GW - 109 R

MONITORING REPORTS

DATE:

1996 - 1995

Semi-annual Report of Ground Water Remediation Activities

Transwestern Pipeline Company
WT-1 Compressor Station Dehy Area
Lea County, New Mexico

Submitted to:
New Mexico Oil Conservation Division

October 16, 1996

Prepared For:
Transwestern Pipeline Company
6381 North Main Street
Roswell, NM 88201

Prepared by:
Cypress Engineering Services, Inc.
16300 Katy Freeway, Suite 210
Houston, Texas 77094-1610

Semi-annual Report of Ground Water Remediation Activities

Transwestern Pipeline Company

WT-1 Compressor Station Dehy Area

I. Ground Water Assessment & Monitoring Activities

2nd and 3rd Quarter 1996 Ground Water Sampling Events

Transwestern has completed two quarterly sampling events since the last semi-annual report submitted on April 30, 1996. The 2nd quarter 1996 sampling event was completed on May 14, 1996 and the 3rd quarter 1996 sampling event was completed on August 12, 1996.

Prior to sampling, the depth to water, and the depth to hydrocarbon where phase separated hydrocarbon (PSH) was present, was determined for each monitor well. Table 1 presents a summary of ground water and PSH surface elevation information. A ground water surface elevation map for the August, 1996, sampling event is included as Figure 2.

Ground water samples were collected from the four monitor wells which did not contain PSH. Ground water samples were delivered to a lab for analysis by EPA Method 8020 for benzene, toluene, ethylbenzene, and xylenes (BTEX). Table 2 presents a summary of lab results. A BTEX distribution map for the August, 1996, sampling event is included as Figure 3.

Vapor samples were collected from all nine soil vapor extraction (SVE) wells during the August, 1996, sampling event. Vapor samples were delivered to a lab for analysis by EPA Method 8015 for total VOCs. Table 3 presents the results for VOC analyses. A VOC distribution map for this sampling event is included as Figure 4.

There were approximately 9 gallons of purge water generated during the 2nd quarter 1996 sampling event and approximately 8.5 gallons during the 3rd quarter 1996 sampling event. The purge water from both sampling events was placed inside the secondary containment for the condensate tank so that the water could evaporate.

Results/Conclusions from Ground Water Sampling Events

Occurrence and Direction of Ground Water Flow

Water table elevations measured during the 3rd quarter 1996 sampling event are indicated on Figure 2. Consistent with previous sampling events, there is very little shallow ground water present just west of the hydrocarbon release area as indicated by the low level of ground water measured in monitor well MW-11.

The apparent direction of ground water flow is toward the north and is consistent with water table elevations previously measured at this site.

Lateral Extent of Phase Separated Hydrocarbon

The lateral extent of PSH is currently defined by the occurrence of PSH at the water table in monitor well MW-10 and the absence of PSH in all other monitor wells. The thickness of accumulated PSH in the monitor well MW-10 well casing was measured at 1.65 ft. in May, 1996, and 1.15 ft. in August, 1996. Based on the information currently available, the volume and lateral extent of PSH in the area appears to be relatively limited.

At this time, the presence of PSH does not appear to require a modification of the existing remediation plan due to the relatively limited lateral extent of PSH and the SVE operation currently in progress.

Condition of Affected Ground Water

The condition of affected ground water, based on the recent sampling events, has not changed significantly from previous sampling events as evidenced by the information presented in Table 2. The three monitor wells downgradient of the release area continue to yield ground water samples that are non-detect for BTEX constituents. The monitor well located about 200 feet south of the release area continues to yield samples that are near non-detect for BTEX constituents with a maximum detected concentration for benzene of 14 ppb.

II. Summary of Remediation Activities

Remediation Activities Completed During the 2nd and 3rd Quarter of 1996

The following remediation activities were completed during the 2nd and 3rd quarter of 1996: 1) Transwestern obtained an air permit from the NMED APCB to operate the SVE remediation system; 2) Transwestern completed installation and startup of the SVE remediation system in June, 1996; 3) Transwestern completed two quarterly ground water sampling events as required by the remediation plan; and 4) Transwestern has continued routine O&M of the remediation system to ensure efficient and effective operation.

Current Status of Remediation Activities

Routine O&M of the SVE system is ongoing.

Remediation Activities Planned for the Remainder of 1996

Transwestern plans to continue with routine O&M of the SVE remediation system through the end of 1996. Transwestern anticipates that the SVE system will be in operation at least through mid-1997 in order to achieve its cleanup objectives. In addition, Transwestern plans to complete the 4th quarter ground water sampling event in November, 1996.

Semi-annual Report of Ground Water Remediation Activities

Transwestern Pipeline Company
WT-1 Compressor Station Dehy Area

Tables

Table 1. Summary of Ground Water Surface Elevations
TW WT-1 Compressor Station Dehy Area

Well	Top of Casing (ft)	Sampling Date 11/94			Sampling Date 11/21/95			Sampling Date 2/22/96			Sampling Date 5/14/96			Sampling Date 8/12/96		
		Depth to Hydrocarbon (HC) (ft)	Depth to Water or HC/Water Interface (ft)	Groundwater Surface Elevation (ft)	Depth to Hydrocarbon (HC) (ft)	Depth to Water or HC/Water Interface (ft)	Groundwater Surface Elevation (ft)	Depth to Hydrocarbon (HC) (ft)	Depth to Water or HC/Water Interface (ft)	Groundwater Surface Elevation (ft)	Depth to Hydrocarbon (HC) (ft)	Depth to Water or HC/Water Interface (ft)	Groundwater Surface Elevation (ft)	Depth to Hydrocarbon (HC) (ft)	Depth to Water or HC/Water Interface (ft)	Groundwater Surface Elevation (ft)
MW-9	3557.31	(a)	55.14	3502.17	(a)	55.67	3501.64	(a)	55.27	3502.04	(a)	55.18	3502.13	(a)	55.53	3501.78
MW-10	3553.45	(b)	52.63	3500.82	52.31	54.21	3500.76	52.08	53.75	3501.04	51.93	53.58	3501.19	52.25	53.40	3500.92
MW-11	3547.84	(a)	Dry	NA	(a)	58.10	3489.74	(a)	56.70	3491.14	(a)	57.33	3490.51	(a)	56.96	3490.88
MW-12	3551.19	(a)	49.31	3501.88	(a)	50.49	3500.70	(a)	50.13	3501.06	(a)	49.96	3501.23	(a)	50.31	3500.88
MW-13	3547.78	(a)	49.70	3498.08	(a)	49.55	3498.23	(a)	49.27	3498.51	(a)	49.15	3498.63	(a)	49.40	3498.38

NOTES:
(a) Not applicable since no measurable thickness of hydrocarbon is present
(b) Information not available
(c) Corrections to ground water surface elevation for presence of hydrocarbon is calculated assuming a specific gravity of 0.76

Table 2. Summary of Ground Water Analyses
TW WT-1 Compressor Station Dehy Area

Well	Sampling Date	BTEX Concentration - (ug/L)			
		Benzene	Toluene	Ethylbenzene	Total Xylenes
NMWQCC Standard		10	750	750	620
MW-9	11/94	**12**	<0.5	<0.5	<0.5
	11/95	**4**	3	<2	11
	2/96	**13**	<2	<2	<2
	5/96	**14**	<2	<2	<2
	8/96	**14**	<2	<2	<3
MW-10	11/94	**9000**[b]	**16000**[b]	620[b]	**8500**[b]
	11/95	(a)	(a)	(a)	(a)
	2/96	(a)	(a)	(a)	(a)
	5/96	(a)	(a)	(a)	(a)
	8/96	(a)	(a)	(a)	(a)
MW-11	11/94	(c)	(c)	(c)	(c)
	11/95	<2	<2	<2	<2
	2/96	<2	<2	<2	<2
	5/96	<2	2	<2	3
	8/96	<2	<2	<2	<3
MW-12	11/94	<0.5	1.9	<0.5	3.1
	11/95	<2	<2	<2	<2
	2/96	<2	<2	<2	<2
	5/96	<2	<2	<2	<2
	8/96	<2	<2	<2	<3
MW-13	11/94	<0.5	<0.5	<0.5	<0.5
	11/95	<2	<2	<2	<2
	2/96	<2	<2	<2	<2
	5/96	<2	3	<2	7
	8/96	<2	<2	<2	<3

NOTES:
(a) Phase separated hydrocarbon present
(b) Sample analyzed at 25x dilution
(c) Dry Wellbore

Table 3. Summary of SVE Air Analyses
TW WT-1 Compressor Station Dehy Area

SVE Well	Sampling Date	VOC Concentration - (ug/L) Gasoline Range	VOC Concentration - (ppmv) [a] Gasoline Range
SVE-1	8/96	510	136
SVE-2	8/96	510	136
SVE-3	8/96	14,000	3,749
SVE-4	8/96	18,000	4,820
SVE-5	8/96	16,000	4,285
SVE-6	8/96	4,100	1,098
SVE-7	8/96	1,400	375
SVE-8	8/96	12,000	3,214
SVE-9	8/96	5,700	1,526

NOTES:

[a] Conversion Factor:

P = 0.88 atm, MW = 102 g/mole, R = 0.08205 L*atm/(K*mole), T = 293°K

C ppmv = C ug/L * ((R * T)/(MW*P))

