>
<u>PIT 2 44.1 - 44.3</u>		<u>YES</u>	<u>8010 - 8020</u>
<u>PIT 2 57.5 - 57.8</u>		<u>YES</u>	<u>8010</u>
<u>PIT 2 69.9 - 70.1</u>		<u>YES</u>	<u>8010 - 8020</u>
<u>DIESEL TANK 1.3 - 4.5</u>		<u>YES</u>	<u>TPH</u>
<u>DIESEL TANK 7.8 - 7.9</u>		<u>YES</u>	<u>TPH</u>

PIT 3 BH-2 25.0-25.2

YES

8010-8020

PIT 3 BH-1 30.7-30.9

YES

8010-8020

Relinquished By EARL CHANLEY - TWPLC

Date 7-22-91

Relinquished To FED-X

Date 7-22-91

Relinquished By \_\_\_\_\_

Date \_\_\_\_\_

Relinquished To \_\_\_\_\_

Date \_\_\_\_\_

Relinquished By \_\_\_\_\_

Date \_\_\_\_\_

Relinquished To \_\_\_\_\_

Date \_\_\_\_\_

Relinquished By \_\_\_\_\_

Date \_\_\_\_\_

Relinquished By \_\_\_\_\_

Date \_\_\_\_\_

Laboratory: ASSAIGAM LABS

Received: agfing

Date 7/23/91

\* MAIL RESULTS TO : LARRY CAMPBELL  
P.O. Box 1717  
ROSWELL N.M. 89202-1717

(505-625-8022)

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REPORT

Work Order # 91-07-276

07/31/91 14:20:37

REPORT ENRON/TRANSWESTERN PIPELINE  
TO 6381 N. MAIN STREET  
P.O. BOX 1717  
ROSWELL, NM 88202-1717  
ATTEN LARRY CAMPBELL  
  
CLIENT ENR03 SAMPLES 6  
COMPANY ENRON/TRANSWESTERN PIPELINE  
FACILITY ROSWELL, NEW MEXICO  
ENR03

PREPARED Assaigai Analytical Labs  
BY 7300 Jefferson NE  
Albuquerque, NM 87109  
  
ATTEN SYED RIZVI  
PHONE (505)345-8964

Syed Rizvi  
CERTIFIED BY  
  
CONTACT LAB MANAGER

WORK ID STATION #9 7799  
TAKEN \_\_\_\_\_  
TRANS FED X  
TYPE SOIL  
P.O. # \_\_\_\_\_  
INVOICE under separate cover

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

**SAMPLE IDENTIFICATION**

01	SG 91	28.6 - 28.8
02	SG 86	13.5 - 13.7
03	SG 86	18.7 - 18.9
04	SG 86	24.9 - 25.1
05	SG 86	35.0 - 35.2
06	SG 86	40.5 - 40.7

**TEST CODES and NAMES used on this workorder**

8010	S	PURGEABLE HALOCARBONS-SOIL
8020		AROMATIC VOLATILE ORGANICS



Received: 07/24/91

## REPORT

Work Order # 91-07-276

## Results by Sample

SAMPLE ID SG 91 28.6 - 28.8FRACTION 01A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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## REPORT

## Results by Sample

Work Order # 91-07-276

Continued From Above

SAMPLE ID SG 91 28.6 - 28.8FRACTION 01A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category \_\_\_\_\_

## Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 07/30/91

DATE RUN \_\_\_\_\_ 07/30/91

ANALYST D/R

UNITS \_\_\_\_\_ MG/KG





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REPORT

Work Order # 91-07-276

Results by Sample

SAMPLE ID SG 91 28.6 - 28.8FRACTION 01A TEST CODE 8020 NAME AROMATIC VOLATILE ORGANICSDate & Time Collected not specified Category \_\_\_\_\_

PARAMETER	RESULT	DET LIMIT
BENZENE	<u>&lt;0.1</u>	<u>0.1</u>
CHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,4-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,3-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,2-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
ETHYL BENZENE	<u>&lt;0.1</u>	<u>0.1</u>
TOLUENE	<u>&lt;0.1</u>	<u>0.1</u>
XYLENES	<u>&lt;0.1</u>	<u>0.1</u>

Notes and Definitions for this Report:

EXTRACTED 07/30/91DATE RUN 07/30/91ANALYST D/RUNITS MG/KG

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## REPORT Results by Sample

Work Order # 91-07-276

SAMPLE ID SG 86 13.5 - 13.7 FRACTION 02A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	0.24	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	1.9	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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REPORT

Results by Sample

Work Order # 91-07-276

Continued From Above

SAMPLE ID SG 86 13.5 - 13.7FRACTION 02A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category \_\_\_\_\_

## Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 07/30/91

DATE RUN \_\_\_\_\_ 07/30/91

ANALYST D/R

UNITS \_\_\_\_\_ MG/KG



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**REPORT**  
**Results by Sample**

Work Order # 91-07-276  
Continued From Above

SAMPLE ID SG 86 18.7 - 18.9

FRACTION 03A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category \_\_\_\_\_

Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 07/30/91  
DATE RUN \_\_\_\_\_ 07/30/91  
ANALYST D/R  
UNITS \_\_\_\_\_ MG/KG



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REPORT  
Results by Sample

Work Order # 91-07-276

SAMPLE ID SG 86 24.9 - 25.1

FRACTION 04A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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REPORT  
Results by Sample

Work Order # 91-07-276  
Continued From Above

SAMPLE ID SG 86 24.9 - 25.1

FRACTION 04A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category \_\_\_\_\_

Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 07/30/91  
DATE RUN \_\_\_\_\_ 07/30/91  
ANALYST D/R  
UNITS \_\_\_\_\_ MG/KG



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**REPORT**  
**Results by Sample**

Work Order # 91-07-276

SAMPLE ID SG 86 35.0 - 35.2

FRACTION 05A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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**REPORT**  
**Results by Sample**

Work Order # 91-07-276  
Continued From Above

SAMPLE ID SG 86 35.0 - 35.2 FRACTION 05A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category \_\_\_\_\_

Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 07/30/91  
DATE RUN \_\_\_\_\_ 07/30/91  
ANALYST D/R  
UNITS \_\_\_\_\_ MG/KG





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REPORT  
Results by Sample

Work Order # 91-07-276

SAMPLE ID SG 86 40.5 - 40.7 FRACTION 06A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLORO BENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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REPORT

Results by Sample

Work Order # 91-07-276

Continued From Above

SAMPLE ID SG 86 40.5 - 40.7

FRACTION 06A

TEST CODE 8010 S

NAME PURGEABLE HALOCARBONS-SOIL

Date & Time Collected not specified

Category \_\_\_\_\_

Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 07/30/91

DATE RUN \_\_\_\_\_ 07/30/91

ANALYST D/R

UNITS \_\_\_\_\_ MG/KG



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REPORT  
Results by Sample

Work Order # 91-07-276

SAMPLE ID SG 86 40.5 - 40.7

FRACTION 06A TEST CODE 8020 NAME AROMATIC VOLATILE ORGANICS  
Date & Time Collected not specified Category \_\_\_\_\_

PARAMETER	RESULT	DET LIMIT
BENZENE	<u>&lt;0.1</u>	<u>0.1</u>
CHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,4-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,3-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,2-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
ETHYL BENZENE	<u>&lt;0.1</u>	<u>0.1</u>
TOLUENE	<u>&lt;0.1</u>	<u>0.1</u>
XYLENES	<u>&lt;0.1</u>	<u>0.1</u>

Notes and Definitions for this Report:

EXTRACTED 07/30/91  
DATE RUN 07/30/91  
ANALYST D/R  
UNITS MG/KG



Member: American Council of  
Independent Laboratories, Inc.

# TRANSWESTERN PIPELINE COMPANY

## CHAIN OF CUSTODY

District: ROSWELL

Date: 7-23-91

Sample Location  
Valve or Receiver No.

Vol. Collect.  
During Flush

Sampler

STATION 9

METRIC CORP.

<u>SAMPLE ID NUMBER</u>	<u>SOLVENT USED</u>	<u>SAMPLE ICED</u>	<u>ANALYSES REQUESTED</u>
<u>SG 91 28.6 - 28.8</u>		<u>YES</u>	<u>8010 - 8020</u>
<u>SG 86 13.5 - 13.7</u>		<u>YES</u>	<u>8010</u>
<u>SG 86 18.7 - 18.9</u>		<u>YES</u>	<u>8010</u>
<u>SG 86 24.9 - 25.1</u>		<u>YES</u>	<u>8010</u>
<u>SG 86 35.0 - 35.2</u>		<u>YES</u>	<u>8010</u>
<u>SG 86 40.5 - 40.7</u>		<u>YES</u>	<u>8010 - 8020</u>

Relinquished By EARL CHANLEY / TWPLC

Date 7-23-91

Relinquished To FED - A

Date 7-23-91

Relinquished By \_\_\_\_\_

Date \_\_\_\_\_

Relinquished To \_\_\_\_\_

Date \_\_\_\_\_

Relinquished By \_\_\_\_\_

Date \_\_\_\_\_

Relinquished To \_\_\_\_\_

Date \_\_\_\_\_

Relinquished By \_\_\_\_\_

Date \_\_\_\_\_

Relinquished By \_\_\_\_\_

Date \_\_\_\_\_

Laboratory: Assassan Labs

Received: AK King

Date 7/24/91

\* MAIL RESULTS TO: LARRY CAMPBELL

(505-625-8022)

P.O. Box 1717

ROSWELL N.M. 89202-1717



# WORK ORDER

## 7799

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

Received: 07/30/91

REPORT

Work Order # 91-07-330

08/09/91 10:27:50

REPORT ENRON/TRANSWESTERN PIPELINE  
TO 6381 N. MAIN STREET  
P.O. BOX 1717  
ROSWELL, NM 88202-1717  
ATTEN LARRY CAMPBELL

PREPARED Assaigai Analytical Labs  
BY 7300 Jefferson NE  
Albuquerque, NM 87109

Syed Rizvi  
CERTIFIED BY

ATTEN SYED RIZVI  
PHONE (505)345-8964

CONTACT LAB MANAGER

CLIENT ENR03 SAMPLES 22  
COMPANY ENRON/TRANSWESTERN PIPELINE  
FACILITY ROSWELL, NEW MEXICO  
ENR03

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

WORK ID STATION 9-O.S. YARD 7848  
TAKEN 7/29/91  
TRANS FEDERAL EXPRESS  
TYPE SOIL  
P.O. # \_\_\_\_\_  
INVOICE under separate cover

## SAMPLE IDENTIFICATION

## TEST CODES and NAMES used on this workorder

01 OSBH3  
02 SG349 0-1.8  
03 SG349 2.9-4.6  
04 SG349 9.0-10.0  
05 SG349 14.0-14.8  
06 SG349 20.3-21.3  
07 SG349 25.3-26.3  
08 SG349 29.7-30.4  
09 SG360 0.0-2.5  
10 SG360 4.0-5.0  
11 SG360 9.0-9.9  
12 SG360 14.0-14.7  
13 SG360 19.0-20.0  
14 SG360 24.0-25.0  
15 SG360 29.0-29.4

8010 S PURGEABLE HALOCARBONS-SOIL  
8020 AROMATIC VOLATILE ORGANICS



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REPORT  
08/09/91 10:27:50

Work Order # 91-07-330

**SAMPLE IDENTIFICATION**

<u>16</u>	<u>SG361 0-2.5</u>
<u>17</u>	<u>SG361 4.0-5.0</u>
<u>18</u>	<u>SG361 9.0-10.0</u>
<u>19</u>	<u>SG361 16.0-16.4</u>
<u>20</u>	<u>SG361 19.5-19.8</u>
<u>21</u>	<u>SG361 24.0-25.0</u>
<u>22</u>	<u>SG361 38.9-39.3</u>