C ppmv = C ug/L * 0.2678

Semi-annual Report of Ground Water Remediation Activities

Transwestern Pipeline Company
WT-1 Compressor Station Dehy Area

Figures

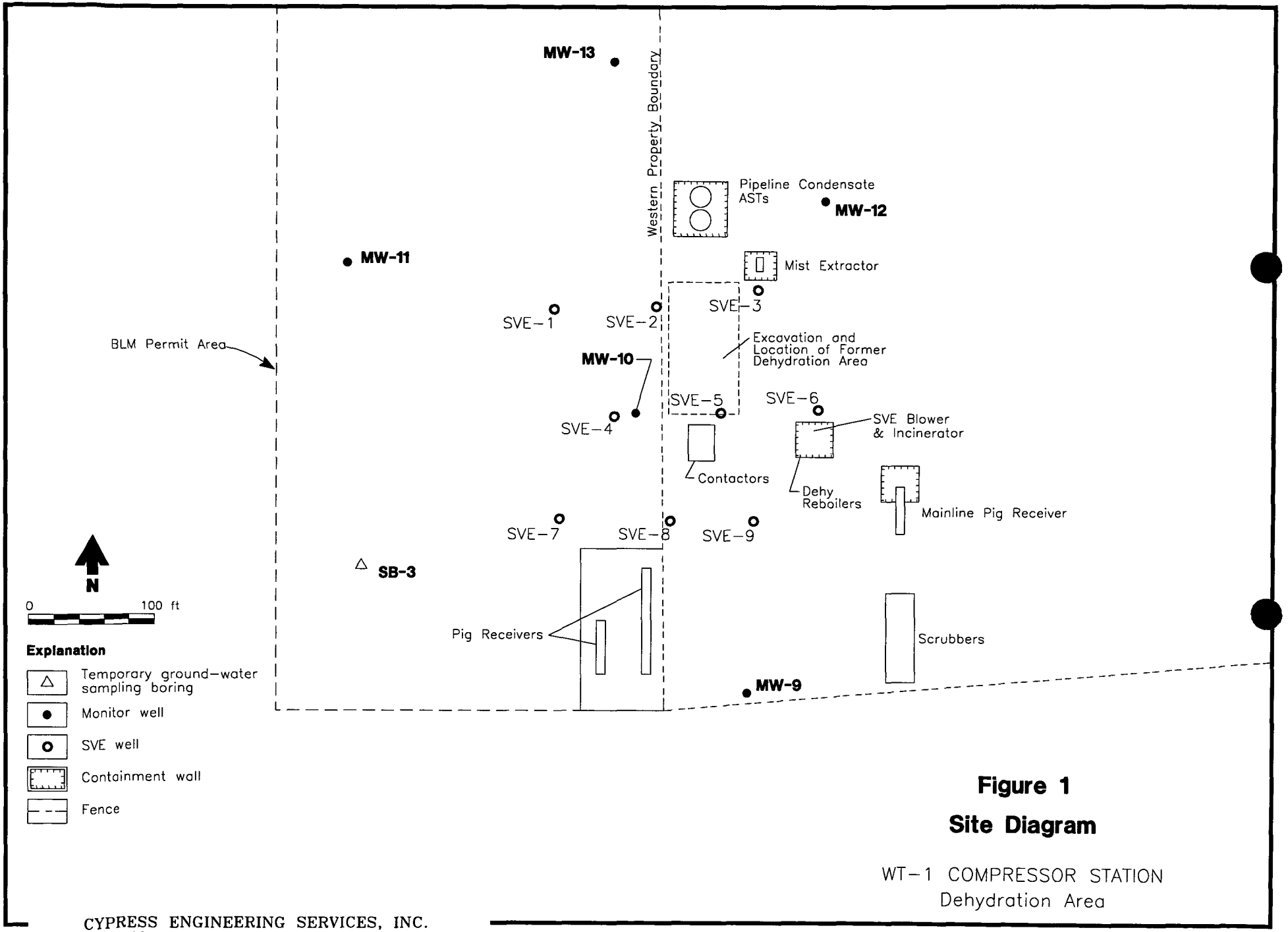


Figure 1

Site Diagram

WT-1 COMPRESSOR STATION
Dehydration Area

CYPRESS ENGINEERING SERVICES, INC.
9-96

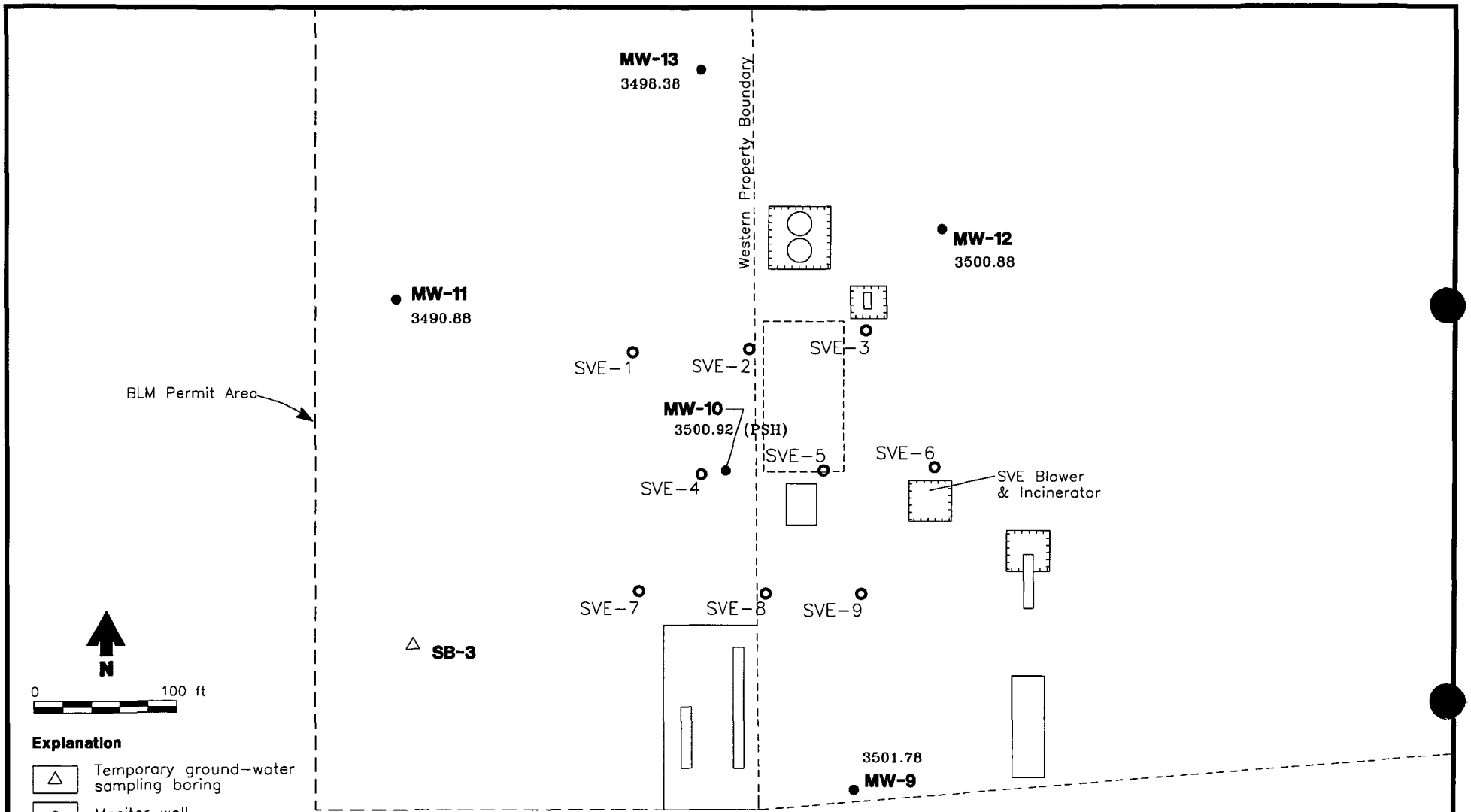


Figure 2

Ground Water Elevations, August 1996

WT-1 COMPRESSOR STATION
Dehydration Area

CYPRESS ENGINEERING SERVICES, INC.
9-96

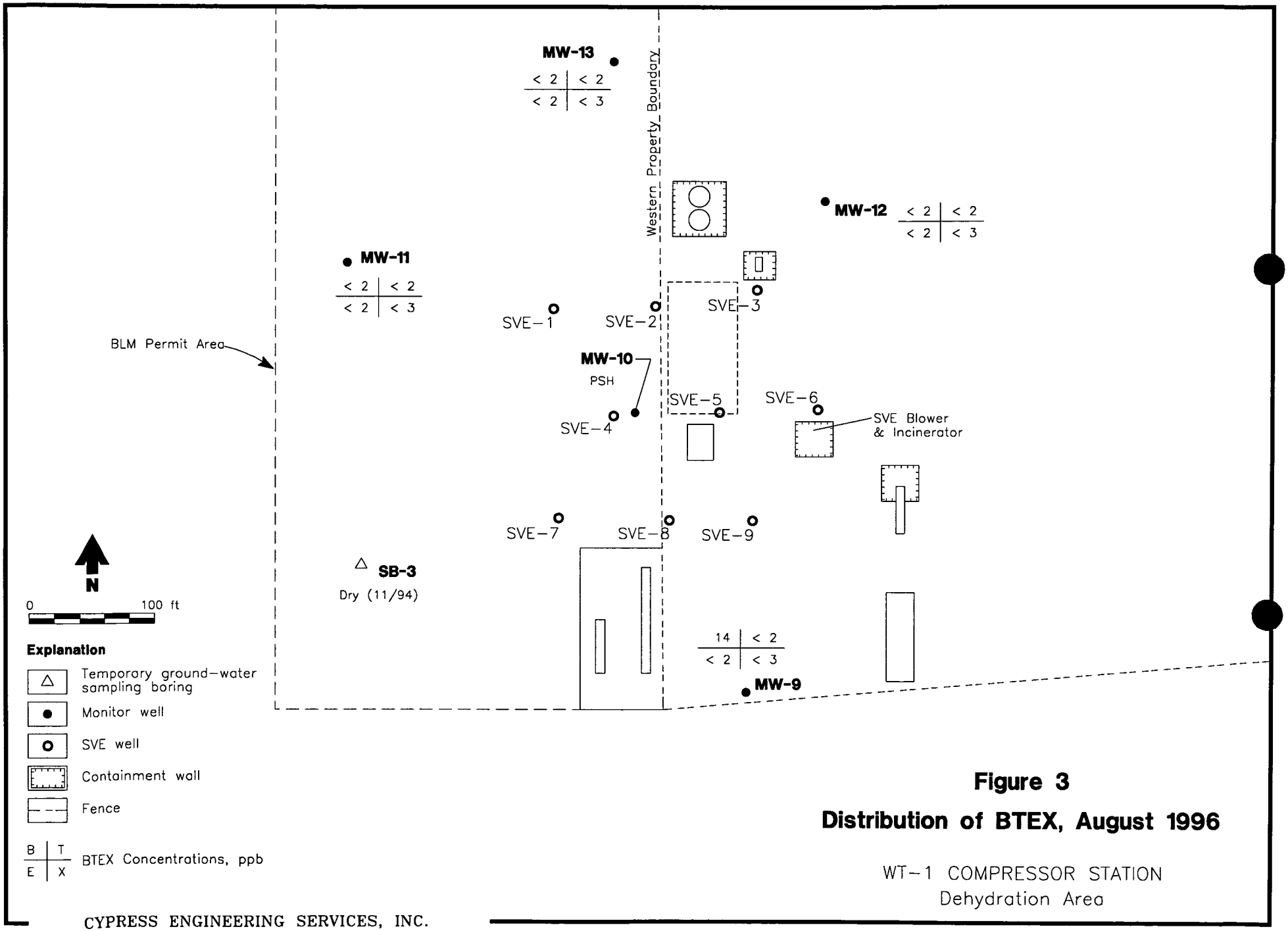


Figure 3

Distribution of BTEX, August 1996

WT-1 COMPRESSOR STATION
Dehydration Area

CYPRESS ENGINEERING SERVICES, INC.
9-96

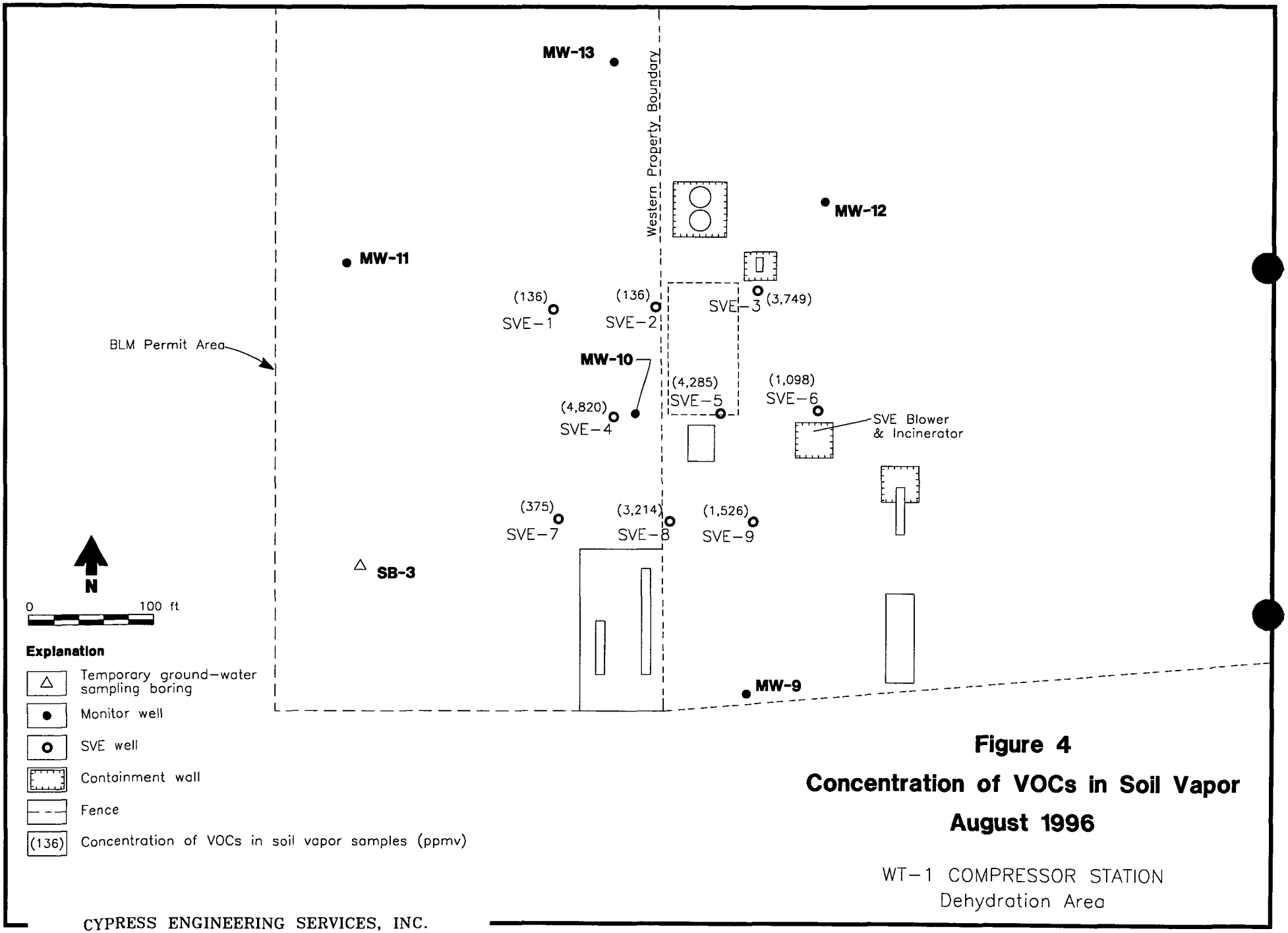


Figure 4

Concentration of VOCs in Soil Vapor

August 1996

WT-1 COMPRESSOR STATION
Dehydration Area

CYPRESS ENGINEERING SERVICES, INC.
9-96

Semi-annual Report of Ground Water Remediation Activities

Transwestern Pipeline Company
WT-1 Compressor Station Dehy Area

Attachment #1

Lab Reports for May 1996
Ground Water Sampling Events

NATIONAL ENVIRONMENTAL TESTING, INC.

Dallas Division
1548 Valwood Parkway
Suite 118
Carrollton, TX 75006
Tel: (214) 406-8100
Fax: (214) 484-2969

ANALYTICAL AND QUALITY CONTROL REPORT

George Robinson
ENRON CORPORATION
Env. Affairs, Rm 3 AC 3142
P.O. Box 1188
Houston, TX 77251

05/23/1996

NET Job Number: 96.03866

Enclosed is the Analytical and Quality Control report for the following samples submitted to the Dallas Division of NET, Inc. for analysis. Reproduction of this analytical report is permitted only in its entirety.

Sample Number	Sample Description	Date Taken	Date Received
306333	MW-9	05/14/1996	05/16/1996
306334	MW-11	05/14/1996	05/16/1996
306335	MW-12	05/14/1996	05/16/1996
306336	MW-13	05/14/1996	05/16/1996

National Environmental Testing, Inc. certifies that the analytical results contained herein apply only to the specific samples analyzed.

Holding Times: All holding times were within method criteria.

Method Blanks: All method blanks were within quality control criteria.

Instrument calibration: All calibrations were within method quality control criteria.

Analysis Comments: No Unusual Comments

Gregory K. Horton
Project Manager

ANALYTICAL REPORT

George Robinson
ENRON CORPORATION
Env. Affairs, Rm 3 AC 3142
P.O. Box 1188
Houston, TX 77251

05/23/1996
Job No.: 96.03866

Project Name: TWP WT-1

Date Received: 05/16/1996

306333 MW-9
Taken: 05/14/1996

EPA-8020 AQ (PRESERVED)		
Benzene	14	ug/L
Ethylbenzene	<2	ug/L
Toluene	<2	ug/L
Xylenes, Total	<2	ug/L
SURR: a,a,a-TFT	105	% Rec

306334 MW-11
Taken: 05/14/1996

EPA-8020 AQ (PRESERVED)		
Benzene	<2	ug/L
Ethylbenzene	<2	ug/L
Toluene	2	ug/L
Xylenes, Total	3	ug/L
SURR: a,a,a-TFT	114	% Rec

306335 MW-12
Taken: 05/14/1996

EPA-8020 AQ (PRESERVED)		
Benzene	<2	ug/L
Ethylbenzene	<2	ug/L
Toluene	<2	ug/L
Xylenes, Total	<2	ug/L
SURR: a,a,a-TFT	105	% Rec

306336 MW-13
Taken: 05/14/1996

EPA-8020 AQ (PRESERVED)		
Benzene	<2	ug/L
Ethylbenzene	<2	ug/L
Toluene	3	ug/L
Xylenes, Total	7	ug/L
SURR: a,a,a-TFT	105	% Rec

QUALITY CONTROL REPORT
Continuing Calibration Verification (CCV)

JOB NUMBER: 96.03866

PARAMETER	ANALYST	DATE ANALYZED	METHOD	CCV RESULT	CCV TRUE CONCENTRATION	% REC.	FLAG
EPA-8020 AQ (PRESERVED)			S-8020M				
Benzene	jar	05/21/1996	S-8020M	22	20	110	NA
Ethylbenzene	jar	05/21/1996	S-8020M	23	20	115	NA
Toluene	jar	05/21/1996	S-8020M	22	20	110	NA
Xylenes, Total	jar	05/21/1996	S-8020M	70	60	117	NA
EPA-8020 AQ (PRESERVED)			S-8020M				
Benzene	jar	05/22/1996	S-8020M	21	20	105	NA
Ethylbenzene	jar	05/22/1996	S-8020M	22	20	110	NA
Toluene	jar	05/22/1996	S-8020M	21	20	105	NA
Xylenes, Total	jar	05/22/1996	S-8020M	67	60	112	NA

Method References and Codes

The Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

E-100 through 493: "Methods for Chemical Analysis of Water & Wastes", U.S. EPA, 600/4-79-020, rev. 1983.

E-601 through 625: "Guidelines Establishing Test Procedures for the Analysis of Pollutants", U.S. EPA, 40CFR, Part 136, rev. 1990.

S-1000 through 9999: "Test Methods for Evaluating Solid Waste", U.S. EPA SW-846, 3rd Edition, 1986.

A: "Standard Methods for the Examination of Water and Wastewater", 16th Edition, APHA, 1985.

SM: "Standard Methods for the Examination of Water and Wastewater", 18th Edition, APHA, 1992.

D: ASTM Method

M: Method has been modified

*: Other Reference

QUALITY CONTROL REPORT
BLANKS

JOB NUMBER: 96.03866

PARAMETER	DATE ANALYZED	BLANK	UNITS	REPORTING LIMIT	FLAG
EPA-8020 AQ (PRESERVED)					
Benzene	05/21/1996	<2	ug/L	2	NA
Ethylbenzene	05/21/1996	<2	ug/L	2	NA
Toluene	05/21/1996	<2	ug/L	2	NA
Xylenes, Total	05/21/1996	<2	ug/L	2	NA
EPA-8020 AQ (PRESERVED)					
Benzene	05/22/1996	<2	ug/L	2	NA
Ethylbenzene	05/22/1996	<2	ug/L	2	NA
Toluene	05/22/1996	<2	ug/L	2	NA
Xylenes, Total	05/22/1996	<2	ug/L	2	NA

Advisory Control Limits for Blanks

Metals/Wet Chemistry/Conventionals/GC - All compounds should be less than the Reporting Limit.

GC/MS Semi-Volatiles - All compounds should be less than the Reporting Limit except for phthalates which should be less than 5 times the Reporting Limit.

GC/MS Volatiles - Toluene, Methylene chloride, Acetone and Chloroform should be less than 5 times the Reporting Limit. All other volatile compounds should be less than the Reporting Limit.

QUALITY CONTROL REPORT
Laboratory Control Sample
(LCS)

JOB NUMBER: 96.03866

PARAMETER	LCS RESULT	TRUE CONC.	LCS % REC.	FLAG
EPA-8020 AQ (PRESERVED)				
Benzene	20	20	100	
Ethylbenzene	20	20	100	
Toluene	19	20	95	
Xylenes, Total	41	60	68	

Advisory Control Limits for LCS

Inorganic Parameters - The LCS recovery should be 80-120%.

QUALITY CONTROL REPORT
Matrix Spike / Matrix Spike Duplicate
(MS / MSD)

JOB NUMBER: 96.03866

PARAMETER	SAMPLE RESULT	MS RESULT	MSD RESULT	SPIKE AMOUNT	MS % REC.	MSD % REC.	MS/MSD RPD	FLAG
EPA-8020 AQ (PRESERVED)								
Benzene	<2	21	23	20	105	115	9.1	
Ethylbenzene	<2	22	24	20	110	120	8.7	
Toluene	<2	21	23	20	105	115	9.1	
Xylenes, Total	<2	45	49	40	113	123	8.5	

Advisory Control Limits for MS/MSDs

Inorganic Parameters - The spike recovery should be 75-125% if the spike amount value is greater than or equal to one fourth of the sample result value. The RPD for the MS/MSD should be less than 20.

NOTE: Matrix Spike Samples may not be samples from this job.

NET NATIONAL ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY RECORD

COMPANY ENRON OPERATIONS CORP
ADDRESS P.O. BOX 1188 HOUSTON, TX 77251
PHONE (713) 646-7237 FAX (713) 646-7867
PROJECT NAME/LOCATION TWP WT-1
PROJECT NUMBER
PROJECT MANAGER

ENRON OPERATIONS CORP
ATTN: GEORGE ROBINSON
3AC-3142
REPORT TO: P.O. BOX 1188
INVOICE TO: HOUSTON, TX 77251
P.O. NO.
NET QUOTE NO.

SAMPLED BY
SANDY SHARP (PRINT NAME) Sandy Sharp (SIGNATURE)
(PRINT NAME) (SIGNATURE)

DATE	TIME	SAMPLE ID/DESCRIPTION	GRAB	COMP	# OF CONTAINERS TYPE	MATRIX	PRESERVED Y/N	ANALYSES: BTEX 8020	COMMENTS
5/14/96	1815	MW-9 1915 hrs	X		2/G	A	Y	X	
	1825	MW-11 1925 hrs	X		2/G	A	Y	X	
	1745	MW-12 1845 hrs	X		2/G	A	Y	X	
	1835	MW-13 1935 hrs	X		2/G	A	Y	X	

CONDITION OF SAMPLE: BOTTLES INTACT? YES / NO
FIELD FILTERED? YES / NO NA
COC SEALS PRESENT AND INTACT? YES / NO NA
VOLATILES FREE OF HEADSPACE? YES / NO NA
TEMPERATURE UPON RECEIPT: 4°

SAMPLE REMAINDER DISPOSAL: RETURN SAMPLE REMAINDER TO CLIENT VIA
I REQUEST NET TO DISPOSE OF ALL SAMPLE REMAINDERS
DATE 5/14/96

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	RELINQUISHED BY:	DATE/TIME	RECEIVED FOR NET BY:
	5/15/96 0800			5/16/96 10:00 AM	

METHOD OF SHIPMENT

REMARKS:

PT 1 - ORIGINAL - WHITE PT 2 - NET PROJECT MANAGER - YELLOW PT 3 - CUSTOMER COPY - PINK

Semi-annual Report of Ground Water Remediation Activities

Transwestern Pipeline Company
WT-1 Compressor Station Dehy Area

Attachment #2

Lab Reports for August 1996
Ground Water Sampling Events

NATIONAL ENVIRONMENTAL TESTING, INC.

Austin Division
2621 Ridgepoint Drive
Suite 130
Austin, TX 78754
Tel: (512) 928-8905
Fax: (512) 928-3208

ANALYTICAL AND QUALITY CONTROL REPORT

George Robinson
ENRON CORPORATION
Env. Affairs, Rm 3 AC 3142
P.O. Box 1188
Houston, TX 77251

08/27/1996

NET Job Number: 96.06443

Project Description: TWP WT-1

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to NET, Inc. - Dallas Division for analysis:

Sample Number	Sample Description	Date Taken	Time Taken	Date Received
316608	MW-12	08/12/1996	16:55	08/14/1996
316609	MW-9	08/12/1996	18:05	08/14/1996
316610	MW-11	08/12/1996	17:40	08/14/1996
316611	MW-13	08/12/1996	17:45	08/14/1996
316612	Trip Blank			08/14/1996

This Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Debby Skogen

Debby Skogen
Project Coordinator

ANALYTICAL RESULTS REPORT

George Robinson
ENRON CORPORATION
Env. Affairs, Rm 3 AC 3142
P.O. Box 1188
Houston, TX 77251

08/27/1996

NET Job Number: 96.06443
Sample Number: 316608

Project Description: TWP WT-1

Sample Description: MW-12

Parameter	Flag	Result	Units	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch Number	Run Batch Number	Reporting Limit
EPA-8020 AQ (PRESERVED)										
Benzene		<2	ug/L	S-8020M		08/24/1996	cjp		2581	2
Ethylbenzene		<2	ug/L	S-8020M		08/24/1996	cjp		2581	2
Toluene		<2	ug/L	S-8020M		08/24/1996	cjp		2581	2
Xylenes, Total		<3	ug/L	S-8020M		08/24/1996	cjp		2581	3
SURR: a,a,a-TFT		103	% Rec	S-8020M		08/24/1996	cjp		2581	60-125

ANALYTICAL RESULTS REPORT

George Robinson
ENRON CORPORATION
Env. Affairs, Rm 3 AC 3142
P.O. Box 1188
Houston, TX 77251

08/27/1996

NET Job Number: 96.06443
Sample Number: 316609

Project Description: TWP WT-1

Sample Description: MW-9

Parameter	Flag	Result	Units	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch Number	Run Batch Number	Reporting Limit
EPA-8020 AQ (PRESERVED)										
Benzene		14	ug/L	S-8020M		08/24/1996	cjp		2581	2
Ethylbenzene		<2	ug/L	S-8020M		08/24/1996	cjp		2581	2
Toluene		<2	ug/L	S-8020M		08/24/1996	cjp		2581	2
Xylenes, Total		<3	ug/L	S-8020M		08/24/1996	cjp		2581	3
SURR: a,a,a-TFT		95	% Rec	S-8020M		08/24/1996	cjp		2581	60-125

ANALYTICAL RESULTS REPORT

George Robinson
ENRON CORPORATION
Env. Affairs, Rm 3 AC 3142
P.O. Box 1188
Houston, TX 77251

08/27/1996

NET Job Number: 96.06443
Sample Number: 316610

Project Description: TWP WT-1

Sample Description: MW-11

Parameter	Flag	Result	Units	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch Number	Run Batch Number	Reporting Limit
EPA-8020 AQ (PRESERVED)										
Benzene		<2	ug/L	S-8020M		08/24/1996	cjp		2581	2
Ethylbenzene		<2	ug/L	S-8020M		08/24/1996	cjp		2581	2
Toluene		<2	ug/L	S-8020M		08/24/1996	cjp		2581	2
Xylenes, Total		<3	ug/L	S-8020M		08/24/1996	cjp		2581	3
SURR: a,a,a-TFT		99	% Rec	S-8020M		08/24/1996	cjp		2581	60-125

ANALYTICAL RESULTS REPORT

George Robinson
ENRON CORPORATION
Env. Affairs, Rm 3 AC 3142
P.O. Box 1188
Houston, TX 77251

08/27/1996

NET Job Number: 96.06443
Sample Number: 316611

Project Description: TWP WT-1

Sample Description: MW-13

Parameter	Flag	Result	Units	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch Number	Run Batch Number	Reporting Limit
EPA-8020 AQ (PRESERVED)										
Benzene		<2	ug/L	S-8020M		08/24/1996	cjp		2581	2
Ethylbenzene		<2	ug/L	S-8020M		08/24/1996	cjp		2581	2
Toluene		<2	ug/L	S-8020M		08/24/1996	cjp		2581	2
Xylenes, Total		<3	ug/L	S-8020M		08/24/1996	cjp		2581	3
SURR: a,a,a-TFT		99	% Rec	S-8020M		08/24/1996	cjp		2581	60-125

ANALYTICAL RESULTS REPORT

George Robinson
ENRON CORPORATION
Env. Affairs, Rm 3 AC 3142
P.O. Box 1188
Houston, TX 77251

08/27/1996

NET Job Number: 96.06443
Sample Number: 316612

Project Description: TWP WT-1

Sample Description: Trip Blank

Parameter	Flag	Result	Units	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch Number	Run Batch Number	Reporting Limit
EPA-8020 AQ (PRESERVED)										
Benzene		<2	ug/L	S-8020M		08/24/1996	cjp		2581	2
Ethylbenzene		<2	ug/L	S-8020M		08/24/1996	cjp		2581	2
Toluene		<2	ug/L	S-8020M		08/24/1996	cjp		2581	2
Xylenes, Total		<3	ug/L	S-8020M		08/24/1996	cjp		2581	3
SURR: a,a,a-TFT		83	% Rec	S-8020M		08/24/1996	cjp		2581	60-125

QUALITY CONTROL REPORT
BLANKS

George Robinson
ENRON CORPORATION
Env. Affairs, Rm 3 AC 3142
P.O. Box 1188
Houston, TX 77251

08/27/1996

NET Job Number: 96.06443

Project Description: TWP WT-1

Parameter	Flag	Blank Result	Units	Reporting Limit	Date Analyzed	Prep Batch Number	Run Batch Number
EPA-8020 AQ (PRESERVED)							
Benzene		<2	ug/L	2	08/24/1996		2581
Ethylbenzene		<2	ug/L	2	08/24/1996		2581
Toluene		<2	ug/L	2	08/24/1996		2581
Xylenes, Total		<3	ug/L	3	08/24/1996		2581

All parameters should be less than the reporting limit.

QUALITY CONTROL REPORT
CONTINUING CALIBRATION VERIFICATION STANDARD

George Robinson
ENRON CORPORATION
Env. Affairs, Rm 3 AC 3142
P.O. Box 1188
Houston, TX 77251

08/27/1996

NET Job Number: 96.06443

Project Description: TWP WT-1

Parameter	Flag	CCVS True Concentration	Units	CCVS Concentration Found	CCVS Percent Recovery	Date Analyzed	Run Batch Number
EPA-8020 AQ (PRESERVED)							
Benzene		20	ug/L	19.7	98.5	08/24/1996	2581
Ethylbenzene		20	ug/L	20.9	104.5	08/24/1996	2581
Toluene		20	ug/L	20.2	101.0	08/24/1996	2581
Xylenes, Total		60	ug/L	62.9	104.8	08/24/1996	2581

CCVS - Continuing Calibration Verification Standard

QUALITY CONTROL REPORT
LABORATORY CONTROL STANDARD

George Robinson
ENRON CORPORATION
Env. Affairs, Rm 3 AC 3142
P.O. Box 1188
Houston, TX 77251

08/27/1996

NET Job Number: 96.06443

Project Description: TWP WT-1

Analyte	Prep Batch No.	Run Batch No.	LCS True Conc	Units	LCS Conc Found	LCS % Rec.	LCS Dup Conc. Found	LCS Dup % Rec	LCS % RPD	Flag	Date Analyzed
EPA-8020 AQ (PRESERVED)											
Benzene		2581	20	ug/L	19.7	98.5	20.1	100.5	1.9		08/24/1996
Ethylbenzene		2581	20	ug/L	20.9	104.5	21.3	106.5	1.9		08/24/1996
Toluene		2581	20	ug/L	20.2	101.0	20.6	103.0	2.0		08/24/1996
Xylenes, Total		2581	60	ug/L	62.9	104.8	63.6	106.0	1.1		08/24/1996

LCS - Laboratory Control Standard

For samples with insufficient sample volume, an LCS/LCS duplicate is reported instead of an MS/MSD.

NET NATIONAL ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY RECORD

COMPANY ENRON OPERATIONS, CORP
ADDRESS P.O. BOX 1188 HOUSTON TX 77251
PHONE (713)646-7252 FAX (713)646-7861
PROJECT NAME/LOCATION TWP - WT-1
PROJECT NUMBER
PROJECT MANAGER

REPORT TO: % ENRON OPERATIONS CORP. P.O. BOX 1188 HOUSTON, TX 77251
INVOICE TO:
P.O. NO. ATTN: BAC 3142
NET QUOTE NO.

SAMPLED BY
SANDY SHARP (PRINT NAME) Sandy Sharp SIGNATURE
(PRINT NAME) SIGNATURE

DATE	TIME	SAMPLE ID/DESCRIPTION	MATRIX	GRAB	COMP	# and Type of Containers: HCl	NaOH	HNO_3	H_2SO_4	OTHER	ANALYSES: BTEX - 8020
8/12/96	1655	MW-12	A	X		3/G					X
"	1805	MW-9	"	"		"					X
"	1740	MW-11	"	"		"					X
"	1745	MW-13	"	"		"					X
		TRIP BLANK	W	"		"					X

ANALYSES

To assist us in selecting the proper method

Is this work being conducted for regulatory compliance monitoring? Yes X No ___

Is this work being conducted for regulatory enforcement action? Yes ___ No X

Which regulations apply: RCRA ___ NPDES Wastewater ___ UST X Drinking Water ___ Other X None ___

COMMENTS

CONDITION OF SAMPLE: BOTTLES INTACT? YES / NO
FIELD FILTERED? ~~YES / NO~~ NA
COC SEALS PRESENT AND INTACT? ~~YES~~ / NO
VOLATILES FREE OF HEADSPACE? YES / NO
TEMPERATURE UPON RECEIPT: 4°C
Bottles supplied by NET? YES / NO

SAMPLE REMAINDER DISPOSAL: RETURN SAMPLE REMAINDER TO CLIENT VIA ___
I REQUEST NET TO DISPOSE OF ALL SAMPLE REMAINDERS SG DATE 8/12/96

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED FOR NET BY:
Sandy Sharp	8/13/96				8/14/96	10:00	J Anderson

METHOD OF SHIPMENT

REMARKS:

PT 1 - ORIGINAL - WHITE PT 2 - NET PROJECT MANAGER - YELLOW PT 3 - CUSTOMER COPY - PINK

Semi-annual Report of Ground Water Remediation Activities

Transwestern Pipeline Company
WT-1 Compressor Station Dehy Area

Attachment #3

Lab Reports for August 1996
SVE Air Sampling Events

Hall Environmental Analysis Laboratory

Hall Environmental Analysis Laboratory
4901 Hawkins N.E.
Albuquerque, NM 87109
(505)345-3975

8/23/96

Enron Operations Corporation
P.O. Box 1188
Houston, Texas 77251

Dear Mr. George Robinson,

Enclosed are the results for the analyses that were requested. These were done according to EPA procedures or the equivalent.

Detection limits are determined by EPA methodology. No determination of compounds below these levels (denoted by the < sign) has been made.

Please don't hesitate to contact me for any additional information or clarifications.