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## REPORT Results by Sample

Work Order # 91-07-330

SAMPLE ID OSBH3 FRACTION 01A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/29/91 Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1





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## REPORT

### Results by Sample

Work Order # 91-07-330

Continued From Above

SAMPLE ID OSBH3

FRACTION 01A

TEST CODE 8010\_S

NAME PURGEABLE HALOCARBONS-SOIL

Date & Time Collected 07/29/91

Category \_\_\_\_\_

### Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 08/05/91

DATE RUN \_\_\_\_\_ 08/05/91

ANALYST D/R

UNITS \_\_\_\_\_ MG/KG



Received: 07/30/91

## REPORT

Work Order # 91-07-330

## Results by Sample

SAMPLE ID OSBH3FRACTION 01ATEST CODE 8020NAME AROMATIC VOLATILE ORGANICSDate & Time Collected 07/29/91

Category \_\_\_\_\_

## PARAMETER

## RESULT

## DET LIMIT

BENZENE

&lt;0.1

0.1

CHLOROBENZENE

&lt;0.1

0.1

1,4-DICHLOROBENZENE

&lt;0.1

0.1

1,3-DICHLOROBENZENE

&lt;0.1

0.1

1,2-DICHLOROBENZENE

&lt;0.1

0.1

ETHYL BENZENE

&lt;0.1

0.1

TOLUENE

&lt;0.1

0.1

XYLENES

&lt;0.1

0.1

## Notes and Definitions for this Report:

EXTRACTED 08/05/91DATE RUN 08/05/91ANALYST D/RUNITS MG/KG

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## REPORT Results by Sample

Work Order # 91-07-330

SAMPLE ID SG349 0-1.8 FRACTION 02A TEST CODE 8010 8 NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/29/91 Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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## REPORT

## Results by Sample

Work Order # 91-07-330

Continued From Above

SAMPLE ID SG349 0-1.8FRACTION 02ATEST CODE 8010 SNAME PURGEABLE HALOCARBONS-SOILDate & Time Collected 07/29/91

Category \_\_\_\_\_

## Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 08/05/91

DATE RUN \_\_\_\_\_ 08/05/91

ANALYST D/R

UNITS \_\_\_\_\_ MG/KG



Received: 07/30/91

## REPORT

Work Order # 91-07-330

### Results by Sample

SAMPLE ID SG349 2.9-4.6

FRACTION 03A

TEST CODE 8010\_8

NAME PURGEABLE HALOCARBONS-SOIL

Date & Time Collected 07/29/91

Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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## REPORT

### Results by Sample

Work Order # 91-07-330

Continued From Above

SAMPLE ID SG349 2.9-4.6

FRACTION 03A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL

Date & Time Collected 07/29/91 Category \_\_\_\_\_

### Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 08/05/91

DATE RUN \_\_\_\_\_ 08/05/91

ANALYST D/R

UNITS \_\_\_\_\_ MG/KG



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## REPORT Results by Sample

Work Order # 91-07-330

SAMPLE ID SG349 9.0-10.0 FRACTION 04A TEST CODE 8010 8 NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/29/91 Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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## REPORT

Results by Sample

Work Order # 91-07-330

Continued From Above

SAMPLE ID SG349 9.0-10.0

FRACTION 04A

TEST CODE 8010\_8

NAME PURGEABLE HALOCARBONS-SOIL

Date & Time Collected 07/29/91

Category \_\_\_\_\_

### Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 08/05/91

DATE RUN \_\_\_\_\_ 08/05/91

ANALYST D/R

UNITS \_\_\_\_\_ MG/KG





Results by Sample

SAMPLE ID SG349 14.0-14.8

FRACTION 05A

TEST CODE 8010 S

NAME PURGEABLE HALOCARBONS-SOIL

Date & Time Collected 07/29/91

Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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## REPORT

Results by Sample

Work Order # 91-07-330

Continued From Above

SAMPLE ID SG349 14.0-14.8

FRACTION 05A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL

Date & Time Collected 07/29/91 Category \_\_\_\_\_

### Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 08/05/91

DATE RUN \_\_\_\_\_ 08/05/91

ANALYST D/R

UNITS \_\_\_\_\_ MG/KG



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## REPORT Results by Sample

Work Order # 91-07-330

SAMPLE ID SG349 20.3-21.3 FRACTION 06A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/29/91 Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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## REPORT

### Results by Sample

Work Order # 91-07-330

Continued From Above

SAMPLE ID SG349 20.3-21.3

FRACTION 06A

TEST CODE 8010\_8

NAME PURGEABLE HALOCARBONS-SOIL

Date & Time Collected 07/29/91

Category \_\_\_\_\_

### Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 08/05/91

DATE RUN \_\_\_\_\_ 08/05/91

ANALYST D/R

UNITS \_\_\_\_\_ MG/KG



Results by Sample

SAMPLE ID SG349 25.3-26.3

FRACTION 07A

TEST CODE 8010 8

NAME PURGEABLE HALOCARBONS-SOIL

Date & Time Collected 07/29/91

Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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## REPORT

### Results by Sample

Work Order # 91-07-330

Continued From Above

SAMPLE ID SG349 25.3-26.3

FRACTION 07A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL

Date & Time Collected 07/29/91 Category \_\_\_\_\_

### Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 08/05/91

DATE RUN \_\_\_\_\_ 08/05/91

ANALYST D/R

UNITS \_\_\_\_\_ MG/KG



Received: 07/30/91

## REPORT

Work Order # 91-07-330

## Results by Sample

SAMPLE ID SG349 29.7-30.4FRACTION 08ATEST CODE 8010 SNAME PURGEABLE HALOCARBONS-SOILDate & Time Collected 07/29/91

Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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## REPORT

### Results by Sample

Work Order # 91-07-330

Continued From Above

SAMPLE ID SG349 29.7-30.4

FRACTION 08A TEST CODE 8010\_S NAME PURGEABLE HALOCARBONS-SOIL

Date & Time Collected 07/29/91 Category \_\_\_\_\_

### Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 08/05/91

DATE RUN \_\_\_\_\_ 08/05/91

ANALYST D/R

UNITS \_\_\_\_\_ MG/KG





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REPORT  
Results by Sample

Work Order # 91-07-330

SAMPLE ID SG349 29.7-30.4 FRACTION 08A TEST CODE 8020 NAME AROMATIC VOLATILE ORGANICS  
Date & Time Collected 07/29/91 Category \_\_\_\_\_

PARAMETER	RESULT	DET LIMIT
BENZENE	<u>&lt;0.1</u>	<u>0.1</u>
CHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,4-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,3-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,2-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
ETHYL BENZENE	<u>&lt;0.1</u>	<u>0.1</u>
TOLUENE	<u>&lt;0.1</u>	<u>0.1</u>
XYLENES	<u>&lt;0.1</u>	<u>0.1</u>

Notes and Definitions for this Report:

EXTRACTED 08/05/91  
DATE RUN 08/05/91  
ANALYST D/R  
UNITS MG/KG

Results by Sample

SAMPLE ID SG360 0.0-2.5

FRACTION 09A

TEST CODE 8010 S

NAME PURGEABLE HALOCARBONS-SOIL

Date & Time Collected 07/29/91

Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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## REPORT

### Results by Sample

Work Order # 91-07-330

Continued From Above

SAMPLE ID SG360 0.0-2.5

FRACTION 09A

TEST CODE 8010 S

NAME PURGEABLE HALOCARBONS-SOIL

Date & Time Collected 07/29/91

Category \_\_\_\_\_

### Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 08/05/91

DATE RUN \_\_\_\_\_ 08/05/91

ANALYST D/R

UNITS \_\_\_\_\_ MG/KG



Results by Sample

SAMPLE ID SG360 4.0-5.0

FRACTION 10A

TEST CODE 8010 8

NAME PURGEABLE HALOCARBONS-SOIL

Date & Time Collected 07/29/91

Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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## REPORT

### Results by Sample

Work Order # 91-07-330

Continued From Above

SAMPLE ID SG360 4.0-5.0

FRACTION 10A

TEST CODE 8010 S

NAME PURGEABLE HALOCARBONS-SOIL

Date & Time Collected 07/29/91

Category \_\_\_\_\_

### Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 08/05/91

DATE RUN \_\_\_\_\_ 08/05/91

ANALYST D/R

UNITS \_\_\_\_\_ MG/KG



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## REPORT Results by Sample

Work Order # 91-07-330

SAMPLE ID SG360 9.0-9.9 FRACTION 11A TEST CODE 8010\_8 NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/29/91 Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



## REPORT

### Results by Sample

Work Order # 91-07-330

Continued From Above

SAMPLE ID SG360 9.0-9.9

FRACTION 11A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
 Date & Time Collected 07/29/91 Category \_\_\_\_\_

### Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 08/05/91  
 DATE RUN \_\_\_\_\_ 08/05/91  
 ANALYST D/R  
 UNITS \_\_\_\_\_ MG/KG



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## REPORT

Work Order # 91-07-330

## Results by Sample

SAMPLE ID SG360 14.0-14.7FRACTION 12ATEST CODE 8010 SNAME PURGEABLE HALOCARBONS-SOILDate & Time Collected 07/29/91

Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1





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## REPORT

## Results by Sample

Work Order # 91-07-330

Continued From Above

SAMPLE ID SG360 14.0-14.7FRACTION 12A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOILDate & Time Collected 07/29/91 Category \_\_\_\_\_

## Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 08/06/91

DATE RUN \_\_\_\_\_ 08/06/91

ANALYST D/R

UNITS \_\_\_\_\_ MG/KG



## Results by Sample

SAMPLE ID SG360 19.0-20.0FRACTION 13ATEST CODE 8010 SNAME PURGEABLE HALOCARBONS-SOILDate & Time Collected 07/29/91

Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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REPORT

Results by Sample

Work Order # 91-07-030

Continued From Above

SAMPLE ID SG360 19.0-20.0FRACTION 13ATEST CODE 8010 SNAME PURGEABLE HALOCARBONS-SOILDate & Time Collected 07/29/91

Category \_\_\_\_\_

## Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 08/06/91

DATE RUN \_\_\_\_\_ 08/06/91

ANALYST D/R

UNITS \_\_\_\_\_ MG/KG



## Results by Sample

SAMPLE ID SG360 24.0-25.0FRACTION 14ATEST CODE 8010\_8NAME PURGEABLE HALOCARBONS-SOILDate & Time Collected 07/29/91

Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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REPORT

Results by Sample

Work Order # 91-07-330

Continued From Above

SAMPLE ID SG360 24.0-25.0FRACTION 14A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/29/91 Category \_\_\_\_\_

## Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 08/06/91

DATE RUN \_\_\_\_\_ 08/06/91

ANALYST D/R

UNITS \_\_\_\_\_ MG/KG



## Results by Sample

SAMPLE ID SG360 29.0-29.4FRACTION 15ATEST CODE 8010 SNAME PURGEABLE HALOCARBONS-SOILDate & Time Collected 07/29/91

Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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REPORT

Results by Sample

Work Order # 91-07-330

Continued From Above

SAMPLE ID SG360 29.0-29.4

FRACTION 15A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL

Date & Time Collected 07/29/91

Category \_\_\_\_\_

Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 08/06/91

DATE RUN \_\_\_\_\_ 08/06/91

ANALYST D/R

UNITS \_\_\_\_\_ MG/KG



Member: American Council of  
Independent Laboratories, Inc.