Sincerely,

Scott Hallenbeck 8/26/96

Scott Hallenbeck, Lab Manager

Project: 9608047/ TWP-WT-1

Results for sample: SVE-1

Date collected: 8/15/96	Date received: 8/19/96
Date extracted: NA	Date analyzed: 8/19/96
Client: Enron Operations Corp.	
Project Name: TWP-WT-1	HEAL #: 9608047-1
Project Manager: George Robinson	Sampled by: Sandy Sharp
Matrix: Air	

Test: EPA 8015 Modified

Compound	Amount	Units
Gasoline Range	510	µg/L

BFB (Surrogate) Recovery = 103%
Dilution Factor = 10

Hydrocarbon Ranges

<C5	3.0 %
C5-C6	11.3 %
C6-C7	21.0%
C7-C8	28.1 %
C8-C9	22.9 %
C9-C10	10.8 %
C10-C11	2.7 %
C11-C12	0.2 %
C12-C14	0.0 %
C14+	0.0 %

Results for sample: SVE-2

Date collected: 8/15/96	Date received: 8/19/96
Date extracted: NA	Date analyzed: 8/19/96
Client: Enron Operations Corp.	
Project Name: TWP-WT-1	HEAL #: 9608047-2
Project Manager: George Robinson	Sampled by: Sandy Sharp
Matrix: Air	

Test: EPA 8015 Modified

Compound	Amount	Units
Gasoline Range	510	µg/L

BFB (Surrogate) Recovery = 114%
Dilution Factor = 10

Hydrocarbon Ranges

<C5	0.9 %
C5-C6	6.0 %
C6-C7	20.9%
C7-C8	33.7 %
C8-C9	25.3 %
C9-C10	10.3 %
C10-C11	2.4 %
C11-C12	0.2 %
C12-C14	0.0 %
C14+	0.3 %

Results for sample: SVE-3

Date collected: 8/15/96	Date received: 8/19/96
Date extracted: NA	Date analyzed: 8/19/96
Client: Enron Operations Corp.	
Project Name: TWP-WT-1	HEAL #: 9608047-3
Project Manager: George Robinson	Sampled by: Sandy Sharp
Matrix: Air	

Test: EPA 8015 Modified

Compound	Amount	Units
Gasoline Range	14,000	µg/L

BFB (Surrogate) Recovery = 105%
Dilution Factor = 100

Hydrocarbon Ranges

<C5	0.7 %
C5-C6	16.9 %
C6-C7	40.6 %
C7-C8	32.0 %
C8-C9	9.1 %
C9-C10	0.7 %
C10-C11	0.0 %
C11-C12	0.0 %
C12-C14	0.0 %
C14+	0.0 %

Results for sample: SVE-4

Date collected: 8/15/96	Date received: 8/19/96
Date extracted: NA	Date analyzed: 8/19/96
Client: Enron Operations Corp.	
Project Name: TWP-WT-1	HEAL #: 9608047-4
Project Manager: George Robinson	Sampled by: Sandy Sharp
Matrix: Air	

Test: EPA 8015 Modified

Compound	Amount	Units
Gasoline Range	18,000	µg/L

BFB (Surrogate) Recovery = 102%
Dilution Factor = 100

Hydrocarbon Ranges

<C5	0.5 %
C5-C6	12.6 %
C6-C7	36.6 %
C7-C8	34.6 %
C8-C9	14.3 %
C9-C10	1.3 %
C10-C11	0.1 %
C11-C12	0.0 %
C12-C14	0.0 %
C14+	0.0 %

Results for sample: SVE-5

Date collected: 8/15/96	Date received: 8/19/96
Date extracted: NA	Date analyzed: 8/19/96
Client: Enron Operations Corp.	
Project Name: TWP-WT-1	HEAL #: 9608047-5
Project Manager: George Robinson	Sampled by: Sandy Sharp
Matrix: Air	

Test: EPA 8015 Modified

Compound	Amount	Units
Gasoline Range	16,000	µg/L

BFB (Surrogate) Recovery = 105%
Dilution Factor = 100

Hydrocarbon Ranges

<C5	0.4 %
C5-C6	16.7 %
C6-C7	36.1 %
C7-C8	30.6 %
C8-C9	13.8 %
C9-C10	2.3 %
C10-C11	0.1 %
C11-C12	0.0 %
C12-C14	0.0 %
C14+	0.0 %

Results for sample: SVE-6

Date collected: 8/15/96	Date received: 8/19/96
Date extracted: NA	Date analyzed: 8/19/96
Client: Enron Operations Corp.	
Project Name: TWP-WT-1	HEAL #: 9608047-6
Project Manager: George Robinson	Sampled by: Sandy Sharp
Matrix: Air	

Test: EPA 8015 Modified

Compound	Amount	Units
Gasoline Range	4,100	µg/L

BFB (Surrogate) Recovery = 103%
Dilution Factor = 100

Hydrocarbon Ranges

<C5	0.0 %
C5-C6	13.2 %
C6-C7	25.5 %
C7-C8	23.2 %
C8-C9	29.4 %
C9-C10	8.5 %
C10-C11	0.2 %
C11-C12	0.0 %
C12-C14	0.0 %
C14+	0.0 %

Results for sample: SVE-7

Date collected: 8/15/96	Date received: 8/19/96
Date extracted: NA	Date analyzed: 8/19/96
Client: Enron Operations Corp.	
Project Name: TWP-WT-1	HEAL #: 9608047-7
Project Manager: George Robinson	Sampled by: Sandy Sharp
Matrix: Air	

Test: EPA 8015 Modified

Compound	Amount	Units
Gasoline Range	1,400	µg/L

BFB (Surrogate) Recovery = 109%
Dilution Factor = 25

Hydrocarbon Ranges

<C5	0.5 %
C5-C6	2.4 %
C6-C7	13.6 %
C7-C8	33.0 %
C8-C9	35.0 %
C9-C10	14.8 %
C10-C11	0.5 %
C11-C12	0.0 %
C12-C14	0.2 %
C14+	0.0 %

Results for sample: SVE-8

Date collected: 8/15/96	Date received: 8/19/96
Date extracted: NA	Date analyzed: 8/19/96
Client: Enron Operations Corp.	
Project Name: TWP-WT-1	HEAL #: 9608047-8
Project Manager: George Robinson	Sampled by: Sandy Sharp
Matrix: Air	

Test: EPA 8015 Modified

Compound	Amount	Units
Gasoline Range	12,000	µg/L

BFB (Surrogate) Recovery = 110%
Dilution Factor = 100

Hydrocarbon Ranges

<C5	0.3 %
C5-C6	23.9 %
C6-C7	39.1 %
C7-C8	25.7 %
C8-C9	8.9 %
C9-C10	1.9 %
C10-C11	0.2 %
C11-C12	0.0 %
C12-C14	0.0 %
C14+	0.0 %

Results for sample: SVE-9

Date collected: 8/15/96	Date received: 8/19/96
Date extracted: NA	Date analyzed: 8/19/96
Client: Enron Operations Corp.	
Project Name: TWP-WT-1	HEAL #: 9608047-9
Project Manager: George Robinson	Sampled by: Sandy Sharp
Matrix: Air	

Test: EPA 8015 Modified

Compound	Amount	Units
Gasoline Range	5,700	µg/L

BFB (Surrogate) Recovery = 111%
Dilution Factor = 100

Hydrocarbon Ranges

<C5	6.7 %
C5-C6	18.2 %
C6-C7	24.3 %
C7-C8	31.0 %
C8-C9	15.0 %
C9-C10	4.2 %
C10-C11	0.2 %
C11-C12	0.1 %
C12-C14	0.1 %
C14+	0.1 %

Results for QC: Reagent Blank

Date extracted: NA	Date analyzed: 8/19/96
Client: Enron Operations Corp.	
Project Name: TWP-WT-1	HEAL #: RB 8/19
Project Manager: George Robinson	Sampled by: NA
Matrix: Aqueous	

Test: EPA 8015 Modified

Compound	Amount	Units
Gasoline Range	<0.05	PPM (mg/L)

BFB (Surrogate) Recovery = 102 %
Dilution Factor = 1

Results for QC:
Blank Spike / Blank Spike Dup

Date extracted: NA	Date analyzed: 8/19/96
Client: Enron Operations Corp.	
Project Name: TWP-WT-1	HEAL #: BS/BSD 8/19
Project Manager: George Robinson	
Matrix: Aqueous	Units: PPM (mg/L)

Test: EPA 8015 Modified

Compound	Sample Result	Amount Added	Blank Spike	BS %	BS Dup	BSD %	RPD
Gasoline	<0.05	0.50	0.49	98	0.48	96	2

NATIONAL ENVIRONMENTAL TESTING, INC.

HALL ENVIRONMENTAL

CHAIN OF CUSTODY RECORD

COMPANY ENRON OPERATIONS CORP

ADDRESS P.O. BOX 1188 HOUSTON TX 77251

PHONE (713) 646-7327 FAX (713) 646-7867

PROJECT NAME/LOCATION TWP → WT-1

PROJECT NUMBER

PROJECT MANAGER

GEORGE KOBINSON C/O ENRON OPERATIONS CORP.

REPORT TO: P.O. BOX 1188

INVOICE TO: HOUSTON TX 77251

P.O. NO. AFN: 3AC3142

NET QUOTE NO.

SAMPLED BY

SANDY SHARP (PRINT NAME) SIGNATURE

(PRINT NAME) SIGNATURE

DATE	TIME	SAMPLE ID/DESCRIPTION	MATRIX	GRAB	COMP	# and Type of Containers: HCl	NaOH	HNO_3	H_2SO_4	OTHER	ANALYSES
8/15	1140	SVE-1 9608047-1	AIR	X						1X	*
	1150	SVE-2 -2									
	1200	SVE-3 -3									
	1210	SVE-4 -4									
	1230	SVE-5 -5									
	1245	SVE-6 -6									
	1300	SVE-7 -7									
	1315	SVE-8 -8									
	1330	SVE-9 -9									

To assist us in selecting the proper method

Is this work being conducted for regulatory compliance monitoring? Yes ___ No ___

Is this work being conducted for regulatory enforcement action? Yes ___ No ___

Which regulations apply: RCRA ___ NPDES Wastewater ___ UST ___ Drinking Water ___ Other ___ None ___

COMMENTS

* ANALYTICAL TO BE DETERMINED BY GEORGE ROBINSON OVER PHONE

CONDITION OF SAMPLE: BOTTLES INTACT? YES / NO FIELD FILTERED? YES / NO

COC SEALS PRESENT AND INTACT? YES / NO VOLATILES FREE OF HEADSPACE? YES / NO

TEMPERATURE UPON RECEIPT: ___ Bottles supplied by NET? YES / NO

SAMPLE REMAINDER DISPOSAL: RETURN SAMPLE REMAINDER TO CLIENT VIA ___

I REQUEST NET TO DISPOSE OF ALL SAMPLE REMAINDERS ___ DATE ___

RELINQUISHED BY	DATE	TIME	RECEIVED BY	RELINQUISHED BY:	DATE	TIME	RECEIVED FOR NET BY:
	8/15/96	10:30	8/17				

METHOD OF SHIPMENT

REMARKS:

PT 1 - ORIGINAL - WHITE PT 2 - NET PROJECT MANAGER - YELLOW PT 3 - CUSTOMER COPY - PINK

Semi-annual Report of Groundwater Remediation Activities

Transwestern Pipeline Company
WT-1 Compressor Station Dehy Area
Lea County, New Mexico

Submitted to:
New Mexico Oil Conservation Division

April 30, 1996

Prepared For:
Transwestern Pipeline Company
6381 North Main Street
Roswell, NM 88201

Prepared by:
Cypress Engineering Services, Inc.
16300 Katy Freeway, Suite 210
Houston, Texas 77094-1610

Semi-annual Report of Groundwater Remediation Activities

Transwestern Pipeline Company

WT-1 Compressor Station Dehy Area

I. Groundwater Assessment & Monitoring Activities

4th Quarter 1995 and 1st Quarter 1996 Groundwater Sampling Events

Transwestern has completed two quarterly sampling events since obtaining approval from the NMOCD for Transwestern's proposed remediation plan. The 4th quarter 1995 sampling event was completed on November 21, 1995 and the 1st quarter 1996 sampling event was completed on February 22, 1996.

Prior to sampling, the depth to water, and the depth to hydrocarbon where phase separated hydrocarbon (PSH) was present, was determined for each monitor well. Table 2 presents a summary of groundwater and PSH surface elevation information. A groundwater surface elevation map is included as Figure 2.

Groundwater samples were collected from the four monitor wells which did not contain PSH. Groundwater samples were delivered to a lab for analysis by EPA Method 8020 for benzene, toluene, ethylbenzene, and xylenes (BTEX). Table 3 presents a summary of BTEX results. A BTEX distribution map for the February, 1996, sampling event is included as Figure 3.

There were 9 gallons of purge water generated during the 4th quarter 1995 sampling event and 9.5 gallons during the 1st quarter 1996 sampling event. All purge water has been contained in approved DOT drums on the site. Based on the analytical results indicated in Table 3, the purge water can be expected to contain BTEX levels below the NMWQCC Standards.

Results/Conclusions from Groundwater Sampling Events

Occurrence and Direction of Groundwater Flow

Water table elevations measured during the 1st quarter 1996 sampling event are indicated on Figure 2, attached. Consistent with previous sampling events, there is very little shallow ground water present just west of the hydrocarbon release area as indicated by the low level of ground water measured in monitor well MW-11.

The apparent direction of groundwater flow is toward to north and is consistent with water table elevations previously measured at this site.

Lateral Extent of Phase Separated Hydrocarbon

The lateral extent of PSH is currently defined by the occurrence of PSH at the water table in monitor well MW-10 and the absence of PSH in all other monitor wells and prior temporary groundwater sample points. The thickness of accumulated PSH in the monitor well MW-10 well casing was measured at 1.9 ft. in November 1995 and 1.67 ft. in February 1996. The recently installed SVE wells have not yet been checked for the presence of PSH. Based on the information currently available, the volume and lateral extent of PSH in the area appears to be relatively small.

At this time, the presence of PSH does not appear to require a modification of the existing remediation plan due to the relatively limited lateral extent of PSH and the existing plan for soil vapor extraction from the nine SVE wells. However, during the next quarterly groundwater sampling event, each SVE well will be checked for the presence of PSH in order to confirm that the lateral extent is in fact very limited.

Condition of Affected Groundwater

The condition of affected groundwater at previously existing monitor wells has not changed significantly from previous sampling events as evidenced by the information presented in Table 3. The three monitor wells downgradient of the release area continue to yield groundwater samples that are non-detect for BTEX constituents.

The monitor well located about 200 feet south of the release area continues to yield samples that are near non-detect for BTEX constituents with a maximum detected concentration for benzene of 13 ppb.

Downgradient Extent of Affected Groundwater

As evidenced by the sample results for downgradient monitor wells MW-11, MW-12, and MW-13, the downgradient extent of affected groundwater appears to have been established.

Planned Changes to the Groundwater Monitoring Program

Disposal of Monitor Well Purge Water

Due to the small volume of purge water expected to be generated during any sampling event (15 gallons maximum from four monitor wells) and BTEX levels expected to be below the NMWQCC Standards, TW will dispose of all purge water currently stored on-site and all future volumes of purge water generated during sampling activities by placing the water inside the secondary containment of the on-site condensate storage tank so that the water may evaporate.

II. Summary of Remediation Activities

Remediation Activities Completed During 1995

The following remediation activities were completed during 1995: 1) Transwestern prepared and obtained approval from the NMOCD for a groundwater remediation plan, 2) Transwestern prepared and submitted an air permit application to the NMED for emissions from the proposed remediation system, and 3) Transwestern installed nine SVE wells in accordance with the remediation plan.

Installation of Nine Soil Vapor Extraction (SVE) Wells

In accordance with the remediation plan submitted to the NMOCD, during July 1995, nine SVE wells were installed in the immediate vicinity of the petroleum hydrocarbon release area. The location of the nine SVE wells is indicated on an attached figure, Figure 1, as SVE-1, SVE-2, SVE-3, SVE-4, SVE-5, SVE-6, SVE-7, SVE-8, and SVE-9. A summary of completion details for each of the nine SVE wells is included in Table 1. A copy of the field generated soil boring logs is included as Attachment #3.

The primary objective of the nine SVE wells is the removal of residual petroleum hydrocarbons from the subsurface in the immediate vicinity of the former release area. A secondary objective of these wells is to provide for additional groundwater monitor points subsequent to the removal of residual hydrocarbons.

Current Status of Remediation Activities

Remediation activities, other than groundwater monitoring, are currently on hold pending approval of Transwestern's permit application for air emissions from the SVE system. Transwestern has been informed that, due to a backlog of work at the NMED Air Pollution Control Bureau, the permit application is not likely to be processed until the May/June 1996 timeframe. The remediation system will be placed in service as soon as practicable after obtaining the air permit.

Remediation Activities Planned for 1996

Transwestern anticipates implementation and startup of the SVE remediation system in late May or June, 1996. During preparation of the initial remediation plan, Transwestern anticipated that the SVE system would be operated for approximately eighteen months in order to achieve its objective.

Semi-annual Report of Groundwater Remediation Activities

Transwestern Pipeline Company
WT-1 Compressor Station Dehy Area

Figures

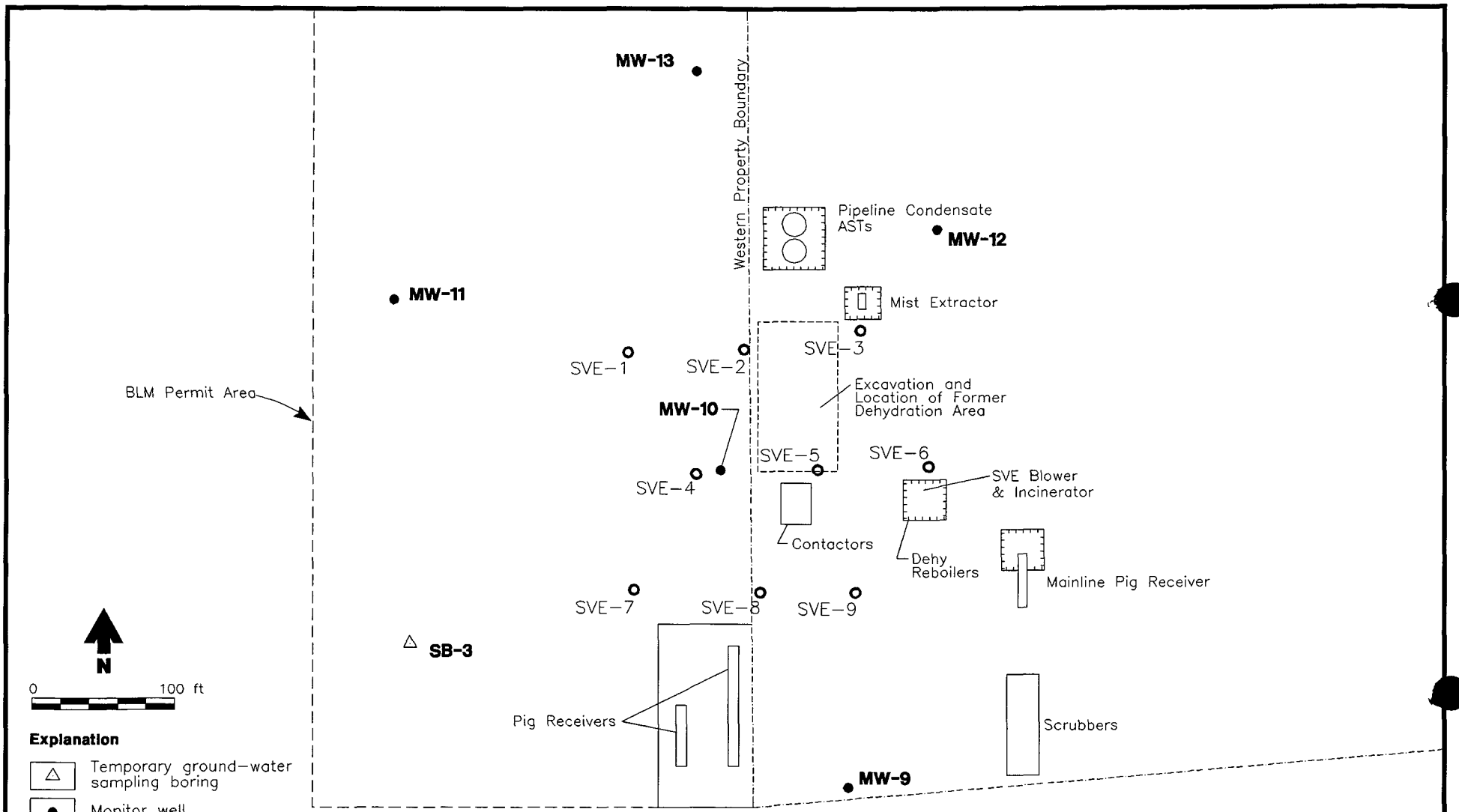


Figure 1

Site Diagram

WT-1 COMPRESSOR STATION
Dehydration Area

CYPRESS ENGINEERING SERVICES, INC.
4-96

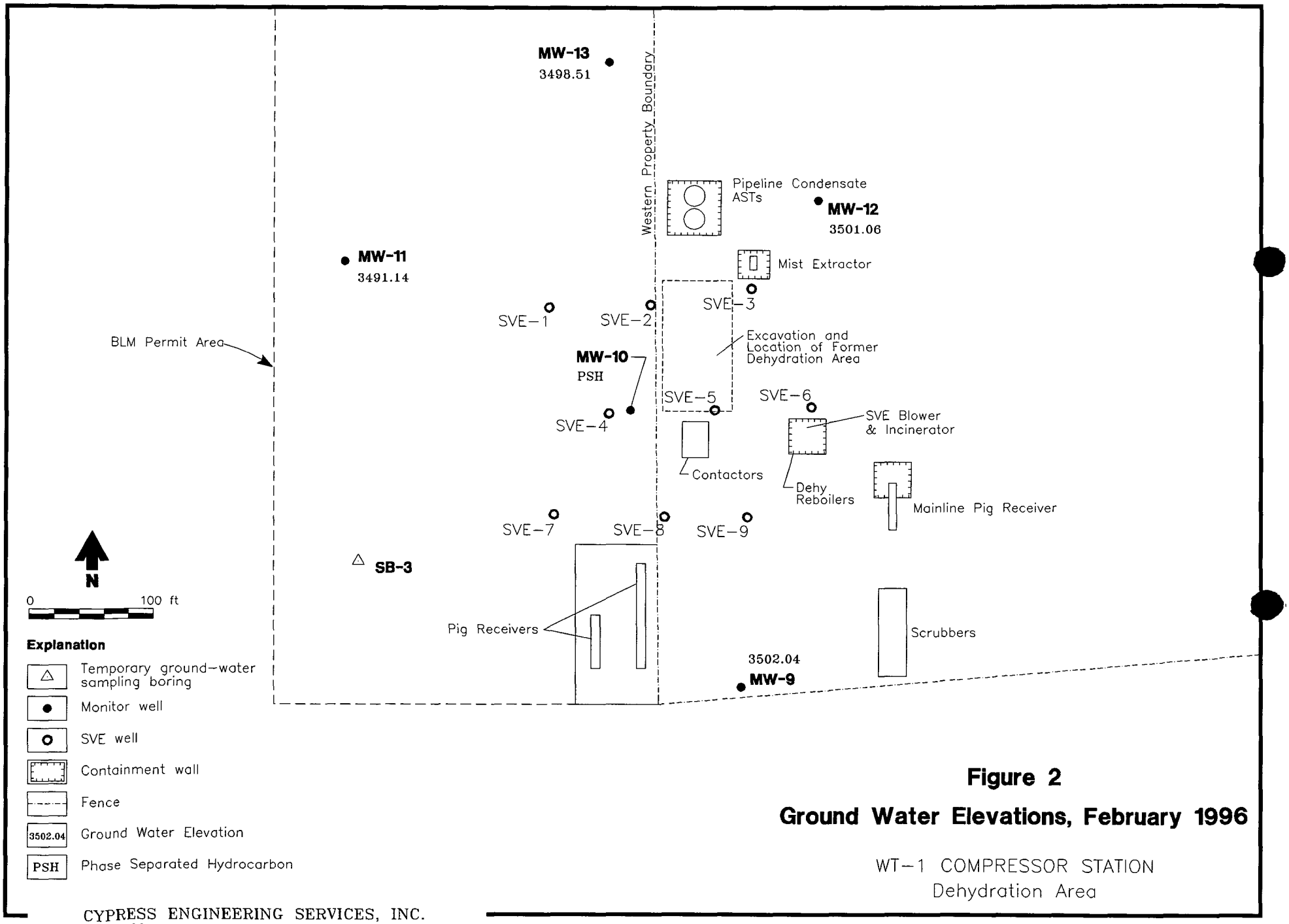


Figure 2

Ground Water Elevations, February 1996

WT-1 COMPRESSOR STATION
Dehydration Area

CYPRESS ENGINEERING SERVICES, INC.
4-96

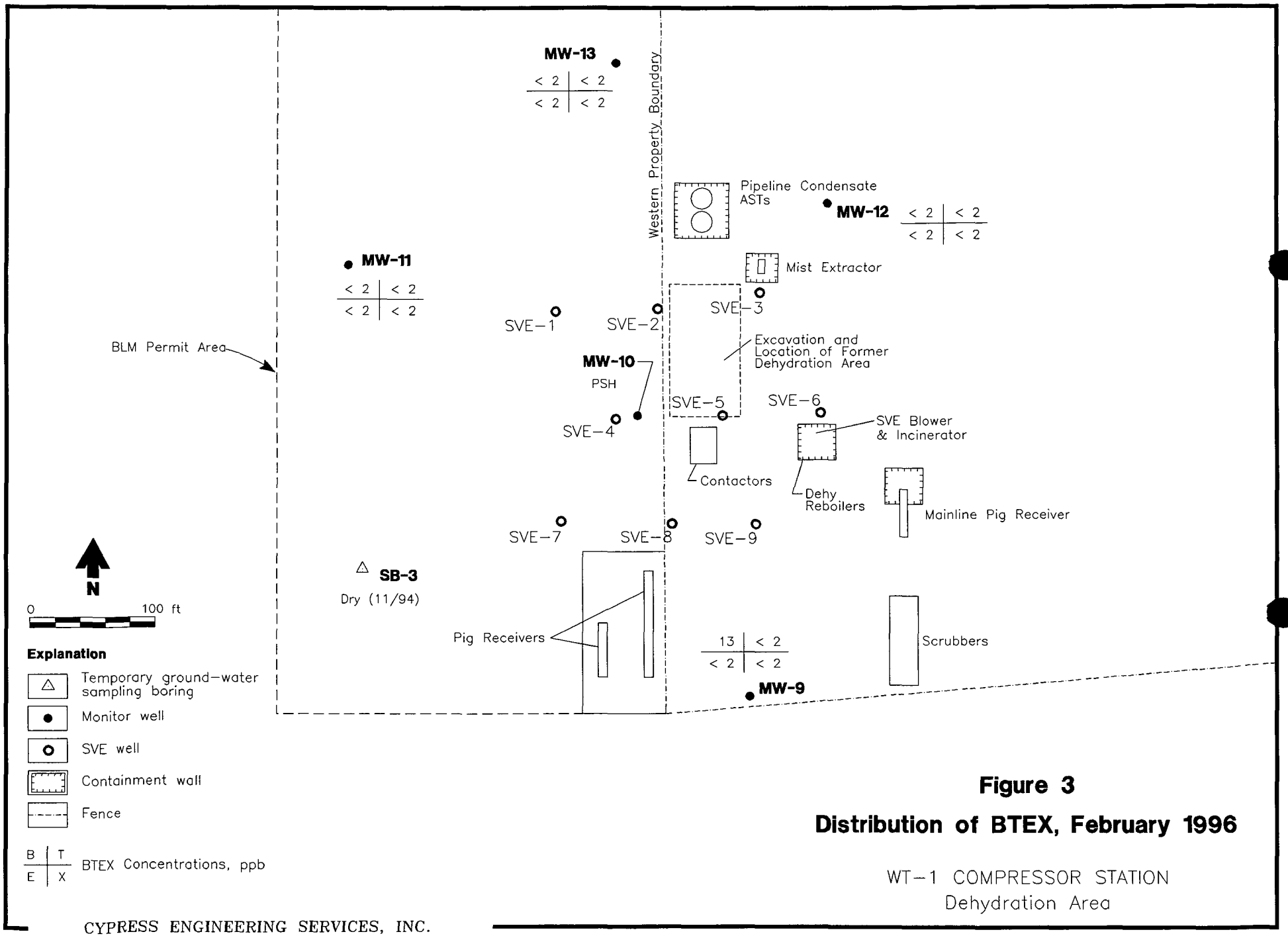


Figure 3

Distribution of BTEX, February 1996

WT-1 COMPRESSOR STATION
Dehydration Area

CYPRESS ENGINEERING SERVICES, INC.
4-96

Semi-annual Report of Groundwater Remediation Activities

Transwestern Pipeline Company
WT-1 Compressor Station Dehy Area

Tables

Table 1. Summary of SVE Completions
TW WT-1 Compressor Station Dehy Area

SVE Well	SVE-1	SVE-2	SVE-3	SVE-4	SVE-5	SVE-6	SVE-7	SVE-8	SVE-9
Completion Date	10/95	10/95	10/95	10/95	10/95	10/95	10/95	10/95	10/95
Hole size	6.125"	6.125"	6.125"	6.125"	6.125"	6.125"	6.125"	6.125"	6.125"
Completion Material	2" PVC	2" PVC	2" PVC	2" PVC	2" PVC	2" PVC	2" PVC	2" PVC	2" PVC
Total Depth (bgs)	55'	53'	55'	55'	52.7'	55'	58'	56.5'	56.2'
Screen Length (2" sch 40 - 0.010 slot)	20'	20'	20'	25'	20'	20'	25'	20'	20'
Top of Screen (bgs)	35'	33'	35'	30'	32.7'	35'	33'	36.5'	36.2'
Top of Sand (bgs)	32.9'	30.8'	32.6'	27.9'	30'	32.8'	31.8'	34.8'	34.2'
Top of Bentonite Plug (bgs)	30.9'	28'	30.5'	25.5'	28'	30.5'	29'	32.6'	31'
Top of Grout (bgs)	2'	2'	2'	2'	2'	2'	2'	2'	2'

NOTE:
bgs - below ground surface

Table 2. Summary of Ground Water Surface Elevations
TW WT-1 Compressor Station Dehy Area

Well	Top of Casing (ft)	Sampling Date 11/94			Sampling Date 11/21/95			Sampling Date 2/22/96		
		Depth to Hydrocarbon (HC) (ft)	Depth to Water or HC/Water Interface (ft)	Groundwater Surface Elevation (ft)	Depth to Hydrocarbon (HC) (ft)	Depth to Water or HC/Water Interface (ft)	Groundwater Surface Elevation (ft)	Depth to Hydrocarbon (HC) (ft)	Depth to Water or HC/Water Interface (ft)	Groundwater Surface Elevation (ft)
MW-9	3557.31	(a)	55.14	3502.17	(a)	55.67	3501.64	(a)	55.27	3502.04
MW-10	3553.45	(b)	52.63	3500.82	52.31	54.21	3500.76	52.08	53.75	3501.04
MW-11	3547.84	(a)	Dry	NA	(a)	58.10	3489.74	(a)	56.70	3491.14
MW-12	3551.19	(a)	49.31	3501.88	(a)	50.49	3500.70	(a)	50.13	3501.06
MW-13	3547.78	(a)	49.70	3498.08	(a)	49.55	3498.23	(a)	49.27	3498.51

NOTES:
(a) Not applicable since no measurable thickness of hydrocarbon is present
(b) Information not available
(c) Corrections to ground water surface elevation for presence of hydrocarbon is calculated assuming a specific gravity of 0.8

Table 3. Summary of Ground Water Analyses
TW WT-1 Compressor Station Dehy Area

Well	Sampling Date	BTEX Concentration - (ug/L) Benzene	Toluene	Ethylbenzene	Total Xylenes
NMWQCC Standard		10	750	750	620
MW-9	11/94	**12**	<0.5	<0.5	<0.5
	11/95	4	3	<2	11
	2/96	**13**	<2	<2	<2
MW-10	11/94	**9000**[b]	**16000**[b]	620[b]	**8500**[b]
	11/95	(a)	(a)	(a)	(a)
	2/96	(a)	(a)	(a)	(a)
MW-11	11/94	(c)	(c)	(c)	(c)
	11/95	<2	<2	<2	<2
	2/96	<2	<2	<2	<2
MW-12	11/94	<0.5	1.9	<0.5	3.1
	11/95	<2	<2	<2	<2
	2/96	<2	<2	<2	<2
MW-13	11/94	<0.5	<0.5	<0.5	<0.5
	11/95	<2	<2	<2	<2
	2/96	<2	<2	<2	<2

NOTES:
(a) Phase separated hydrocarbon present
(b) Sample analyzed at 25x dilution
(c) Dry Wellbore

Semi-annual Report of Groundwater Remediation Activities

Transwestern Pipeline Company
WT-1 Compressor Station Dehy Area

Attachment #1

Lab Reports for December 1995
Groundwater Sampling Events

NATIONAL ENVIRONMENTAL TESTING, INC.