Results by Sample

SAMPLE ID SG361 0-2.5

FRACTION 16A

TEST CODE 8010 S

NAME PURGEABLE HALOCARBONS-SOIL

Date & Time Collected 07/29/91

Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1





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REPORT

Results by Sample

Work Order # 91-07-330

Continued From Above

SAMPLE ID SG361 0-2.5

FRACTION 16A TEST CODE 8010 8 NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/29/91 Category \_\_\_\_\_

Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 08/06/91  
DATE RUN \_\_\_\_\_ 08/06/91  
ANALYST D/R  
UNITS \_\_\_\_\_ MG/KG



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## REPORT Results by Sample

Work Order # 91-07-330

SAMPLE ID SG361 4.0-5.0 FRACTION 17A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/29/91 Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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## REPORT

### Results by Sample

Work Order # 91-07-330

Continued From Above

SAMPLE ID SG361 4.0-5.0

FRACTION 17A

TEST CODE 8010 S

NAME PURGEABLE HALOCARBONS-SOIL

Date & Time Collected 07/29/91

Category \_\_\_\_\_

### Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 08/06/91

DATE RUN \_\_\_\_\_ 08/06/91

ANALYST D/R

UNITS \_\_\_\_\_ MG/KG



## Results by Sample

SAMPLE ID SG361 9.0-10.0FRACTION 18A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/29/91 Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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**REPORT****Results by Sample**

Work Order # 91-07-330

Continued From Above

SAMPLE ID SG361 9.0-10.0FRACTION 18A TEST CODE 8010 8 NAME PURGEABLE HALOCARBONS-SOILDate & Time Collected 07/29/91 Category \_\_\_\_\_**Notes and Definitions for this Report:**EXTRACTED \_\_\_\_\_ 08/06/91DATE RUN \_\_\_\_\_ 08/06/91ANALYST D/RUNITS \_\_\_\_\_ MG/KG

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REPORT  
Results by Sample

Work Order # 91-07-330

SAMPLE ID SG361 16.0-16.4FRACTION 19ATEST CODE 8010\_8NAME PURGEABLE HALOCARBONS-SOILDate & Time Collected 07/29/91

Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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REPORT

Results by Sample

Work Order # 91-07-330

Continued From Above

SAMPLE ID SG361 16.0-16.4

FRACTION 19A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/29/91 Category \_\_\_\_\_

Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 08/06/91

DATE RUN \_\_\_\_\_ 08/06/91

ANALYST D/R

UNITS \_\_\_\_\_ MG/KG



## Results by Sample

SAMPLE ID SG361 19.5-19.8FRACTION 20ATEST CODE 8010 SNAME PURGEABLE HALOCARBONS-SOILDate & Time Collected 07/29/91

Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1





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## REPORT

Results by Sample

Work Order # 91-07-330

Continued From Above

SAMPLE ID SG361 19.5-19.8

FRACTION 20A TEST CODE 8010\_S NAME PURGEABLE HALOCARBONS-SOIL

Date & Time Collected 07/29/91

Category \_\_\_\_\_

### Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 08/06/91

DATE RUN \_\_\_\_\_ 08/06/91

ANALYST D/R

UNITS \_\_\_\_\_ MG/KG



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## REPORT Results by Sample

Work Order # 91-07-330

SAMPLE ID SG361 24.0-25.0 FRACTION 21A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/29/91 Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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## REPORT

## Results by Sample

Work Order # 91-07-330

Continued From Above

SAMPLE ID SG361 24.0-25.0FRACTION 21A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOILDate & Time Collected 07/29/91

Category \_\_\_\_\_

## Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 08/06/91

DATE RUN \_\_\_\_\_ 08/06/91

ANALYST D/R

UNITS \_\_\_\_\_ MG/KG



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## REPORT Results by Sample

Work Order # 91-07-330

SAMPLE ID SG361 38.9-39.3 FRACTION 22A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/29/91 Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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**REPORT****Results by Sample**

Work Order # 91-07-330

Continued From Above

SAMPLE ID SG361 38.9-39.3FRACTION 22A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected 07/29/91 Category \_\_\_\_\_**Notes and Definitions for this Report:**EXTRACTED \_\_\_\_\_ 08/06/91DATE RUN \_\_\_\_\_ 08/06/91ANALYST D/RUNITS \_\_\_\_\_ MG/KG

TRANSWESTERN PIPELINE COMPANY

CHAIN OF CUSTODY

District: ROSWELL

Date: 7-29-91

Sample Location  
Valve or Receiver No.

Vol. Collect.  
During Flush

Sampler

STATION 9 - O.S. YARD

METRIC CARP

<u>SAMPLE ID NUMBER</u>	<u>SOLVENT USED</u>	<u>SAMPLE ICED</u>	<u>ANALYSES REQUESTED</u>
OSRH3		YES	P010, P020
SG349 0-1.8		YES	P010, <del>P020</del>
SG349 2.9-4.6		YES	P010
SG349 9.0-12.0		YES	P010
SG349 14.0-14.8		YES	P010
SG349 20.3-21.3		YES	P010
SG349 25.3-26.3		YES	P010
SG349 29.7-30.4		YES	P010, P020
SG360 0.0-2.5		YES	P010
SG360 4.0-5.0		YES	P010
SG360 9.0-9.9		YES	P010

Relinquished By EARL CHANLEY - TWPL CO.

Date 7-29-91

Relinquished To FSD-X

Date 7-29-91

Relinquished By \_\_\_\_\_

Date \_\_\_\_\_

Relinquished To \_\_\_\_\_

Date \_\_\_\_\_

Relinquished By \_\_\_\_\_

Date \_\_\_\_\_

Relinquished To \_\_\_\_\_

Date \_\_\_\_\_

Relinquished By \_\_\_\_\_

Date \_\_\_\_\_

Relinquished By \_\_\_\_\_

Date \_\_\_\_\_

Laboratory: \_\_\_\_\_

ASSAISI LABS

Received: \_\_\_\_\_

BY BURCK

Date 7/30/91

MAIL RESULTS TO: LARRY CAMPBELL

P.O. Box 1717

ROSWELL N.MEX. 88202-1717

(505-625-8022)

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REPORT  
08/05/91 09:26:18

Work Order # 91-07-299

REPORT ENRON/TRANSWESTERN PIPELINE  
TO 6381 N. MAIN STREET  
P.O. BOX 1717  
ROSWELL, NM 88202-1717  
ATTEN LARRY CAMPBELL

PREPARED Assaigai Analytical Labs  
BY 7300 Jefferson NE  
Albuquerque, NM 87109  
ATTEN SYED RIZVI  
PHONE (505)345-8964

Syed Rizvi  
CERTIFIED BY  
CONTACT LAB MANAGER

CLIENT ENR03 SAMPLES 8  
COMPANY ENRON/TRANSWESTERN PIPELINE  
FACILITY ROSWELL, NEW MEXICO  
ENR03

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

WORK ID STATION 9 7821  
TAKEN  
TRANS FED X  
TYPE SOIL  
P.O. #  
INVOICE under separate cover

**SAMPLE IDENTIFICATION**

01 OSBH1 18.9 ~ 19.1  
02 OSBH1 34.3 - 34.5  
03 OSBH2 9.9 - 10.1  
04 OSBH2 22.5 ~ 22.6  
05 OSBH2 31.1 - 31.3  
06 OSBH2 41.8 ~ 42.0  
07 OSBH2 55.2 ~ 55.4  
08 OSBH2 69.0 ~ 69.2

**TEST CODES and NAMES used on this workorder**

8010 S PURGEABLE HALOCARBONS-SOIL



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REPORT

Work Order # 91-07-299

## Results by Sample

SAMPLE ID OSBH1 18.9 - 19.1FRACTION 01ATEST CODE 8010 SNAME PURGEABLE HALOCARBONS-SOILDate & Time Collected not specified

Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1





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**REPORT**  
**Results by Sample**

Work Order # 91-07-299  
Continued From Above

SAMPLE ID OSBH1 18.9 - 19.1

FRACTION 01A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category \_\_\_\_\_

Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 08/01/91  
DATE RUN \_\_\_\_\_ 08/01/91  
ANALYST D/R  
UNITS \_\_\_\_\_ MG/KG



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## Results by Sample

**Work Order # 91-07-299**

SAMPLE ID OSBH1 34.3 - 34.5

**FRACTION 02A**

**TEST CODE 8010 S**

NAME PURGEABLE HALOCARBONS-SOIL

**Date & Time Collected not specified**

Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<u>&lt;0.1</u>	<u>0.1</u>
BROMOFORM	<u>&lt;0.1</u>	<u>0.1</u>
BROMOMETHANE	<u>&lt;0.1</u>	<u>0.1</u>
CARBON TETRACHLORIDE	<u>&lt;0.1</u>	<u>0.1</u>
CHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
CHLOROETHANE	<u>&lt;0.1</u>	<u>0.1</u>
CHLOROFORM	<u>&lt;0.1</u>	<u>0.1</u>
2-CHLOROETHYL VINYL ETHER	<u>&lt;0.1</u>	<u>0.1</u>
CHLOROMETHANE	<u>&lt;0.1</u>	<u>0.1</u>
DIBROMOCHLOROMETHANE	<u>&lt;0.1</u>	<u>0.1</u>
1,2-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,3-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
1,4-DICHLOROBENZENE	<u>&lt;0.1</u>	<u>0.1</u>
DICHLORODIFLUOROMETHANE	<u>&lt;0.1</u>	<u>0.1</u>
1,1-DICHLOROETHANE	<u>&lt;0.1</u>	<u>0.1</u>
1,2-DICHLOROETHANE	<u>&lt;0.1</u>	<u>0.1</u>
1,1-DICHLOROETHENE	<u>&lt;0.1</u>	<u>0.1</u>
trans-1,2-DICHLOROETHENE	<u>&lt;0.1</u>	<u>0.1</u>
1,2-DICHLOROPROPANE	<u>&lt;0.1</u>	<u>0.1</u>
cis-1,3-DICHLOROPROPENE	<u>&lt;0.1</u>	<u>0.1</u>
1,1,2,2-TETRACHLOROETHANE	<u>&lt;0.1</u>	<u>0.1</u>
trans-1,3-DICHLOROPROPENE	<u>&lt;0.1</u>	<u>0.1</u>
METHYLENE CHLORIDE	<u>&lt;0.1</u>	<u>0.1</u>
1,1,1-TRICHLOROETHANE	<u>&lt;0.1</u>	<u>0.1</u>
1,1,2-TRICHLOROETHANE	<u>&lt;0.1</u>	<u>0.1</u>
TETRACHLOROETHENE	<u>&lt;0.1</u>	<u>0.1</u>
TRICHLOROFLUOROMETHANE	<u>&lt;0.1</u>	<u>0.1</u>
TRICHLOROETHENE	<u>&lt;0.1</u>	<u>0.1</u>
VINYL CHLORIDE	<u>&lt;0.1</u>	<u>0.1</u>



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REPORT  
Results by Sample

Work Order # 91-07-299  
Continued From Above

SAMPLE ID OSBH1 34.3 - 34.5

FRACTION 02A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category \_\_\_\_\_

Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 08/01/91  
DATE RUN \_\_\_\_\_ 08/01/91  
ANALYST D/R  
UNITS \_\_\_\_\_ MG/KG



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REPORT  
Results by Sample

Work Order # 91-07-299

SAMPLE ID OSBH2 9.9 - 10.1

FRACTION 03A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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**REPORT**  
**Results by Sample**