Dallas Division
1548 Valwood Parkway
Suite 118
Carrollton, TX 75006
Tel: (214) 406-8100
Fax: (214) 484-2969

ANALYTICAL AND QUALITY CONTROL REPORT

George Robinson
ENRON CORPORATION
Env. Affairs, Rm 3 AC 3142
P.O. Box 1188
Houston, TX 77251

11/30/1995

NET Job Number: 95.08843

Enclosed is the Analytical and Quality Control report for the following samples submitted to the Dallas Division of NET, Inc. for analysis. Reproduction of this analytical report is permitted only in its entirety.

Sample Number	Sample Description	Date Taken	Date Received
285430	MW-13	11/21/1995	11/27/1995
285431	MW-11	11/21/1995	11/27/1995
285432	MW-9	11/21/1995	11/27/1995
285433	MW-12	11/21/1995	11/27/1995

National Environmental Testing, Inc. certifies that the analytical results contained herein apply only to the specific samples analyzed.

Holding Times: All holding times were within method criteria.

Method Blanks: All method blanks were within quality control criteria.

Instrument calibration: All calibrations were within method quality control criteria.

Analysis Comments: No Unusual Comments

Gregory K. Horton
Project Manager

OCEAN GROUP

ANALYTICAL REPORT

George Robinson
ENRON CORPORATION
Env. Affairs, Rm 3 AC 3142
P.O. Box 1188
Houston, TX 77251

11/30/1995
Job No.: 95.08843

Project Name: WTI STATION

Date Received: 11/27/1995

285430 MW-13
Taken: 11/21/1995 14:24

EPA 8020-AQ (Preserved)		
Benzene	<2	ug/L
Ethylbenzene	<2	ug/L
Toluene	<2	ug/L
Xylenes, Total	<2	ug/L
SURR: a,a,a-TFT	90	% Rec

285431 MW-11
Taken: 11/21/1995 14:45

EPA 8020-AQ (Preserved)		
Benzene	<2	ug/L
Ethylbenzene	<2	ug/L
Toluene	<2	ug/L
Xylenes, Total	<2	ug/L
SURR: a,a,a-TFT	90	% Rec

285432 MW-9
Taken: 11/21/1995 15:40

EPA 8020-AQ (Preserved)		
Benzene	4	ug/L
Ethylbenzene	<2	ug/L
Toluene	3	ug/L
Xylenes, Total	11	ug/L
SURR: a,a,a-TFT	88	% Rec

285433 MW-12
Taken: 11/21/1995 16:30

EPA 8020-AQ (Preserved)		
Benzene	<2	ug/L
Ethylbenzene	<2	ug/L
Toluene	<2	ug/L
Xylenes, Total	<2	ug/L
SURR: a,a,a-TFT	94	% Rec

QUALITY CONTROL REPORT
Continuing Calibration Verification (CCV)

JOB NUMBER: 95.08843

PARAMETER	ANALYST	DATE ANALYZED	METHOD	CCV RESULT	CCV TRUE CONCENTRATION	% REC.	FLAG
EPA 8020-AQ (Preserved)			S-8020M				
Benzene	tcc	11/28/1995	S-8020M	21	20	105	NA
Ethylbenzene	tcc	11/28/1995	S-8020M	20	20	100	NA
Toluene	tcc	11/28/1995	S-8020M	22	20	110	NA
Xylenes, Total	tcc	11/28/1995	S-8020M	67	60	112	NA
EPA 8020-AQ (Preserved)			S-8020M				
Benzene	tcc	11/30/1995	S-8020M	19	20	95	NA
Ethylbenzene	tcc	11/30/1995	S-8020M	19	20	95	NA
Toluene	tcc	11/30/1995	S-8020M	20	20	100	NA
Xylenes, Total	tcc	11/30/1995	S-8020M	64	60	107	NA

Method References and Codes

The Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

E-100 through 493: "Methods for Chemical Analysis of Water & Wastes", U.S. EPA, 600/4-79-020, rev. 1983.

E-601 through 625: "Guidelines Establishing Test Procedures for the Analysis of Pollutants", U.S. EPA, 40CFR, Part 136, rev. 1990.

S-1000 through 9999: "Test Methods for Evaluating Solid Waste", U.S. EPA SW-846, 3rd Edition, 1986.

A: "Standard Methods for the Examination of Water and Wastewater", 16th Edition, APHA, 1985.

SM: "Standard Methods for the Examination of Water and Wastewater", 18th Edition, APHA, 1992.

D: ASTM Method

M: Method has been modified

*: Other Reference

QUALITY CONTROL REPORT
BLANKS

JOB NUMBER: 95.08843

PARAMETER	DATE ANALYZED	BLANK	UNITS	REPORTING LIMIT	FLAG
EPA 8020-AQ (Preserved)					
Benzene	11/28/1995	<2	ug/L	2	NA
Ethylbenzene	11/28/1995	<2	ug/L	2	NA
Toluene	11/28/1995	<2	ug/L	2	NA
Xylenes, Total	11/28/1995	<2	ug/L	2	NA
EPA 8020-AQ (Preserved)					
Benzene	11/30/1995	<2	ug/L	2	NA
Ethylbenzene	11/30/1995	<2	ug/L	2	NA
Toluene	11/30/1995	<2	ug/L	2	NA
Xylenes, Total	11/30/1995	<2	ug/L	2	NA

Advisory Control Limits for Blanks

Metals/Wet Chemistry/Conventionals/GC - All compounds should be less than the Reporting Limit.

GC/MS Semi-Volatiles - All compounds should be less than the Reporting Limit except for phthalates which should be less than 5 times the Reporting Limit.

GC/MS Volatiles - Toluene, Methylene chloride, Acetone and Chloroform should be less than 5 times the Reporting Limit. All other volatile compounds should be less than the Reporting Limit.

QUALITY CONTROL REPORT
Laboratory Control Sample
(LCS)

JOB NUMBER: 95.08843

PARAMETER	LCS RESULT	TRUE CONC.	LCS % REC.	FLAG
EPA 8020-AQ (Preserved)				
Benzene	21	20	105	
Ethylbenzene	20	20	100	
Toluene	22	20	110	
Xylenes, Total	65	60	108	

Advisory Control Limits for LCS

Inorganic Parameters - The LCS recovery should be 80-120%.

QUALITY CONTROL REPORT
Matrix Spike / Matrix Spike Duplicate
(MS / MSD)

JOB NUMBER: 95.08843

PARAMETER	SAMPLE RESULT	MS RESULT	MSD RESULT	SPIKE AMOUNT	MS % REC.	MSD % REC.	MS/MSD RPD	FLAG
EPA 8020-AQ (Preserved)								
Benzene	6	25	29	20	95	115	19	
Ethylbenzene	<2	18	21	20	90	105	15	
Toluene	2	21	25	20	95	115	19	
Xylenes, Total	2	65	76	60	105	123	16	

Advisory Control Limits for MS/MSDs

Inorganic Parameters - The spike recovery should be 75-125% if the spike amount value is greater than or equal to one fourth of the sample result value. The RPD for the MS/MSD should be less than 20.

NOTE: Matrix Spike Samples may not be samples from this job.

NET NATIONAL ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY RECORD

COMPANY ENRON (TWP)
ADDRESS P.O. BOX 1188 HOUSTON, TX 77251
PHONE (713)646-7327 FAX (713)646-7867
PROJECT NAME/LOCATION WT1 STATION
PROJECT NUMBER
PROJECT MANAGER

c/o ENRON OPERATIONS CORP
3AC-3142
REPORT TO: P.O. BOX 1188 HOUSTON, TX 77251
INVOICE TO: (SAME)
~~P.O. NO.~~
~~NET QUOTE NO.~~

SAMPLED BY
SANDY SHARP (PRINT NAME) Sandy Sharp SIGNATURE
(PRINT NAME) SIGNATURE

DATE	TIME	SAMPLE ID/DESCRIPTION	MATRIX	GRAB	COMP	# and Type of Containers: HCl	NaOH	HNO_3	H_2SO_4	OTHER	ANALYSES: BTEX/8020
11/21	1424	MW-13	A			2G					X
	1445	MW-11	A			1G				1G	X
	1540	MW-9	A			2G					X
	1630	MW-12	A			2G					X

To assist us in selecting the proper method
Is this work being conducted for regulatory compliance monitoring? Yes ___ No ___
Is this work being conducted for regulatory enforcement action? Yes ___ No ___
Which regulations apply: RCRA ___ NPDES Wastewater ___ UST ___ Drinking Water ___ Other ___ None ___

COMMENTS
ONE VIAL CONTAINS $HgCl_2$ PRESERVE.

CONDITION OF SAMPLE: BOTTLES INTACT? YES / NO
FIELD FILTERED? YES / NO
COC SEALS PRESENT AND INTACT? YES / NO
VOLATILES FREE OF HEADSPACE? YES / NO
TEMPERATURE UPON RECEIPT: HC
Bottles supplied by NET? YES / NO

SAMPLE REMAINDER DISPOSAL: RETURN SAMPLE REMAINDER TO CLIENT VIA ___
I REQUEST NET TO DISPOSE OF ALL SAMPLE REMAINDERS SLS DATE 11/22/95

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED FOR NET BY:
Sandy Sharp	11/23/95				11/27/95	9:00	[illegible] DeWitt

METHOD OF SHIPMENT
REMARKS: A1

PT 1 - ORIGINAL - WHITE PT 2 - NET PROJECT MANAGER - YELLOW PT 3 - CUSTOMER COPY - PINK

Semi-annual Report of Groundwater Remediation Activities

Transwestern Pipeline Company
WT-1 Compressor Station Dehy Area

Attachment #2

Lab Reports for February 1996
Groundwater Sampling Events

NATIONAL ENVIRONMENTAL TESTING, INC.

Dallas Division
1548 Valwood Parkway
Suite 118
Carrollton, TX 75006
Tel: (214) 406-8100
Fax: (214) 484-2969

ANALYTICAL AND QUALITY CONTROL REPORT

George Robinson
ENRON CORPORATION
Env. Affairs, Rm 3 AC 3142
P.O. Box 1188
Houston, TX 77251

03/04/1996

NET Job Number: 96.01433

Enclosed is the Analytical and Quality Control report for the following samples submitted to the Dallas Division of NET, Inc. for analysis. Reproduction of this analytical report is permitted only in its entirety.

Sample Number	Sample Description	Date Taken	Date Received
295905	MW-9	02/22/1996	02/26/1996
295906	MW-13	02/22/1996	02/26/1996
295907	MW-11	02/22/1996	02/26/1996
295908	MW-12	02/22/1996	02/26/1996

National Environmental Testing, Inc. certifies that the analytical results contained herein apply only to the specific samples analyzed.

Holding Times: All holding times were within method criteria.

Method Blanks: All method blanks were within quality control criteria.

Instrument calibration: All calibrations were within method quality control criteria.

Analysis Comments: No Unusual Comments

Gregory K. Horton
Project Manager

ANALYTICAL REPORT

George Robinson
ENRON CORPORATION
Env. Affairs, Rm 3 AC 3142
P.O. Box 1188
Houston, TX 77251

03/04/1996
Job No.: 96.01433

Project Name: TWP-WT-1 COMPRESSOR STATION

Date Received: 02/26/1996

295905 MW-9
Taken: 02/22/1996 15:30

EPA-8020 AQ (PRESERVED)		
Benzene	13	ug/L
Ethylbenzene	<2	ug/L
Toluene	<2	ug/L
Xylenes, Total	<2	ug/L
SURR: a,a,a-TFT	104	% Rec

295906 MW-13
Taken: 02/22/1996 12:10

EPA-8020 AQ (PRESERVED)		
Benzene	<2	ug/L
Ethylbenzene	<2	ug/L
Toluene	<2	ug/L
Xylenes, Total	<2	ug/L
SURR: a,a,a-TFT	79	% Rec

295907 MW-11
Taken: 02/22/1996 11:55

EPA-8020 AQ (PRESERVED)		
Benzene	<2	ug/L
Ethylbenzene	<2	ug/L
Toluene	<2	ug/L
Xylenes, Total	<2	ug/L
SURR: a,a,a-TFT	95	% Rec

295908 MW-12
Taken: 02/22/1996 13:55

EPA-8020 AQ (PRESERVED)		
Benzene	<2	ug/L
Ethylbenzene	<2	ug/L
Toluene	<2	ug/L
Xylenes, Total	<2	ug/L
SURR: a,a,a-TFT	92	% Rec

QUALITY CONTROL REPORT
Continuing Calibration Verification (CCV)

JOB NUMBER: 96.01433

PARAMETER	ANALYST	DATE ANALYZED	METHOD	CCV RESULT	CCV TRUE CONCENTRATION	% REC.	FLAG
EPA-8020 AQ (PRESERVED)			S-8020M				
Benzene	bgm	02/29/1996	S-8020M	20	20	100	NA
Ethylbenzene	bgm	02/29/1996	S-8020M	22	20	110	NA
Toluene	bgm	02/29/1996	S-8020M	20	20	100	NA
Xylenes, Total	bgm	02/29/1996	S-8020M	66	60	110	NA
EPA-8020 AQ (PRESERVED)			S-8020M				
Benzene	bgm	03/01/1996	S-8020M	20	20	100	NA
Ethylbenzene	bgm	03/01/1996	S-8020M	22	20	110	NA
Toluene	bgm	03/01/1996	S-8020M	21	20	105	NA
Xylenes, Total	bgm	03/01/1996	S-8020M	67	60	112	NA
EPA-8020 AQ (PRESERVED)			S-8020M				
Benzene	bgm	03/04/1996	S-8020M	16	20	80	NA
Ethylbenzene	bgm	03/04/1996	S-8020M	18	20	90	NA
Toluene	bgm	03/04/1996	S-8020M	16	20	80	NA
Xylenes, Total	bgm	03/04/1996	S-8020M	56	60	93	NA

Method References and Codes

The Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

E-100 through 493: "Methods for Chemical Analysis of Water & Wastes", U.S. EPA, 600/4-79-020, rev. 1983.

E-601 through 625: "Guidelines Establishing Test Procedures for the Analysis of Pollutants", U.S. EPA, 40CFR, Part 136, rev. 1990.

S-1000 through 9999: "Test Methods for Evaluating Solid Waste", U.S. EPA SW-846, 3rd Edition, 1986.

A: "Standard Methods for the Examination of Water and Wastewater", 16th Edition, APHA, 1985.

SM: "Standard Methods for the Examination of Water and Wastewater", 18th Edition, APHA, 1992.

D: ASTM Method

M: Method has been modified

*: Other Reference

QUALITY CONTROL REPORT
BLANKS

JOB NUMBER: 96.01433

PARAMETER	DATE ANALYZED	BLANK	UNITS	REPORTING LIMIT	FLAG
EPA-8020 AQ (PRESERVED)					
Benzene	02/29/1996	<2	ug/L	2	NA
Ethylbenzene	02/29/1996	<2	ug/L	2	NA
Toluene	02/29/1996	<2	ug/L	2	NA
Xylenes, Total	02/29/1996	<2	ug/L	2	NA

Advisory Control Limits for Blanks

Metals/Wet Chemistry/Conventionals/GC - All compounds should be less than the Reporting Limit.

GC/MS Semi-Volatiles - All compounds should be less than the Reporting Limit except for phthalates which should be less than 5 times the Reporting Limit.

GC/MS Volatiles - Toluene, Methylene chloride, Acetone and Chloroform should be less than 5 times the Reporting Limit. All other volatile compounds should be less than the Reporting Limit.

QUALITY CONTROL REPORT
Laboratory Control Sample
(LCS)

JOB NUMBER: 96.01433

PARAMETER	LCS RESULT	TRUE CONC.	LCS % REC.	FLAG
EPA-8020 AQ (PRESERVED)				
Benzene	21	20	105	
Ethylbenzene	22	20	110	
Toluene	19	20	95	
Xylenes, Total	65	60	108	

Advisory Control Limits for LCS

Inorganic Parameters - The LCS recovery should be 80-120%.