Work Order # 91-07-299  
Continued From Above

SAMPLE ID OSBH2 9.9 - 10.1 FRACTION 03A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category \_\_\_\_\_

Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 08/01/91  
DATE RUN \_\_\_\_\_ 08/01/91  
ANALYST D/R  
UNITS \_\_\_\_\_ MG/KG



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SAMPLE ID OSBH2 22.5 - 22.6

FRACTION 04A

TEST CODE 8010 S

NAME PURGEABLE HALOCARBONS-SOIL

Date & Time Collected not specified

Category                     

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLORO BENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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REPORT  
Results by Sample

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SAMPLE ID OSBH2 22.5 - 22.6

FRACTION 04A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category \_\_\_\_\_

Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 08/01/91  
DATE RUN \_\_\_\_\_ 08/01/91  
ANALYST D/R  
UNITS \_\_\_\_\_ MG/KG



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REPORT  
Results by Sample

Work Order # 91-07-299

SAMPLE ID OSBH2 31.1 - 31.3

FRACTION 05A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1





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**REPORT**  
**Results by Sample**

Work Order # 91-07-299  
Continued From Above

SAMPLE ID OSBH2 31.1 - 31.3

FRACTION 05A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category \_\_\_\_\_

Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 08/01/91  
DATE RUN \_\_\_\_\_ 08/01/91  
ANALYST D/R  
UNITS \_\_\_\_\_ MG/KG



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REPORT  
Results by Sample

Work Order # 91-07-299

SAMPLE ID OSBH2 41.8 - 42.0 FRACTION 06A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1

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# REPORT

## Results by Sample

Work Order # 91-07-299

SAMPLE ID OSBH2 55.2 - 55.4

FRACTION 07A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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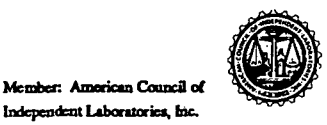
REPORT  
Results by Sample

Work Order # 91-07-299  
Continued From Above

SAMPLE ID OSBH2 55.2 - 55.4 FRACTION 07A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category \_\_\_\_\_

Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 08/01/91  
DATE RUN \_\_\_\_\_ 08/01/91  
ANALYST D/R  
UNITS \_\_\_\_\_ MG/KG



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REPORT  
Results by Sample

Work Order # 91-07-299

SAMPLE ID OSBH2 69.0 - 69.2

FRACTION 08A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category \_\_\_\_\_

PARAMETER	RESULT	LIMIT
BROMODICHLOROMETHANE	<0.1	0.1
BROMOFORM	<0.1	0.1
BROMOMETHANE	<0.1	0.1
CARBON TETRACHLORIDE	<0.1	0.1
CHLOROBENZENE	<0.1	0.1
CHLOROETHANE	<0.1	0.1
CHLOROFORM	<0.1	0.1
2-CHLOROETHYL VINYL ETHER	<0.1	0.1
CHLOROMETHANE	<0.1	0.1
DIBROMOCHLOROMETHANE	<0.1	0.1
1,2-DICHLOROBENZENE	<0.1	0.1
1,3-DICHLOROBENZENE	<0.1	0.1
1,4-DICHLOROBENZENE	<0.1	0.1
DICHLORODIFLUOROMETHANE	<0.1	0.1
1,1-DICHLOROETHANE	<0.1	0.1
1,2-DICHLOROETHANE	<0.1	0.1
1,1-DICHLOROETHENE	<0.1	0.1
trans-1,2-DICHLOROETHENE	<0.1	0.1
1,2-DICHLOROPROPANE	<0.1	0.1
cis-1,3-DICHLOROPROPENE	<0.1	0.1
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1
trans-1,3-DICHLOROPROPENE	<0.1	0.1
METHYLENE CHLORIDE	<0.1	0.1
1,1,1-TRICHLOROETHANE	<0.1	0.1
1,1,2-TRICHLOROETHANE	<0.1	0.1
TETRACHLOROETHENE	<0.1	0.1
TRICHLOROFLUOROMETHANE	<0.1	0.1
TRICHLOROETHENE	<0.1	0.1
VINYL CHLORIDE	<0.1	0.1



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REPORT  
Results by Sample

Work Order # 91-07-299  
Continued From Above

SAMPLE ID OSBH2 69.0 - 69.2

FRACTION 08A TEST CODE 8010 S NAME PURGEABLE HALOCARBONS-SOIL  
Date & Time Collected not specified Category \_\_\_\_\_

Notes and Definitions for this Report:

EXTRACTED \_\_\_\_\_ 08/01/91  
DATE RUN \_\_\_\_\_ 08/01/91  
ANALYST D/R  
UNITS \_\_\_\_\_ MG/KG



Member: American Council of  
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TRANSWESTERN PIPELINE COMPANY

CHAIN OF CUSTODY

District: ROSWELL

Date: 7-25-91

Sample Location  
Valve or Receiver No.

Vol. Collect.  
During Flush

Sampler

STATION 9

METRIC CORP.

<u>SAMPLE ID NUMBER</u>	<u>SOLVENT USED</u>	<u>SAMPLE ICED</u>	<u>ANALYSES REQUESTED</u>
OSBH1 18.9-19.1		YES	8010
OSBH1 39.3-39.5		YES	8010
OSBH2 9.9-10.1		YES	8010
OSBH2 22.5-22.6		YES	8010
ASBH2 31.1-31.3		YES	8010
ASBH2 41.8-42.0		YES	8010
OSBH2 55.2-55.4		YES	8010
OSBH2 69.0-69.2		YES	8010

Relinquished By EARL CHANLEY / TWPLCO.

Date 7-25-91

Relinquished To FEO-X

Date 7-25-91

Relinquished By \_\_\_\_\_

Date \_\_\_\_\_

Relinquished To \_\_\_\_\_

Date \_\_\_\_\_

Relinquished By \_\_\_\_\_

Date \_\_\_\_\_

Relinquished To \_\_\_\_\_

Date \_\_\_\_\_

Relinquished By \_\_\_\_\_

Date \_\_\_\_\_

Relinquished By \_\_\_\_\_

Date \_\_\_\_\_

Laboratory: \_\_\_\_\_

Received: \_\_\_\_\_

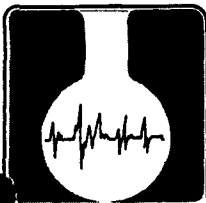
Date \_\_\_\_\_

MAIL RESULTS TO: LARRY CAMPBELL

(505-625-1622)

P.O. Box 1717

ROSWELL NM 88212-1717



# ASSAIGAI ANALYTICAL LABORATORIES

## WORK ORDER 7821

<input type="checkbox"/> HAZARDOUS <input type="checkbox"/> NON-HAZARDOUS	DATE RECEIVED 7/28/91	ESTIMATED COST
CUSTOMER P.O. NUMBER	TIME RECEIVED 9:30	DUE DATE 8/29/91

### ACCOUNT INFORMATION

CUSTOMER'S NAME Emor	CONTACT Larry
ADDRESS	PHONE NUMBER

CITY / STATE / ZIP  
Roswell

### PARTY RESPONSIBLE FOR PAYMENT IF OTHER THAN ABOVE

NAME	CONTACT	ACCOUNT STATUS PAYMENT REC'D. <input checked="" type="checkbox"/> OPEN ACCOUNT <input checked="" type="checkbox"/> CASH <input type="checkbox"/> CHECK NUMBER <input type="checkbox"/>
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
<input type="checkbox"/> WATER <input checked="" type="checkbox"/> SOIL <input type="checkbox"/> OIL <input type="checkbox"/> SLUDGE <input type="checkbox"/> OTHER	8 NO. OF CONTAINERS 8	<input checked="" type="checkbox"/> REGULAR (10 WKG DAYS) <input type="checkbox"/> RUSH (3 DAYS) <input type="checkbox"/> EMERGENCY (STAT)  *(SUBJECT TO WORK LOG)	Station 9

SAMPLE DELIVERED BY FEDX SIGNATURE [Signature] DATE 7/26/91

### ANALYSIS REQUEST

WORK DESCRIPTION  
SOIL

SPECIAL INSTRUCTIONS

BILLING: ☐ PICKUP ☐ MAIL

LOGGED IN BY  
[Signature]



**Assaigai Analytical Labs  
7300 Jefferson NE  
Albuquerque, NM 87109**

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

**ENRON/TRANSWESTERN PIPELINE  
6381 N. MAIN STREET  
P.O. BOX 1717  
ROSWELL, NM 88202-1717  
Attn: LARRY CAMPBELL  
Invoice Number:**

**Order #: 91-08-024  
Date: 08/16/91 14:31  
Work ID: STATION 9 - O.S. YARD 7885  
Date Received: 08/02/91  
Date Completed: 08/16/91**

**SAMPLE IDENTIFICATION**

<u>Sample Number</u>	<u>Sample Description</u>
01	OSBH3 44.1-44.3
03	OSBH4 27.5 - 27.7
05	OSBH5 19.6 - 19.9
07	OSBH6 13.6 - 13.8
09	OSBH6 52.6 - 52.8
11	OSBH7 22.1 - 22.3

<u>Sample Number</u>	<u>Sample Description</u>
02	OSBH3 54.8 - 55.0
04	OSBH5 14.0 - 14.2
06	OSBH5 23.4 - 23.6
08	OSBH6 47.0 - 47.2
10	OSBH6 70.0 - 71.0



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08/16/91 14:31

**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



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TEST RESULTS BY SAMPLE

Sample: 01A OSBH3 44.1-44.3

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
PURGEABLE HALOCARBONS-SOIL		0.1			
BROMODICHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
BROMOFORM	<0.1	0.1	MG/KG	08/14/91	D/R
BROMOMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
CARBON TETRACHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROFORM	<0.1	0.1	MG/KG	08/14/91	D/R
2-CHLOROETHYL VINYL ETHER	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
DIBROMOCHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,3-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,4-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
DICHLORODIFLUOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1-DICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1-DICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
trans-1,2-DICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROPROPANE	<0.1	0.1	MG/KG	08/14/91	D/R
cis-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
trans-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/14/91	D/R



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
METHYLENE CHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,1-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,2-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
TETRACHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
TRICHLOROFLUOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
TRICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
VINYL CHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R

Sample: 02A OSBH3 54.8 - 55.0

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
AROMATIC VOLATILE ORGANICS		0.1			
BENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,4-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,3-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
ETHYL BENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
TOLUENE	<0.1	0.1	MG/KG	08/14/91	D/R
XYLENES	<0.1	0.1	MG/KG	08/14/91	D/R
PURGEABLE HALOCARBONS-SOIL		0.1			
BROMODICHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
BROMOFORM	<0.1	0.1	MG/KG	08/14/91	D/R
BROMOMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
CARBON TETRACHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
CHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROFORM	<0.1	0.1	MG/KG	08/14/91	D/R
2-CHLOROETHYL VINYL ETHER	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
DIBROMOCHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,3-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,4-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
DICHLORODIFLUOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1-DICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1-DICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
trans-1,2-DICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROPROPANE	<0.1	0.1	MG/KG	08/14/91	D/R
cis-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
trans-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/14/91	D/R
METHYLENE CHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,1-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,2-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
TETRACHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
TRICHLOROFLUOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
TRICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
VINYL CHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R



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Sample: 03A OSBH4 27.5 - 27.7

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
AROMATIC VOLATILE ORGANICS		0.1			
BENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,4-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,3-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
ETHYL BENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
TOLUENE	<0.1	0.1	MG/KG	08/14/91	D/R
XYLENES	<0.1	0.1	MG/KG	08/14/91	D/R
PURGEABLE HALOCARBONS-SOIL		0.1			
BROMODICHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
BROMOFORM	<0.1	0.1	MG/KG	08/14/91	D/R
BROMOMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
CARBON TETRACHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROFORM	<0.1	0.1	MG/KG	08/14/91	D/R
2-CHLOROETHYL VINYL ETHER	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
DIBROMOCHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,3-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,4-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
DICHLORODIFLUOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1-DICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
1,2-DICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1-DICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
trans-1,2-DICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROPROPANE	<0.1	0.1	MG/KG	08/14/91	D/R
cis-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
trans-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/14/91	D/R
METHYLENE CHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,1-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,2-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
TETRACHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
TRICHLOROFLUOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
TRICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
VINYL CHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R

Sample: 04A OSBH5 14.0 - 14.2

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
PURGEABLE HALOCARBONS-SOIL		0.1			
BROMODICHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
BROMOFORM	<0.1	0.1	MG/KG	08/14/91	D/R
BROMOMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
CARBON TETRACHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROFORM	<0.1	0.1	MG/KG	08/14/91	D/R



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
2-CHLOROETHYL VINYL ETHER	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
DIBROMOCHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,3-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,4-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
DICHLORODIFLUOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1-DICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1-DICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
trans-1,2-DICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROPROPANE	<0.1	0.1	MG/KG	08/14/91	D/R
cis-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
trans-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/14/91	D/R
METHYLENE CHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,1-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,2-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
TETRACHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
TRICHLOROFLUOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
TRICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
VINYL CHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R



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Sample: 05A OSBH5 19.6 - 19.9

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
PURGEABLE HALOCARBONS-SOIL		0.1			
BROMODICHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
BROMOFORM	<0.1	0.1	MG/KG	08/14/91	D/R
BROMOMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
CARBON TETRACHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROFORM	<0.1	0.1	MG/KG	08/14/91	D/R
2-CHLOROETHYL VINYL ETHER	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
DIBROMOCHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,3-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,4-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
DICHLORODIFLUOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1-DICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1-DICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
trans-1,2-DICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROPROPANE	<0.1	0.1	MG/KG	08/14/91	D/R
cis-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
trans-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/14/91	D/R
METHYLENE CHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,1-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
1,1,2-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
TETRACHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
TRICHLOROFLUOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
TRICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
VINYL CHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R

Sample: 06A OSBH5 23.4 - 23.6

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
AROMATIC VOLATILE ORGANICS		0.1			
BENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,4-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,3-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
ETHYL BENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
TOLUENE	<0.1	0.1	MG/KG	08/14/91	D/R
XYLENES	<0.1	0.1	MG/KG	08/14/91	D/R
PURGEABLE HALOCARBONS-SOIL		0.1			
BROMODICHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
BROMOFORM	<0.1	0.1	MG/KG	08/14/91	D/R
BROMOMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
CARBON TETRACHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROFORM	<0.1	0.1	MG/KG	08/14/91	D/R



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
2-CHLOROETHYL VINYL ETHER	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
DIBROMOCHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,3-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,4-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
DICHLORODIFLUOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1-DICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1-DICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
trans-1,2-DICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROPROPANE	<0.1	0.1	MG/KG	08/14/91	D/R
cis-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
trans-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/14/91	D/R
METHYLENE CHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,1-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,2-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
TETRACHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
TRICHLOROFLUOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
TRICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
VINYL CHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R



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Sample: 07A OSBH6 13.6 - 13.8

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
PURGEABLE HALOCARBONS-SOIL		0.1			
BROMODICHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
BROMOFORM	<0.1	0.1	MG/KG	08/14/91	D/R
BROMOMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
CARBON TETRACHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROFORM	<0.1	0.1	MG/KG	08/14/91	D/R
2-CHLOROETHYL VINYL ETHER	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
DIBROMOCHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,3-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,4-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
DICHLORODIFLUOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1-DICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1-DICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
trans-1,2-DICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROPROPANE	<0.1	0.1	MG/KG	08/14/91	D/R
cis-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
trans-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/14/91	D/R
METHYLENE CHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,1-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
1,1,2-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
TETRACHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
TRICHLOROFLUOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
TRICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
VINYL CHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R

Sample: 08A OSBH6 47.0 - 47.2

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
PURGEABLE HALOCARBONS-SOIL		0.1			
BROMODICHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
BROMOFORM	<0.1	0.1	MG/KG	08/14/91	D/R
BROMOMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
CARBON TETRACHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROFORM	<0.1	0.1	MG/KG	08/14/91	D/R
2-CHLOROETHYL VINYL ETHER	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
DIBROMOCHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,3-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,4-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
DICHLORODIFLUOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1-DICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R



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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-DICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
trans-1,2-DICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROPROPANE	<0.1	0.1	MG/KG	08/14/91	D/R
cis-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
trans-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/14/91	D/R
METHYLENE CHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,1-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,2-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
TETRACHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
TRICHLOROFLUOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
TRICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
VINYL CHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R

Sample: 09A OSBH6 52.6 - 52.8

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
PURGEABLE HALOCARBONS-SOIL		0.1			
BROMODICHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
BROMOFORM	<0.1	0.1	MG/KG	08/14/91	D/R
BROMOMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
CARBON TETRACHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROFORM	<0.1	0.1	MG/KG	08/14/91	D/R
2-CHLOROETHYL VINYL ETHER	<0.1	0.1	MG/KG	08/14/91	D/R



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
CHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
DIBROMOCHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,3-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,4-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
DICHLORODIFLUOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1-DICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1-DICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
trans-1,2-DICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROPROPANE	<0.1	0.1	MG/KG	08/14/91	D/R
cis-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
trans-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/14/91	D/R
METHYLENE CHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,1-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,2-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
TETRACHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
TRICHLOROFLUOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
TRICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
VINYL CHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R

Sample: 10A OSBH6 70.0 - 71.0

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
AROMATIC VOLATILE ORGANICS		0.1			



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
BENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,4-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,3-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
ETHYL BENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
TOLUENE	<0.1	0.1	MG/KG	08/14/91	D/R
XYLENES	<0.1	0.1	MG/KG	08/14/91	D/R
PURGEABLE HALOCARBONS-SOIL		0.1			
BROMODICHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
BROMOFORM	<0.1	0.1	MG/KG	08/14/91	D/R
BROMOMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
CARBON TETRACHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROFORM	<0.1	0.1	MG/KG	08/14/91	D/R
2-CHLOROETHYL VINYL ETHER	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
DIBROMOCHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,3-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,4-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
DICHLORODIFLUOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1-DICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1-DICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
trans-1,2-DICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROPROPANE	<0.1	0.1	MG/KG	08/14/91	D/R



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
cis-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
trans-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/14/91	D/R
METHYLENE CHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,1-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,2-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
TETRACHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
TRICHLOROFLUOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
TRICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
VINYL CHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R

Sample: 11A OSBH7 22.1 - 22.3

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
AROMATIC VOLATILE ORGANICS		0.1			
BENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,4-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,3-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
ETHYL BENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
TOLUENE	<0.1	0.1	MG/KG	08/14/91	D/R
XYLENES	<0.1	0.1	MG/KG	08/14/91	D/R
PURGEABLE HALOCARBONS-SOIL		0.1			
BROMODICHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
BROMOFORM	<0.1	0.1	MG/KG	08/14/91	D/R



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
BROMOMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
CARBON TETRACHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROFORM	<0.1	0.1	MG/KG	08/14/91	D/R
2-CHLOROETHYL VINYL ETHER	<0.1	0.1	MG/KG	08/14/91	D/R
CHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
DIBROMOCHLOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,3-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,4-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/14/91	D/R
DICHLORODIFLUOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1-DICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1-DICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
trans-1,2-DICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,2-DICHLOROPROPANE	<0.1	0.1	MG/KG	08/14/91	D/R
cis-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
trans-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/14/91	D/R
METHYLENE CHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,1-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
1,1,2-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
TETRACHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
TRICHLOROFLUOROMETHANE	<0.1	0.1	MG/KG	08/14/91	D/R
TRICHLOROETHENE	<0.1	0.1	MG/KG	08/14/91	D/R
VINYL CHLORIDE	<0.1	0.1	MG/KG	08/14/91	D/R



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Order # 91-08-024  
08/16/91 14:31

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TEST METHODOLOGIES

8010\_S = USEPA SW-846 METHOD # 8010

8020 = USEPA SW-846 METHOD # 8020



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TRANSWESTERN PIPELINE COMPANY

CHAIN OF CUSTODY

District: ROSWELL

Date: 8-1-91

Sample Location  
Valve or Receiver No.

Vol. Collect.  
During Flush

Sampler

STATION 9 - O.S. VALVE

METRIC CORP

SAMPLE ID NUMBER	SOLVENT USED	SAMPLE ICED	ANALYSES REQUESTED
058H3 44.1-44.3		YES	8010
058H3 54.8-55.0		YES	8010 - 8020
058H4 27.5-27.7		YES	8010 - 8020
058H5 19.0-19.2		YES	8010
058H5 19.6-19.9		YES	8010
058H5 23.4-23.6		YES	8010 - 8020
058H6 13.6-13.8		YES	8010
058H6 47.8-47.2		YES	8010
058H6 52.6-52.8		YES	8010
058H6 70.0-71.0		YES	8010 - 8020
058H7 22.1-22.3		YES	8010 - 8020

Relinquished By EARL SHANLEY - TWPL CO.

Date 8-1-91

Relinquished To FRO-X

Date 8-1-91

Relinquished By \_\_\_\_\_

Date \_\_\_\_\_

Relinquished To \_\_\_\_\_

Date \_\_\_\_\_

Relinquished By \_\_\_\_\_

Date \_\_\_\_\_

Relinquished To \_\_\_\_\_

Date \_\_\_\_\_

Relinquished By \_\_\_\_\_

Date \_\_\_\_\_

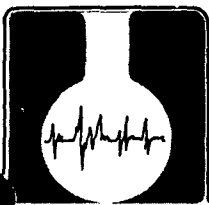
Relinquished By \_\_\_\_\_

Date \_\_\_\_\_

Laboratory: Assaiu Labs.