QUALITY CONTROL REPORT
Matrix Spike / Matrix Spike Duplicate
(MS / MSD)

JOB NUMBER: 96.01433

PARAMETER	SAMPLE RESULT	MS RESULT	MSD RESULT	SPIKE AMOUNT	MS % REC.	MSD % REC.	MS/MSD RPD	FLAG
EPA-8020 AQ (PRESERVED)								
Benzene	<2	16	18	20	80	90	12	
Ethylbenzene	<2	17	20	20	85	100	16	
Toluene	<2	16	19	20	80	95	17	
Xylenes, Total	<2	53	62	60	88	103	16	

Advisory Control Limits for MS/MSDs

Inorganic Parameters - The spike recovery should be 75-125% if the spike amount value is greater than or equal to one fourth of the sample result value. The RPD for the MS/MSD should be less than 20.

NOTE: Matrix Spike Samples may not be samples from this job.

NET NATIONAL ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY RECORD

GEORGE ROBINSON
C/O ENRON OPERATIONS CORP
ATTN: EAC-3142

COMPANY ENRON OPERATIONS CORP
ADDRESS P.O. BOX 1188 HOUSTON, TX 77251
PHONE (713) 646-7252 FAX (713) 646-7867
PROJECT NAME/LOCATION TWP - WT-1 Compressor Station
PROJECT NUMBER
PROJECT MANAGER

REPORT TO: P.O. BOX 1188
INVOICE TO: HOUSTON, TX 77251
P.O. NO.
NET QUOTE NO.

SAMPLED BY Sandy Stamp (PRINT NAME) Sandy Stamp (SIGNATURE)
(PRINT NAME) (SIGNATURE)

DATE	TIME	SAMPLE ID/DESCRIPTION	MATRIX	GRAB	COMP	# and Type of Containers: HCl	NaOH	HNO_3	H_2SO_4	OTHER	ANALYSES: X BTEX - 8020
2/22	1530	MW-9	A	X		2 G					X
"	1210	MW-13	"	"		"					"
"	1155	MW-11	"	"		"					"
"	1355	MW-12	"	"		"					"

To assist us in selecting the proper method
Is this work being conducted for regulatory compliance monitoring? Yes X No
Is this work being conducted for regulatory enforcement action? Yes No X
Which regulations apply: RCRA NPDES Wastewater
UST Drinking Water
Other X None

COMMENTS

CHW 3141

CONDITION OF SAMPLE: BOTTLES INTACT? YES / NO
FIELD FILTERED? YES / NO NA
COC SEALS PRESENT AND INTACT? YES / NO
VOLATILES FREE OF HEADSPACE? YES / NO
TEMPERATURE UPON RECEIPT: 4°C
Bottles supplied by NET? YES / NO

SAMPLE REMAINDER DISPOSAL: RETURN SAMPLE REMAINDER TO CLIENT VIA
I REQUEST NET TO DISPOSE OF ALL SAMPLE REMAINDERS DATE

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED FOR NET BY:
Sandy Stamp	2/23/96	15:30			2/26/96	10:00 AM	DeDewitt

METHOD OF SHIPMENT
REMARKS:

Semi-annual Report of Groundwater Remediation Activities

Transwestern Pipeline Company
WT-1 Compressor Station Dehy Area

Attachment #3

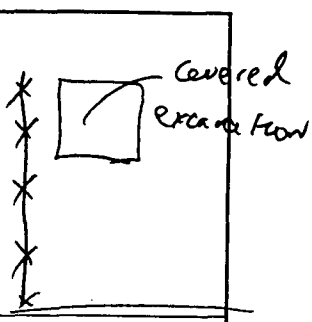
Boring Logs for the SVE Soil Borings Drilled During October 1995

DANIEL B. STEPHENS & ASSOCIATES, INC.

Boring Log

Site	ENRON - WT1
Logged by	P. Gymon
Client/Project #	4231
Boring Number	SVE-1
Drilling Co.	Eades Drilling
Drilling Method	Air Rotary 6 1/8" BIT
Drill Rig	Ingersoll Rand THD 75
Date Started	10/4/95
Date Completed	10/6/95 10/4/95

Location Map



PID/FID Reading	Blow Counts	Sampling Device	Sample Recovery	Sample Interval	Sample Number	USCS Symbol	Depth (feet)	Soil Description/Remarks Soil type, color, texture, grain size, sorting, roundness, plasticity, consistency, moisture content
2.3		Grab				CALICHE	5	SANDY LIMESTONE (CALACHE), GRAYISH PINK (5R 8/2 RCK) SAND FINE TO MED GR, SUB ANGULAR GR, MOD SORTED, 30% SAND, 70% CARBONATE, CARBONATE UP TO COBBLE SIZE ON SURFACE, MOD CONSOLIDATED, DRY
3.9		Grab					10	SAME AS ABOVE, MORE SANDY 40–50% SAND, SOME DARK LITH. FRAG,
8.3		Grab				CALCAREOUS SAND ST. 5, 5,	15	CALCAREOUS SAND ST, GRAYISH ORANGE PINK (5YR 7/2 RCK), FINE TO MED GR, MOD SORTED, SUBANGULAR GR, MOD, CONSOLIDATED, DRY 85% SAND 15% CARBONATE MATRIX
8.4		Grab					20	CALCAREOUS SAND ST, MODERATE REDDISH BROWN (10R 4/6 RCK) FINE TO MED GR, SUBROUNDED TO ROUNDED GR, STRONGLY CONSOLIDATED, DRY, MINOR BEDS OF SAND ST.
9.8		Grab					25	SAND ST MODERATE REDDISH BROWN (10R 4/6 RCK) VI FINE TO MED GR, POORLY SORTED, SUBANGULAR GR, STRONGLY CONSOLIDATED, DAMP, CLAY & CARBONATE MATRIX
9.0		Grab				5, 5	30	SAND ST, PALE RED (10R 6/2 RCK), FINE TO MED GR, SUB ANGULAR TO ROUNDED GR, WELL SORTED, STRONGLY CONSOLIDATED, DRY
7.0		Grab					35	SAME AS ABOVE
11.8		Grab					40	

DANIEL B. STEPHENS & ASSOCIATES, INC.

Boring Log

Site ENRON WT-1	Location Map: SEE PAGE 1
Logged by CP	Client/Project # 4231
Boring Number SVE-1	Drilling Co. EADES
Drilling Method AIR ROTARY 6 1/8" BIT	Drill Rig IR THD 75
Date Started 10/4/95	Date Completed 10/6/95

PID/FID Reading	Blow Counts	Sampling Device	Sample Recovery	Sample Interval	Sample Number	USCS Symbol	Depth (feet)	Soil Description/Remarks (Soil type, color, texture, grain size, sorting, roundness, plasticity, consistency, moisture content)
8.0		Grab					40	SAND ST, MODERATE REDDISH BROWN (10 R 4/6 RCK) V. FINE TO FINE GR WELL SORTED, SUBROUNDED GR STRONGLY CONSOLIDATED, DRY
9.0		Grab				SM SP	45	SAME AS ABOVE
4.9		Grab					50	SAME AS ABOVE EXCEPT FINE TO MED. GR.
11.0		Grab					55	SAND ST, MODERATE REDDISH BROWN (10 R 4/6 RCK) V. FINE TO FINE GR WELL SORTED, ROUNDED GR, STRONGLY CONSOLIDATED, WET top bottom @ 55

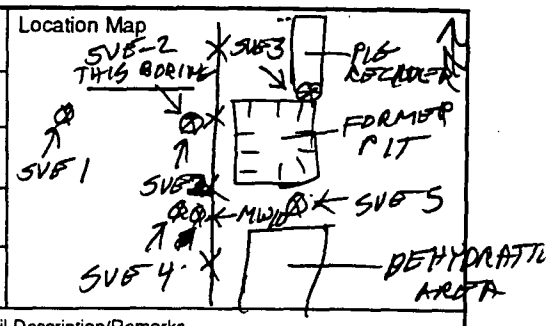
DBS&A Form No. 080 3/92

DANIEL B. STEPHENS & ASSOCIATES, INC.

Boring Log

Site ENRON WT-1	
Logged by C. PIGMAN	Client/Project # 4231
Boring Number SVE-3	Drilling Co. EADES
Drilling Method AIR ROTARY 6 1/8" BIT	Drill Rig INGERSOLL RAND TH 75W
Date Started 10/5/95	Date Completed 10/6/95

Location Map



PID/FID Reading	Blow Counts	Sampling Device	Sample Recovery	Sample Interval	Sample Number	USCS Symbol	Depth (feet)	Soil Description/Remarks (Soil type, color, texture, grain size, sorting, roundness, plasticity, consistency, moisture content)
1.3		GRAB CUTTINGS					5	SANDY LIMESTONE (CALICHE), GRAYISH ORANGE PINK (5YR 7/2 RCK) 30% SAND, 70% CARBONATE SAND FINE TO MED GR, MOD SORTED, ROUNDED GR, IN CARBONATE MATRIX,
2.4		GRAB CUTTINGS				CALICHE	10	MOD CONSOLIDATED, DRY CALCAREOUS SANDSTONE, GRAYISH ORANGE PINK (5YR 7/2 RCK) V. FINE TO MED GR, POORLY SORTED, ROUNDED GR, 70% SAND IN 30% CARBONATE MATRIX, MOD CONSOLIDATED DRY
2.5		GRAB "					15	
2.5		GRAB "				CALC. S.S.	16	CALCAREOUS SANDSTONE, MODERATE ORANGE PINK, (5YR 8/4 RCK) FINE TO MED GR, MOD SORTED, SUBROUNDED GR, 90% SAND W/ 10% CARBONATE MATRIX, MOD CONSOLIDATED DRY
3.4		GRAB CUTTINGS				S.S.	20	SANDSTONE, MODERATE REDDISH BROWN (10R 4/6 RCK) V. FINE TO FINE GR, POORLY SORTED, SUB ROUNDED GR, STRONGLY CONSOLIDATED DAMP
2.4		GRAB "					25	SANDSTONE, MODERATE REDDISH BROWN (10R 4/6 RCK) V. FINE TO MED GR, POORLY SORTED, SUB ANGULAR GR, STRONGLY CONSOLIDATED, MOIST W/ BEDS OF FINE GR WELL SORTED SANDSTONE
2.2		GRAB "					30	SANDSTONE, MODERATE REDDISH BROWN (10R 4/6 RCK) V. FINE TO FINE GR, WELL SORTED, SUBROUNDED GR, STRONGLY CONSOLIDATED MOIST
1.8		GRAB "					35	SAME AS ABOVE
1.6		GRAB CUTTINGS					40	SAME AS ABOVE
							45	SAME AS ABOVE ONLY JUST DAMP
							50	

DANIEL B. STEPHENS & ASSOCIATES, INC.

Boring Log

Site ENRON WT-1

Logged by C. PIGMAN | Client/Project # 4231

Boring Number SVE-2 | Drilling Co. EADES

Drilling Method AIR ROTARY 6 1/8" BIT | Drill Rig IR TH 75W

Date Started 10/5/95 | Date Completed 10/6/95

Location Map

SEE PAGE 1

PID/FID Reading	Blow Counts	Sampling Device	Sample Recovery	Sample Interval	Sample Number	USCS Symbol	Depth (feet)	Soil Description/Remarks (Soil type, color, texture, grain size, sorting, roundness, plasticity, consistency, moisture content)
2.6		GRAB CUTTINGS					50	SAME AS ABOVE, MOIST AGAIN
11.3				52-53.5			53	SAME AS ABOVE MOIST TO WET
2ND = 38.0		GRAB CUTTINGS					55	T.D. AT 53'

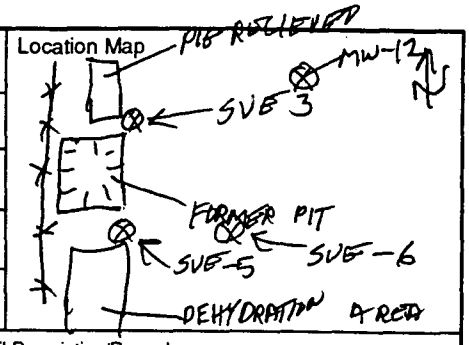
DBS&A Form No. 080 3/92

DANIEL B. STEPHENS & ASSOCIATES, INC.

Boring Log

Site	ENRON WT-1		
Logged by	C.P./B.M./	Client/Project #	4231
Boring Number	SVE 3	Drilling Co.	EADES
Drilling Method	AIR ROTARY 6 1/8" BIT	Drill Rig	INGERSOLL RAND TH 75W
Date Started	10/5/95	Date Completed	10/6/95

Location Map



PID/FID Reading	Blow Counts	Sampling Device	Sample Recovery	Sample Interval	Sample Number	USCS Symbol	Depth (feet)	Soil Description/Remarks (Soil type, color, texture, grain size, sorting, roundness, plasticity, consistency, moisture content)
3.8		GRAB CUTTINGS		4-5			5	SANDY LIMESTONE, MODERATE BROWN (5YR 4/4 RCK) 30% SAND 70% CARBONATE, SAND FINE TO MED GR, MOD SORTED, SUBROUNDED GR, MOD CONSOLIDATED, DAMP
7.9		GRAB "		9-10			10	CALCAREOUS S.S, ~~FINE TO~~ GRAYISH ORANGE PINK (5YR 7/2 RCK) FINE TO MED GR, WELL SORTED, ROUNDED GR, MOD CONSOLIDATED, DRY, 50% SAND IN 50% CARBONATE MATRIX
6.7		GRAB "		14-15			15	CALCAREOUS S.S, PALE YELLOWISH BROWN (10YR 6/2 RCK) FINE TO MED GR, WELL SORTED, ROUNDED GR, MOD CONSOLIDATED, DRY, 65% SAND IN 35% CARBONATE MATRIX
7.0		GRAB "		19-20			20	SANDSTONE MODERATE REDDISH BROWN (10 R 4/6 RCK) V. FINE TO MED GR, POORLY SORTED, SUBROUNDED GR, STRONGLY CONSOLIDATED, DRY
5.8		GRAB "		24-25			25	SANDSTONE, MODERATE REDDISH BROWN (10R 4/6 RCK) V. FINE TO MED GR, MOD SORTED, SUBROUNDED GR, STRONGLY CONSOLIDATED, DAMP
5.6		GRAB "		29-30			30	SANDSTONE, MODERATE REDDISH BROWN (10R 4/6 RCK) V. FINE TO FINE GR, WELL SORTED, STRONGLY CONSOLIDATED, DAMP
8.5		GRAB "		34-35			35	SAME AS ABOVE
13.5		GRAB "		39-40			40	SAME AS ABOVE, EXCEPT MOIST
6.6		GRAB CUTTINGS		44-45			45	SAME AS ABOVE, EXCEPT MOIST
9.6		GRAB					50	

DBS&A Form No. 080 3/92

5.9 Grab

DANIEL B. STEPHENS & ASSOCIATES, INC.

Boring Log

Site EXXON WT-1		Location Map: SEE PAGE 1
Logged by CP / BM	Client/Project # 4231	
Boring Number SVE 3	Drilling Co. ETADES	
Drilling Method AIR ROTARY 6 1/8" BIT	Drill Rig INGERSOLL RAND TH75W	
Date Started 10/5/95	Date Completed 10/6/95	

PID/FID Reading	Blow Counts	Sampling Device	Sample Recovery	Sample Interval	Sample Number	USCS Symbol	Depth (feet)	Soil Description/Remarks (Soil type, color, texture, grain size, sorting, roundness, plasticity, consistency, moisture content)
9.6		GRAB CUTTINGS		49-50			50	SAME AS ABOVE, MOIST
5.9		GRAB CUTTINGS		54-55			55	SAME AS ABOVE, MOIST

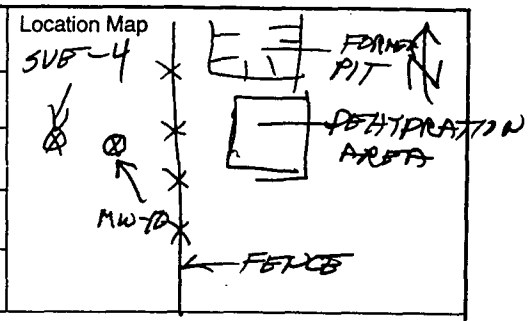
DBS&A Form No. 080 3/92

DANIEL B. STEPHENS & ASSOCIATES, INC.