Received: [Signature]

Date 8/2/91



# ASSAIGAI ANALYTICAL LABORATORIES

**WORK ORDER**  
**7885**

<input type="checkbox"/> HAZARDOUS <input type="checkbox"/> NON-HAZARDOUS		DATE RECEIVED 8/2/91	ESTIMATED COST
CUSTOMER P.O. NUMBER		TIME RECEIVED 10:00	DUE DATE 8/16/91
<b>ACCOUNT INFORMATION</b>			
CUSTOMER'S NAME Emron / Transwestern		CONTACT Karin Campbell	
ADDRESS		PHONE NUMBER	
CITY / STATE / ZIP			
<b>PARTY RESPONSIBLE FOR PAYMENT IF OTHER THAN ABOVE</b>			<b>ACCOUNT STATUS</b>
NAME		CONTACT	
ADDRESS		PHONE NUMBER	
CITY / STATE / ZIP		PAYMENT REC'D. <input checked="" type="checkbox"/>	
		OPEN ACCOUNT <input checked="" type="checkbox"/>	
		CASH <input type="checkbox"/>	
		CHECK NUMBER <input type="checkbox"/>	
SPECIAL BILLING INSTRUCTIONS			
<b>SAMPLE INFORMATION</b>			
TYPE OF SAMPLE	NO. OF SAMPLES	*TURN AROUND TIME	SAMPLE IDENTIFICATION AND / OR SAMPLE SITE
<input type="checkbox"/> WATER	11	<input checked="" type="checkbox"/> REGULAR (10 WKG DAYS)	Station 9 - O.S. Yard.
<input checked="" type="checkbox"/> SOIL		<input type="checkbox"/> RUSH (3 DAYS)	
<input type="checkbox"/> OIL	NO. OF CONTAINERS	<input type="checkbox"/> EMERGENCY (STAT)	
<input type="checkbox"/> SLUDGE	11		
<input type="checkbox"/> OTHER			
		*(SUBJECT TO WORK LOG)	
SAMPLE DELIVERED BY Fed X		SIGNATURE	DATE 8/2/91
<b>ANALYSIS REQUEST</b>			
WORK DESCRIPTION			
5010			
5020			
SPECIAL INSTRUCTIONS			
BILLING: <input type="checkbox"/> PICKUP <input type="checkbox"/> MAIL		LOGGED IN BY	

**Assaigai Analytical Labs  
7300 Jefferson NE  
Albuquerque, NM 87109**

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

**ENRON/TRANSWESTERN PIPELINE  
6381 N. MAIN STREET  
P.O. BOX 1717  
ROSWELL, NM 88202-1717  
Attn: LARRY CAMPBELL  
Invoice Number:**

**Order #: 91-08-048  
Date: 08/20/91 14:21  
Work ID: STA 9 O.S.YARD 7908  
Date Received: 08/06/91  
Date Completed: 08/20/91**

**SAMPLE IDENTIFICATION**

<u>Sample Number</u>	<u>Sample Description</u>
01	OSBH7 33.5 - 33.7
03	OSHB8 4.6 - 4.9
05	OSBH8 49.7 - 49.9
07	OSBH9 32.0 - 32.5

<u>Sample Number</u>	<u>Sample Description</u>
02	OSBH7 37.0 - 37.2
04	OSBH8 33.9 - 34.1
06	OSBH9 4.5 - 4.9
08	OSBH9 49.5 - 49.7



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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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TEST RESULTS BY SAMPLE

Sample: 01A OSBH7 33.5 - 33.7

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
PURGEABLE HALOCARBONS-SOIL		0.1			
BROMODICHLOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
BROMOFORM	<0.1	0.1	MG/KG	08/15/91	SR
BROMOMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
CARBON TETRACHLORIDE	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROFORM	<0.1	0.1	MG/KG	08/15/91	SR
2-CHLOROETHYL VINYL ETHER	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
DIBROMOCHLOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,2-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
1,3-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
1,4-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
DICHLORODIFLUOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,1-DICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,2-DICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,1-DICHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
trans-1,2-DICHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
1,2-DICHLOROPROPANE	<0.1	0.1	MG/KG	08/15/91	SR
cis-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/15/91	SR
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
trans-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/15/91	SR



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
METHYLENE CHLORIDE	<0.1	0.1	MG/KG	08/15/91	SR
1,1,1-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,1,2-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
TETRACHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
TRICHLOROFLUOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
TRICHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
VINYL CHLORIDE	<0.1	0.1	MG/KG	08/15/91	SR

Sample: 02A OSBH7 37.0 - 37.2

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
AROMATIC VOLATILE ORGANICS		0.1			
BENZENE	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
1,4-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
1,3-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
1,2-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
ETHYL BENZENE	0.19	0.1	MG/KG	08/15/91	SR
TOLUENE	<0.1	0.1	MG/KG	08/15/91	SR
XYLENES	0.44	0.1	MG/KG	08/15/91	SR
PURGEABLE HALOCARBONS-SOIL		0.1			
BROMODICHLOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
BROMOFORM	<0.1	0.1	MG/KG	08/15/91	SR
BROMOMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
CARBON TETRACHLORIDE	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR

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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
CHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROFORM	<0.1	0.1	MG/KG	08/15/91	SR
2-CHLOROETHYL VINYL ETHER	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
DIBROMOCHLOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,2-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
1,3-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
1,4-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
DICHLORODIFLUOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,1-DICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,2-DICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,1-DICHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
trans-1,2-DICHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
1,2-DICHLOROPROPANE	<0.1	0.1	MG/KG	08/15/91	SR
cis-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/15/91	SR
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
trans-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/15/91	SR
METHYLENE CHLORIDE	<0.1	0.1	MG/KG	08/15/91	SR
1,1,1-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,1,2-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
TETRACHLOROETHENE	0.17	0.1	MG/KG	08/15/91	SR
TRICHLOROFLUOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
TRICHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
VINYL CHLORIDE	<0.1	0.1	MG/KG	08/15/91	SR



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Sample: 03A OSHB8 4.6 - 4.9

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
PURGEABLE HALOCARBONS-SOIL		0.1			
BROMODICHLOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
BROMOFORM	<0.1	0.1	MG/KG	08/15/91	SR
BROMOMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
CARBON TETRACHLORIDE	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROFORM	<0.1	0.1	MG/KG	08/15/91	SR
2-CHLOROETHYL VINYL ETHER	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
DIBROMOCHLOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,2-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
1,3-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
1,4-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
DICHLORODIFLUOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,1-DICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,2-DICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,1-DICHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
trans-1,2-DICHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
1,2-DICHLOROPROPANE	<0.1	0.1	MG/KG	08/15/91	SR
cis-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/15/91	SR
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
trans-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/15/91	SR
METHYLENE CHLORIDE	<0.1	0.1	MG/KG	08/15/91	SR
1,1,1-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
1,1,2-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
TETRACHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
TRICHLOROFLUOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
TRICHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
VINYL CHLORIDE	<0.1	0.1	MG/KG	08/15/91	SR

Sample: 04A OSBH8 33.9 - 34.1

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
PURGEABLE HALOCARBONS-SOIL		0.1			
BROMODICHLOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
BROMOFORM	<0.1	0.1	MG/KG	08/15/91	SR
BROMOMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
CARBON TETRACHLORIDE	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROBENZENE	0.12	0.1	MG/KG	08/15/91	SR
CHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROFORM	<0.1	0.1	MG/KG	08/15/91	SR
2-CHLOROETHYL VINYL ETHER	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
DIBROMOCHLOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,2-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
1,3-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
1,4-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
DICHLORODIFLUOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,1-DICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,2-DICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR



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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-DICHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
trans-1,2-DICHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
1,2-DICHLOROPROPANE	<0.1	0.1	MG/KG	08/15/91	SR
cis-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/15/91	SR
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
trans-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/15/91	SR
METHYLENE CHLORIDE	<0.1	0.1	MG/KG	08/15/91	SR
1,1,1-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,1,2-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
TETRACHLOROETHENE	0.16	0.1	MG/KG	08/15/91	SR
TRICHLOROFLUOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
TRICHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
VINYL CHLORIDE	<0.1	0.1	MG/KG	08/15/91	SR

Sample: 05A OSBH8 49.7 - 49.9

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
AROMATIC VOLATILE ORGANICS		0.1			
BENZENE	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
1,4-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
1,3-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
1,2-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
ETHYL BENZENE	0.14	0.1	MG/KG	08/15/91	SR
TOLUENE	<0.1	0.1	MG/KG	08/15/91	SR
XYLENES	0.3	0.1	MG/KG	08/15/91	SR



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
PURGEABLE HALOCARBONS-SOIL		0.1			
BROMODICHLOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
BROMOFORM	<0.1	0.1	MG/KG	08/15/91	SR
BROMOMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
CARBON TETRACHLORIDE	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROFORM	<0.1	0.1	MG/KG	08/15/91	SR
2-CHLOROETHYL VINYL ETHER	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
DIBROMOCHLOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,2-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
1,3-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
1,4-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
DICHLORODIFLUOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,1-DICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,2-DICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,1-DICHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
trans-1,2-DICHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
1,2-DICHLOROPROPANE	<0.1	0.1	MG/KG	08/15/91	SR
cis-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/15/91	SR
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
trans-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/15/91	SR
METHYLENE CHLORIDE	<0.1	0.1	MG/KG	08/15/91	SR
1,1,1-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,1,2-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
TETRACHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
TRICHLOROFLUOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
TRICHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
VINYL CHLORIDE	<0.1	0.1	MG/KG	08/15/91	SR



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Order # 91-08-048  
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Sample: 06A OSBH9 4.5 - 4.9

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
PURGEABLE HALOCARBONS-SOIL		0.1			
BROMODICHLOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
BROMOFORM	<0.1	0.1	MG/KG	08/15/91	SR
BROMOMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
CARBON TETRACHLORIDE	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROFORM	<0.1	0.1	MG/KG	08/15/91	SR
2-CHLOROETHYL VINYL ETHER	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
DIBROMOCHLOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,2-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
1,3-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
1,4-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
DICHLORODIFLUOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,1-DICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,2-DICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,1-DICHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
trans-1,2-DICHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
1,2-DICHLOROPROPANE	<0.1	0.1	MG/KG	08/15/91	SR
cis-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/15/91	SR
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
trans-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/15/91	SR
METHYLENE CHLORIDE	<0.1	0.1	MG/KG	08/15/91	SR
1,1,1-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR



Order # 91-08-048  
08/20/91 14:21

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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
1,1,2-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
TETRACHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
TRICHLOROFLUOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
TRICHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
VINYL CHLORIDE	<0.1	0.1	MG/KG	08/15/91	SR

Sample: 07A OSBH9 32.0 - 32.5

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
PURGEABLE HALOCARBONS-SOIL		0.1			
BROMODICHLOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
BROMOFORM	<0.1	0.1	MG/KG	08/15/91	SR
BROMOMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
CARBON TETRACHLORIDE	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROFORM	<0.1	0.1	MG/KG	08/15/91	SR
2-CHLOROETHYL VINYL ETHER	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
DIBROMOCHLOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,2-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
1,3-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
1,4-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
DICHLORODIFLUOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,1-DICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,2-DICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR





Order # 91-08-048  
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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-DICHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
trans-1,2-DICHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
1,2-DICHLOROPROPANE	<0.1	0.1	MG/KG	08/15/91	SR
cis-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/15/91	SR
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
trans-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/15/91	SR
METHYLENE CHLORIDE	<0.1	0.1	MG/KG	08/15/91	SR
1,1,1-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,1,2-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
TETRACHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
TRICHLOROFLUOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
TRICHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
VINYL CHLORIDE	<0.1	0.1	MG/KG	08/15/91	SR

Sample: 08A OSBH9 49.5 - 49.7

Collected:

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
AROMATIC VOLATILE ORGANICS		0.1			
BENZENE	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
1,4-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
1,3-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
1,2-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
ETHYL BENZENE	<0.1	0.1	MG/KG	08/15/91	SR
TOLUENE	<0.1	0.1	MG/KG	08/15/91	SR
XYLENES	<0.1	0.1	MG/KG	08/15/91	SR



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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
PURGEABLE HALOCARBONS-SOIL		0.1			
BROMODICHLOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
BROMOFORM	<0.1	0.1	MG/KG	08/15/91	SR
BROMOMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
CARBON TETRACHLORIDE	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROFORM	<0.1	0.1	MG/KG	08/15/91	SR
2-CHLOROETHYL VINYL ETHER	<0.1	0.1	MG/KG	08/15/91	SR
CHLOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
DIBROMOCHLOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,2-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
1,3-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
1,4-DICHLOROBENZENE	<0.1	0.1	MG/KG	08/15/91	SR
DICHLORODIFLUOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,1-DICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,2-DICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,1-DICHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
trans-1,2-DICHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
1,2-DICHLOROPROPANE	<0.1	0.1	MG/KG	08/15/91	SR
cis-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/15/91	SR
1,1,2,2-TETRACHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
trans-1,3-DICHLOROPROPENE	<0.1	0.1	MG/KG	08/15/91	SR
METHYLENE CHLORIDE	<0.1	0.1	MG/KG	08/15/91	SR
1,1,1-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
1,1,2-TRICHLOROETHANE	<0.1	0.1	MG/KG	08/15/91	SR
TETRACHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
TRICHLOROFLUOROMETHANE	<0.1	0.1	MG/KG	08/15/91	SR
TRICHLOROETHENE	<0.1	0.1	MG/KG	08/15/91	SR
VINYL CHLORIDE	<0.1	0.1	MG/KG	08/15/91	SR



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TEST METHODOLOGIES

8010\_S = USEPA SW-846 METHOD # 8010

8020 = USEPA SW-846 METHOD # 8020



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# ASSAIGAI ANALYTICAL LABORATORIES

WORK ORDER  
7908

<input type="checkbox"/> HAZARDOUS <input type="checkbox"/> NON-HAZARDOUS		DATE RECEIVED 8/6/91	ESTIMATED COST
CUSTOMER P.O. NUMBER		TIME RECEIVED 10:00	DUE DATE 8/30/91
<b>ACCOUNT INFORMATION</b>			
CUSTOMER'S NAME Enron/Texas Eastern Pipeline		CONTACT Larry Campbell	
ADDRESS		PHONE NUMBER 675 8022	
CITY / STATE / ZIP Houston			
<b>PARTY RESPONSIBLE FOR PAYMENT IF OTHER THAN ABOVE</b>			<b>ACCOUNT STATUS</b>
NAME		CONTACT	
ADDRESS		PHONE NUMBER	
CITY / STATE / ZIP		PAYMENT REC'D. <input checked="" type="checkbox"/> OPEN ACCOUNT <input checked="" type="checkbox"/> CASH <input type="checkbox"/> CHECK NUMBER <input type="checkbox"/>	
SPECIAL BILLING INSTRUCTIONS			
<b>SAMPLE INFORMATION</b>			
TYPE OF SAMPLE	NO. OF SAMPLES	*TURN AROUND TIME	SAMPLE IDENTIFICATION AND / OR SAMPLE SITE
<input type="checkbox"/> WATER <input checked="" type="checkbox"/> SOIL <input type="checkbox"/> OIL <input type="checkbox"/> SLUDGE <input type="checkbox"/> OTHER	6 NO. OF CONTAINERS 8	<input checked="" type="checkbox"/> REGULAR (10 WKG DAYS) <input type="checkbox"/> RUSH (3 DAYS) <input type="checkbox"/> EMERGENCY (STAT)  *(SUBJECT TO WORK LOG)	STN 9 O.S. YARD
SAMPLE DELIVERED BY J. L. [Signature]		SIGNATURE	DATE 8/6/91
<b>ANALYSIS REQUEST</b>			
WORK DESCRIPTION 010.5, 8020			
SPECIAL INSTRUCTIONS			
BILLING: <input type="checkbox"/> PICKUP <input type="checkbox"/> MAIL		LOGGED IN BY [Signature]	

TRANSWESTERN PIPELINE COMPANY

CHAIN OF CUSTODY

District: ROSWELL

Date: 8-5-91

Sample Location  
Valve or Receiver No.

Vol. Collect.  
During Flush

Sampler

STAT. 9 - O.S. YARD

METRIC

<u>SAMPLE ID NUMBER</u>	<u>SOLVENT USED</u>	<u>SAMPLE ICED</u>	<u>ANALYSES REQUESTED</u>
<u>OSBH7 33.5-33.7</u>		<u>YES</u>	<u>8010</u>
<u>OSBH7 37.0-37.2</u>		<u>YES</u>	<u>8010, 8020</u>
<u>OSBH8 4.6-4.7</u>		<u>YES</u>	<u>8010</u>
<u>OSBH8 33.9-34.1</u>		<u>YES</u>	<u>8010</u>
<u>OSBH8 49.7-49.9</u>		<u>YES</u>	<u>8010, 8020</u>
<u>OSBH9 1.5-4.9</u>		<u>YES</u>	<u>8010</u>
<u>OSBH9 32.0-32.5</u>		<u>YES</u>	<u>8010</u>
<u>OSBH9 47.5-49.7</u>		<u>YES</u>	<u>8010, 8020</u>

Relinquished By EARL CHANLEY / TWPL  
Relinquished To ICP - X

Date 8-5-91  
Date 8-5-91

Relinquished By \_\_\_\_\_  
Relinquished To \_\_\_\_\_

Date \_\_\_\_\_  
Date \_\_\_\_\_

Relinquished By \_\_\_\_\_  
Relinquished To \_\_\_\_\_

Date \_\_\_\_\_  
Date \_\_\_\_\_

Relinquished By \_\_\_\_\_  
Relinquished By \_\_\_\_\_

Date \_\_\_\_\_  
Date \_\_\_\_\_

Laboratory: ASSAIGAI LABS  
Received: [Signature]

Date 8/6/91

APPENDIX C  
LABORATORY RESULTS  
AND  
TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

**Assaigai Analytical Labs**  
7300 Jefferson NE  
Albuquerque, NM 87109

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

**ENRON/TRANSWESTERN PIPELINE**  
6381 N. MAIN STREET  
P.O. BOX 1717  
ROSWELL, NM 88202-1717  
Attn: LARRY CAMPBELL  
Invoice Number: 911774

**Order #: 91-08-239**  
**Date: 09/05/91 12:15**  
**Work ID: STATION 9**  
**Date Received: 08/22/91**  
**Date Completed: 09/05/91**

7752

\*\*\*\*\*  
\* REFERENCE WO#: 91-07-215 \*  
\*\*\*\*\*

**SAMPLE IDENTIFICATION**

<u>Sample Number</u>	<u>Sample Description</u>
03	PIT I 2.8 - 3.0
05	PIT I 13.5 - 13.7
07	PIT I 26.8 - 27.0
09	PIT I 41.6 - 41.8

<u>Sample Number</u>	<u>Sample Description</u>
04	PIT I 9.2 - 9.4
06	PIT I 18.8 - 19.0
08	PIT I 30.6 - 30.8
10	PIT I 43.5 - 43.7



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Order # 91-08-239  
09/05/91 12:15

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

  
\_\_\_\_\_  
Certified By  
SYED N. RIZVI



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Order # 91-08-239  
09/05/91 12:15

Assaigai Analytical Labs

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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>
03A	PIT I 2.8 - 3.0	25,000	MG/KG	08/30/91	09/05/91	PV
04A	PIT I 9.2 - 9.4	39,000	MG/KG	08/30/91	09/05/91	PV
05A	PIT I 13.5 - 13.7	55,000	MG/KG	08/30/91	09/05/91	PV
06A	PIT I 18.8 - 19.0	20,000	MG/KG	08/30/91	09/05/91	PV
07A	PIT I 26.8 - 27.0	11,000	MG/KG	08/30/91	09/05/91	PV
08A	PIT I 30.6 - 30.8	16	MG/KG	08/30/91	09/05/91	PV
09A	PIT I 41.6 - 41.8	16	MG/KG	08/30/91	09/05/91	PV
10A	PIT I 43.5 - 43.7	56	MG/KG	08/30/91	09/05/91	PV



Assaigai Analytical Labs  
7300 Jefferson NE  
Albuquerque, NM 87109

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

ENRON/TRANSWESTERN PIPELINE  
6381 N. MAIN STREET  
P.O. BOX 1717  
ROSWELL, NM 88202-1717  
Attn: LARRY CAMPBELL  
Invoice Number: 911769

Order #: 91-08-240  
Date: 09/03/91 13:53  
Work ID: STATION #9  
Date Received: 08/22/91  
Date Completed: 09/03/91  
REFERENCE WO#: 91-07-257

7784

SAMPLE IDENTIFICATION

<u>Sample Number</u>	<u>Sample Description</u>
01	PIT 2 SAMPLE 001
03	PIT 2 26.0 - 26.2
05	PIT 2 39.8 - 39.9
07	PIT 2 57.5 - 57.8
09	
11	PIT 3 BH-2 25.0 - 25.2

<u>Sample Number</u>	<u>Sample Description</u>
02	PIT 2 SAMPLE 002
04	PIT 2 29.1 - 29.3
06	PIT 2 44.1 - 44.3
08	PIT 2 69.9 - 70.1
10	
12	PIT 3 BH-1 30.7 - 30.9



Order # 91-08-240  
09/03/91 13:53

Assaigai Analytical Labs

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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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Independent Laboratories, Inc.

Order # 91-08-240  
09/03/91 13:53

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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	PIT 2 SAMPLE 001	<5.0	MG/KG	08/30/91	09/03/91	PV
02A	PIT 2 SAMPLE 002	13,000	MG/KG	08/30/91	09/03/91	PV
03A	PIT 2 26.0 - 26.2	170	MG/KG	08/30/91	09/03/91	PV
04A	PIT 2 29.1 - 29.3	<5.0	MG/KG	08/30/91	09/03/91	PV
05A	PIT 2 39.8 - 39.9	2600	MG/KG	08/30/91	09/03/91	PV
06A	PIT 2 44.1 - 44.3	44	MG/KG	08/30/91	09/03/91	PV
07A	PIT 2 57.5 - 57.8	250	MG/KG	08/30/91	09/03/91	PV
08A	PIT 2 69.9 - 70.1	<5.0	MG/KG	08/30/91	09/03/91	PV
09A						
10A						
11A	PIT 3 BH-2 25.0 - 25.2	<5.0	MG/KG	08/30/91	09/03/91	PV
12A	PIT 3 BH-1 30.7 - 30.9	<5.0	MG/KG	08/30/91	09/03/91	PV



**Assaigai Analytical Labs**  
7300 Jefferson NE  
Albuquerque, NM 87109

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

ENRON/TRANSWESTERN PIPELINE  
6381 N. MAIN STREET  
P.O. BOX 1717  
ROSWELL, NM 88202-1717  
Attn: LARRY CAMPBELL  
Invoice Number: 911768

Order #: 91-08-241  
Date: 09/03/91 13:52  
Work ID: STATION #9  
Date Received: 08/22/91  
Date Completed: 09/03/91  
REFERENCE WO#: 91-07-276

7799

SAMPLE IDENTIFICATION

<u>Sample Number</u>	<u>Sample Description</u>
01	SG 91 28.6 - 28.8
03	SG 86 18.7 - 18.9
05	SG 86 35.0 - 35.2

<u>Sample Number</u>	<u>Sample Description</u>
02	SG 86 13.5 - 13.7
04	SG 86 24.9 - 25.1
06	SG 86 40.5 - 40.7



Order # 91-08-241  
09/03/91 13:52

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7300 JEFFERSON N.E., ALBUQUERQUE, N.M. 87109

Syed Rizvi  
Certified By  
SYED N. RIZVI



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Order # 91-08-241  
09/03/91 13:52

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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	SG 91 28.6 - 28.8	<5.0	MG/KG	08/30/91	09/03/91	PV
02A	SG 86 13.5 - 13.7	18,000	MG/KG	08/30/91	09/03/91	PV
03A	SG 86 18.7 - 18.9	5200	MG/KG	08/30/91	09/03/91	PV
04A	SG 86 24.9 - 25.1	<5.0	MG/KG	08/30/91	09/03/91	PV
05A	SG 86 35.0 - 35.2	8.0	MG/KG	08/30/91	09/03/91	PV
06A	SG 86 40.5 - 40.7	<5.0	MG/KG	08/30/91	09/03/91	PV



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Independent Laboratories, Inc.

Assaigai Analytical Labs  
7300 Jefferson NE  
Albuquerque, NM 87109

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

ENRON/TRANSWESTERN PIPELINE  
6381 N. MAIN STREET  
P.O. BOX 1717  
ROSWELL, NM 88202-1717  
Attn: LARRY CAMPBELL  
Invoice Number: 911773

Order #: 91-08-246  
Date: 09/05/91 12:13  
Work ID: STATION #9 O.S. YARD 7848  
Date Received: 08/22/91  
Date Completed: 09/05/91

\*\*\*\*\*  
\* REFERENCE WO#: 91-07-330 \*  
\*\*\*\*\*

SAMPLE IDENTIFICATION

<u>Sample Number</u>	<u>Sample Description</u>
01	OSBH3
03	SG349 2.9-4.6
05	SG349 14.0-14.8
07	SG349 25.3-26.3
09	SG360 0.0-2.5
11	SG360 9.0-9.9
13	SG360 19.0-20.0
15	SG360 29.0-29.4
17	SG361 4.0-5.0

<u>Sample Number</u>	<u>Sample Description</u>
02	SG349 0-1.8
04	SG349 9.0-10.0
06	SG349 20.3-21.3
08	SG349 29.7-30.4
10	SG360 4.0-5.0
12	SG360 14.0-14.7
14	SG360 24.0-25.0
16	SG361 0-2.5
18	SG361 9.0-10.0



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Order # 91-08-246  
09/05/91 12:13

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SAMPLE IDENTIFICATION

<u>Sample Number</u>	<u>Sample Description</u>
19	SG361 16.0-16.4
21	SG361 24.0-25.0

<u>Sample Number</u>	<u>Sample Description</u>
20	SG361 19.5-19.8
22	SG361 38.9-39.3

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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Order # 91-08-246  
09/05/91 12:13

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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	OSBH3	<5.0	MG/KG	08/30/91	09/04/91	PV
02A	SG349 0-1.8	<5.0	MG/KG	08/30/91	09/05/91	PV
03A	SG349 2.9-4.6	<5.0	MG/KG	08/30/91	09/05/91	PV
04A	SG349 9.0-10.0	<5.0	MG/KG	08/30/91	09/04/91	PV
05A	SG349 14.0-14.8	<5.0	MG/KG	08/30/91	09/04/91	PV
06A	SG349 20.3-21.3	<5.0	MG/KG	08/30/91	09/04/91	PV
07A	SG349 25.3-26.3	<5.0	MG/KG	08/30/91	09/04/91	PV
08A	SG349 29.7-30.4	8.0	MG/KG	08/30/91	09/04/91	PV
09A	SG360 0.0-2.5	<5.0	MG/KG	08/30/91	09/04/91	PV
10A	SG360 4.0-5.0	<5.0	MG/KG	08/30/91	09/04/91	PV
11A	SG360 9.0-9.9	<5.0	MG/KG	08/30/91	09/04/91	PV
12A	SG360 14.0-14.7	8.0	MG/KG	08/30/91	09/04/91	PV
13A	SG360 19.0-20.0	<5.0	MG/KG	08/30/91	09/04/91	PV
14A	SG360 24.0-25.0	<5.0	MG/KG	08/30/91	09/04/91	PV
15A	SG360 29.0-29.4	20	MG/KG	08/30/91	09/04/91	PV
16A	SG361 0-2.5	<5.0	MG/KG	08/30/91	09/04/91	PV
17A	SG361 4.0-5.0	<5.0	MG/KG	08/30/91	09/04/91	PV
18A	SG361 9.0-10.0	<5.0	MG/KG	08/30/91	09/04/91	PV
19A	SG361 16.0-16.4	<5.0	MG/KG	08/30/91	09/04/91	PV
20A	SG361 19.5-19.8	<5.0	MG/KG	08/30/91	09/04/91	PV
21A	SG361 24.0-25.0	<5.0	MG/KG	08/30/91	09/04/91	PV
22A	SG361 38.9-39.3	<5.0	MG/KG	08/30/91	09/04/91	PV



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**Assaigai Analytical Labs**  
**7300 Jefferson NE**  
**Albuquerque, NM 87109**

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

ENRON/TRANSWESTERN PIPELINE  
 6381 N. MAIN STREET  
 P.O. BOX 1717  
 ROSWELL, NM 88202-1717  
 Attn: LARRY CAMPBELL  
 Invoice Number: 911790

Order #: 91-08-245  
 Date: 09/06/91 08:52  
 Work ID: STATION #9  
 Date Received: 08/22/91  
 Date Completed: 09/06/91

7821

\*\*\*\*\*  
 \* REFERENCE WO#: 91-07-299 \*  
 \*\*\*\*\*

**SAMPLE IDENTIFICATION**

<u>Sample Number</u>	<u>Sample Description</u>
01	OSBH1 18.9 - 19.1
03	OSBH2 9.9 - 10.1
05	OSBH2 31.1 - 31.3
07	OSBH2 55.2 - 55.4

<u>Sample Number</u>	<u>Sample Description</u>
02	OSBH1 34.3 - 34.5
04	OSBH2 22.5 - 22.6
06	OSBH2 41.8 - 42.0
08	OSBH2 69.0 - 69.2



Order # 91-08-245  
09/06/91 08:52

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

*Syed Rizvi*

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SYED N. RIZVI



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09/06/91 08:52

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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	OSBH1 18.9 - 19.1	12	MG/KG	08/28/91	09/04/91	PV
02A	OSBH1 34.3 - 34.5	<5.0	MG/KG	08/28/91	09/04/91	PV
03A	OSBH2 9.9 - 10.1	<5.0	MG/KG	08/28/91	09/04/91	PV
04A	OSBH2 22.5 - 22.6	<5.0	MG/KG	08/28/91	09/04/91	PV
05A	OSBH2 31.1 - 31.3	68	MG/KG	08/28/91	09/04/91	PV
06A	OSBH2 41.8 - 42.0	24	MG/KG	08/28/91	09/04/91	PV
07A	OSBH2 55.2 - 55.4	16	MG/KG	08/30/91	09/05/91	PV
08A	OSBH2 69.0 - 69.2	16	MG/KG	08/30/91	09/05/91	PV



Assaigai Analytical Labs  
7300 Jefferson NE  
Albuquerque, NM 87109

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Phone: (505) 345-8964

ENRON/TRANSWESTERN PIPELINE  
6381 N. MAIN STREET  
P.O. BOX 1717  
ROSWELL, NM 88202-1717  
Attn: LARRY CAMPBELL  
Invoice Number: 911791

Order #: 91-08-247  
Date: 09/06/91 09:01  
Work ID: STATION 9 O.S. YARD 7885  
Date Received: 08/22/91  
Date Completed: 09/05/91

\*\*\*\*\*  
\* REFERENCE WO#: 91-08-024 \*  
\*\*\*\*\*

SAMPLE IDENTIFICATION

<u>Sample Number</u>	<u>Sample Description</u>
01	OSBH3 44.1-44.3
03	OSBH4 27.5-27.7
05	OSBH5 19.6-19.9
07	OSBH6 13.6-13.8
09	OSBH6 52.6-52.8
11	OSBH7 22.1-22.3

<u>Sample Number</u>	<u>Sample Description</u>
02	OSBH3 54.8-55.0
04	OSBH5 14.0-14.2
06	OSBH5 23.4-23.6
08	OSBH6 47.0-47.2
10	OSBH6 70.0-71.0



Order # 91-08-247  
09/06/91 09:01

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7300 JEFFERSON N.E., ALBUQUERQUE, N.M. 87109

*Syed Rizvi*

Certified By  
SYED N. RIZVI



Order # 91-08-247  
09/06/91 09:01

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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	OSBH3 44.1-44.3	16	MG/KG	08/29/91	09/03/91	PV
02A	OSBH3 54.8-55.0	16	MG/KG	08/29/91	09/03/91	PV
03A	OSBH4 27.5-27.7	<5.0	MG/KG	08/29/91	09/03/91	PV
04A	OSBH5 14.0-14.2	<5.0	MG/KG	08/29/91	09/03/91	PV
05A	OSBH5 19.6-19.9	16	MG/KG	08/29/91	09/03/91	PV
06A	OSBH5 23.4-23.6	12	MG/KG	08/29/91	09/03/91	PV
07A	OSBH6 13.6-13.8	12	MG/KG	08/29/91	09/03/91	PV
08A	OSBH6 47.0-47.2	<5.0	MG/KG	08/29/91	09/03/91	PV
09A	OSBH6 52.6-52.8	<5.0	MG/KG	08/29/91	09/03/91	PV
10A	OSBH6 70.0-71.0	<5.0	MG/KG	08/29/91	09/03/91	PV
11A	OSBH7 22.1-22.3	<5.0	MG/KG	08/29/91	09/03/91	PV



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7300 Jefferson NE  
Albuquerque, NM 87109

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ENRON/TRANSWESTERN PIPELINE  
6381 N. MAIN STREET  
P.O. BOX 1717  
ROSWELL, NM 88202-1717  
Attn: LARRY CAMPBELL  
Invoice Number: 911792

Order #: 91-08-248  
Date: 09/06/91 09:02  
Work ID: STATION 9 O.S. YARD 7908  
Date Received: 08/22/91  
Date Completed: 09/05/91

\*\*\*\*\*  
\* REFERENCE WO#: 91-08-048 \*  
\*\*\*\*\*

SAMPLE IDENTIFICATION

<u>Sample Number</u>	<u>Sample Description</u>
01	OSBH7 33.5-33.7
03	OSHB8 4.6-4.9
05	OSBH8 49.7-49.9
07	OSBH9 32.0-32.5

<u>Sample Number</u>	<u>Sample Description</u>
02	OSBH7 37.0-37.2
04	OSBH8 33.9-34.1
06	OSBH9 4.5-4.9
08	OSBH9 47.5-49.7



Order # 91-08-248  
09/06/91 09:02

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7300 JEFFERSON N.E., ALBUQUERQUE, N.M. 87109

*Syed Rizvi*

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Order # 91-08-248  
09/06/91 09:02

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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	OSBH7 33.5-33.7	<5.0	MG/KG	08/28/91	09/04/91	PV
02A	OSBH7 37.0-37.2	12	MG/KG	08/28/91	09/04/91	PV
03A	OSHB8 4.6-4.9	12	MG/KG	08/28/91	09/04/91	PV
04A	OSBH8 33.9-34.1	<5.0	MG/KG	08/28/91	09/04/91	PV
05A	OSBH8 49.7-49.9	12	MG/KG	08/28/91	09/04/91	PV
06A	OSBH9 4.5-4.9	8.0	MG/KG	08/28/91	09/04/91	PV
07A	OSBH9 32.0-32.5	150	MG/KG	08/28/91	09/04/91	PV
08A	OSBH9 47.5-49.7	8.0	MG/KG	08/28/91	09/04/91	PV



Order # 91-11-156  
11/20/91 14:50

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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
TOTAL REC PET HYDROCARBONS	8.0	5.0	MG/KG	11/19/91	PV



Order # 91-11-156  
11/20/91 14:50

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## TEST METHODOLOGIES

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

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS (IN SOIL) = USEPA METHOD # 418.1