Boring Log

Site	ENRON WEST TEXAS #1		
Logged by	C. PIGMAN	Client/Project #	4231
Boring Number	SVE-4	Drilling Co.	
Drilling Method	AIR ROTARY 6 1/8" BIT	Drill Rig	INGERSOLL RAND THD 75
Date Started	~~10/4/95~~ 10/4/95	Date Completed	10/6/95

Location Map



PID/FID Reading	Blow Counts	Sampling Device	Sample Recovery	Sample Interval	Sample Number	USCS Symbol	Depth (feet)	Soil Description/Remarks (Soil type, color, texture, grain size, sorting, roundness, plasticity, consistency, moisture content)
3.7	GRAB CUTTINGS					CALICHE	5	LIMESTONE (CALICHE) GRAYISH ORANGE PINK (5YR 7/2 RCK) 90% CARBONATE W/ 10% SAND MODERATELY CONSOLIDATED, DRY
4.3	GRAB "						10	SAME AS ABOVE ONLY SANDIER 30-40% SAND SAND ~~MED GR~~ FINE TO MED GR, WELL SORTED, SUBROUNDED GR
4.6	GRAB "						15	SAME AS ABOVE 30-40% ~~SAND~~ FINE TO MED GR SUBROUNDED SAND GR IN 60-70% CARBONATE
6.0	GRAB "						20	CALCAREOUS SANDSTONE, ~~PINKISH~~ PALE REDDISH BROWN (10R 5/4 RCK) V. FINE TO FINE GR, MOD. SORTED SUBANGULAR GR, MOD. CONSOLIDATED, DRY
4.5	GRAB "					72 / 11	25	CALCAREOUS SANDSTONE, PALE REDDISH BROWN (10R 5/4 RCK) V. FINE TO MED GR, POORLY SORTED, SUBROUNDED TO GR MOD CONSOLIDATED, DRY
4.3	GRAB "						30	SANDSTONE, PALE REDDISH BROWN (10R 5/4 RCK) V. FINE TO FINE, MOD SORTED, SUBANGULAR GRAINS, STRONGLY CONSOLIDATED, DRY
4.6	GRAB "						35	~~SAND STONE~~ PALE REDDISH BROWN (10R 5/4 RCK) V. FINE TO FINE GR, WELL SORTED, SUBROUNDED TO ROUNDED GR STRONGLY CONSOLIDATED, DRY
> 1005	GRAB "						40	SAME AS ABOVE
> 1005	GRAB CUTTINGS						45	SAME AS ABOVE
							50	

DANIEL B. STEPHENS & ASSOCIATES, INC.

Boring Log

Site	ENRON WT-1		Location Map
Logged by	K. PIGMAN	Client/Project #	4231
Boring Number	SVE-4	Drilling Co.	EADES
Drilling Method	AIR ROTARY 6 1/8" BIT	Drill Rig	IR THD 75
Date Started	~~10/6/95~~ 10/6/95	Date Completed	10/6/95

SEE PAGE 1

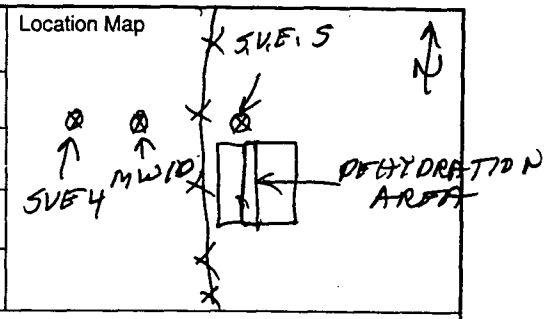
PID/FID Reading	Blow Counts	Sampling Device	Sample Recovery	Sample Interval	Sample Number	USCS Symbol	Depth (feet)	Soil Description/Remarks Soil type, color, texture, grain size, sorting, roundness, plasticity, consistency, moisture content
> 1005		~~GRAB~~ CUTTINGS					50	SAND STONE, MODERATE REDDISH BROWN (10R 4/6 RCK) FINE TO MED GR, WELL SORTED SUBROUNDED TO ROUNDED GR, STRONGLY CONSOLIDATED, DRY
715		~~GRAB~~ CUTTINGS					55	SAND STONE, PALE RED (10R 6/2 RCK) VI FINE TO FINE GR, MOD. SORTED ANGULAR TO SUBANGULAR GR, STRONGLY CONSOLIDATED, DRY

DANIEL B. STEPHENS & ASSOCIATES, INC.

Boring Log

Site	ENRON WEST TEXAS 1
Logged by	C. PIGMAN
Client/Project #	4231
Boring Number	SVE 5
Drilling Co.	EADES
Drilling Method	AIR ROTARY 6 1/8" BIT
Drill Rig	INGERSOLL RAND TH 75W
Date Started	~~10/4/95~~ 10/4/95
Date Completed	10/6/95

Location Map



PID/FID Reading	Blow Counts	Sampling Device	Sample Recovery	Sample Interval	Sample Number	USCS Symbol	Depth (feet)	Soil Description/Remarks Soil type, color, texture, grain size, sorting, roundness, plasticity, consistency, moisture content
2.3		GRAB CUTTINGS				CALICHE	5	SANDY LIMESTONE (CALICHE), PALE YELLOWISH BROWN (10YR 5/4 RCK) 40% SAND 60% CARBONATE SAND MED GR, WELL SORTED, ROUNDED GR, LS, CLASTS UP TO COBBLE SIZE
1.6		GRAB 11					10	MOD CONSOLIDATED DRY CALCAREOUS S.S. – SAME AS ABOVE EXCEPT MUCH MORE SANDY 80% SAND 20% CARBONATE SAND FINE TO MED GR.
1.5		GRAB 11				CALCAREOUS S.S.	13	
5.7		GRAB 11					15	CALCAREOUS SANDSTONE GRAYISH ORANGE PINK (5YR 7/2 RCK) FINE TO MED GR, WELL SORTED, SUBROUNDED GR, MOD. CONSOLIDATED, DRY, 80% SAND / 20% CARBONATE MATRIX
6.5		GRAB 11					20	SAND STONE, MODERATE REDDISH BROWN
							22	(10R 4/6 RCK) V. FINE TO MED GR, MOD SORTED, SUBANGULAR TO SUBROUNDED GR, MOD CONSOLIDATED, DRY, 90% SAND 10% CARBONATE
5.6		GRAB 11				S.S.	25	SANDSTONE, PALE REDDISH BROWN (10R 5/4 RCK) V. FINE TO MED GR, POORLY SORTED, SUBANGULAR GR, STRONGLY CONSOLIDATED DRY
7 1878		GRAB 11					30	SANDSTONE, GRAYISH RED (10R 4/2 RCK) SAME AS ABOVE W/ SOME V. FINE GR V. STRONGLY CONSOLIDATED LAYERS
7 1871		GRAB 11					35	SAND STONE, MODERATE REDDISH BROWN (10R 4/6 RCK) V. FINE TO FINE GR, WELL SORTED, SUBROUNDED GR, STRONGLY CONSOLIDATED, DAMP, STRONG H.C. ODOR
7 1871		GRAB CUTTINGS					40	SANDSTONE, DARK REDDISH BROWN (10R 3/4 RCK) V. FINE TO MED GR POORLY SORTED, SUBANGULAR TO SUBROUNDED GR, STRONGLY CONSOLIDATED, DAMP, STRONG H.C. ODOR & SOME H.C. (GRAYISH) STAINING
							45	SAND STONE DARK REDDISH BROWN (10R 3/4 RCK) V. FINE TO FINE GR, WELL SORTED, SUBROUNDED GR, STRONGLY CONSOLIDATED, DAMP STRONG H.C. ODOR & SOME H.C. STAINING (GRAYISH)
							50	

DANIEL B. STEPHENS & ASSOCIATES, INC.

Boring Log

Site ENRON WT 1	Location Map: SEE PAGE 1
Logged by C. PIRMAN	Client/Project # 4231
Boring Number SVE 5	Drilling Co. EADES
Drilling Method AIR ROTARY 6 1/8" BIT	Drill Rig IR - TH75W
Date Started 10/4/95	Date Completed 10/6/95

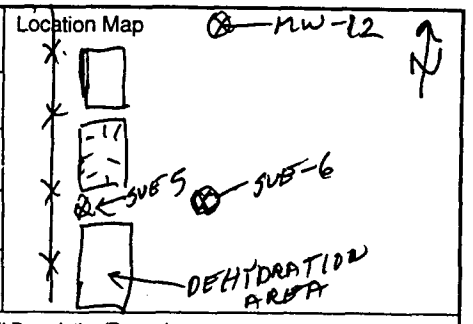
PID/FID Reading	Blow Counts	Sampling Device	Sample Recovery	Sample Interval	Sample Number	USCS Symbol	Depth (feet)	Soil Description/Remarks (Soil type, color, texture, grain size, sorting, roundness, plasticity, consistency, moisture content)
1871							50	SAME AS ABOVE BUT LESS STAINED & LIGHTER IN COLOR MODERATE REDDISH BROWN (10 R 4/6 RCK)
							53	
1871 (53')							55	SAME AS ABOVE AGAIN LIGHTER IN COLOR MODERATE REDDISH BROWN (10 R 4/6 RCK) SLIGHTLY DAMPER
								T.D. SVE-5 AT 53'

DANIEL B. STEPHENS & ASSOCIATES, INC.

Boring Log

Site	ENRON WEST TEXAS #1		
Logged by	C. PIGMAN	Client/Project #	4231
Boring Number	SVE 6	Drilling Co.	EADES
Drilling Method	AIR ROTARY 6 1/8" BIT	Drill Rig	INGERSOLL RAND TH 75W
Date Started	10/5/95	Date Completed	10/6/95

Location Map



PID/FID Reading	Blow Counts	Sampling Device	Sample Recovery	Sample Interval	Sample Number	USCS Symbol	Depth (feet)	Soil Description/Remarks Soil type, color, texture, grain size, sorting, roundness, plasticity, consistency, moisture content
0.1		GRAB CUTTINGS		4-5		CALICHE	5	SANDY LIMESTONE, GRAYISH ORANGE PINK (5YR7/2 RCK) 20% SAND 80% CARBONATE SAND FINE TO MED GR, WELL SORTED, ROUNDED GR, MOD CONSOLIDATED, DRY
0.3		GRAB "		9-10			10	SANDY LIMESTONE, GRAYISH ORANGE PINK (5YR7/2 RCK) 35% SAND 65% CARBONATE SAND VI FINE TO MED GR, MOD SORTED, SUBROUNDED GR, MOD CONSOLIDATED DRY
0.7		GRAB "		14-15		CALCAREOUS SS	14 15	CALCAREOUS SANDSTONE GRAYISH ORANGE PINK (5YR7/2 RCK) VI FINE TO FINE GR, MOD SORTED, SUBROUNDED GR, MOD CONSOLIDATED, DRY 50% SAND 50% CARBONATE
0.4		GRAB "		19-20			20 24	CALCAREOUS SANDSTONE, GRAYISH ORANGE PINK (5YR7/2 RCK) VI FINE TO MED GR POORLY SORTED, SUBROUNDED GR, MOD CONSOLIDATED DRY 20% SAND IN 30% CARBONATE MATRIX
0.5		GRAB "		24-25			25	SANDSTONE, PALE REDDISH BROWN (10R5/4 RCK) VI FINE TO MED GR, POORLY SORTED, SUBROUNDED GR, MOD CONSOLIDATED DRY
1.2		GRAB "		29-30			30	SANDSTONE, MODERATE REDDISH BROWN (10R5/4 RCK) VI FINE TO FINE GR, POORLY SORTED, SUBROUNDED GR STRONGLY CONSOLIDATED, DAMP,
1.4		GRAB "		34-35			35	SAME AS ABOVE
2.3		GRAB "		39-40			40	SANDSTONE, MODERATE REDDISH BROWN (10R5/4 RCK) VI FINE TO FINE GR, WELL SORTED, SUBROUNDED GR, STRONGLY CONSOLIDATED, MOIST
2.0		GRAB "		44-45			45	SANDSTONE, SAME AS ABOVE EXCEPT ONLY DAMP
45							50	

Site ENRON WT-1	Location Map: SEE PAGE 1
Logged by C. PIGMAN	Client/Project # 4231
Boring Number SVE 6	Drilling Co. EADES
Drilling Method AIR ROTARY 6 1/8" BIT	Drill Rig IR TH 75W
Date Started 10/5/95	Date Completed 10/6/95

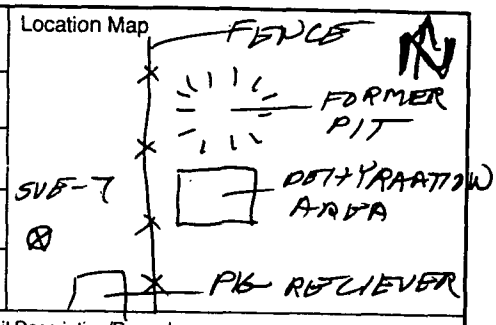
PID/FID Reading	Blow Counts	Sampling Device	Sample Recovery	Sample Interval	Sample Number	USCS Symbol	Depth (feet)	Soil Description/Remarks (Soil type, color, texture, grain size, sorting, roundness, plasticity, consistency, moisture content)
1.5	GRAB CUTTINGS			49-50			50	SAME AS ABOVE EXCEPT ONLY DAMP
1.7	GRAB CUTTINGS			51-52				SAME AS ABOVE EXCEPT MOIST
2.0	GRAB CUTTINGS			54-55			55	SAME AS ABOVE EXCEPT WET

DANIEL B. STEPHENS & ASSOCIATES, INC.

Boring Log

Site ERDN WEST TEXAS NO. 1	
Logged by C. PIRMAN	Client/Project # 4231
Boring Number SVE - 7	Drilling Co. EADES
Drilling Method AIR ROTARY 6 1/8" BIT	Drill Rig INGER SOLLRAND THD 15
Date Started 10/4/95	Date Completed 10/6/95

Location Map



PID/FID Reading	Blow Counts	Sampling Device	Sample Recovery	Sample Interval	Sample Number	USCS Symbol	Depth (feet)	Soil Description/Remarks Soil type, color, texture, grain size, sorting, roundness, plasticity, consistency, moisture content
7.6		GRAB CUTTINGS				CALICHE	5	SANDY LIMESTONE (CALICHE), PINKISH GRAY (5YR 8/1) 20% SAND 80% CARBONATE SAND V. FINE TO MED GR, SUBROUNDED GR POORLY SORTED, CARBONATE UP TO COBBLES, DRY MOD CONSOLIDATED
4.6		GRAB 11					10	CALCAREOUS SANDST, LIGHT BROWN (5YR 6/4) FINE TO MED GR, WELL SORTED SUBROUNDED GR 90% SAND 10% CARBONATE, MOD CONSOLIDATED DR
7.4		GRAB 11					14' 15	CALCAREOUS SS, LIGHT BROWN (5YR 6/4) V. FINE TO FINE GR, WELL SORTED, SUBROUNDED GR, 90% SAND 10% CARBONATE MOD CONSOLIDATED, DRY
9.1		GRAB 11				CALCAREOUS SS	20	SANDST, CALCAREOUS, LIGHT BROWN (5YR 6/4 RCK) V. FINE TO MED GR, POORLY SORTED, SUBROUNDED GRAINS, 85% SAND 15% CARBONATE & SILT MATRIX, MOD CONSOLIDATED DRY
8.6		GRAB 11					25	SANDSTONE, MODERATE REDDISH BROWN (10 R 4/6 RCK) V. FINE TO FINE GR, MOD SORTED, SUBROUNDED TO ROUNDED GR STRONGLY CONSOLIDATED DRY
6.1		GRAB 11					30	SANDSTONE, PALE REDDISH BROWN (10 R 5/4 RCK) FINE TO MED GR, WELL SORTED, SUBROUNDED GR, STRONGLY CONSOLIDATED, DRY
11.4		GRAB 11					35	SANDSTONE, PALE RED (10 R 6/2 RCK) V. FINE TO FINE GR, WELL SORTED SUBROUNDED GR, STRONGLY CONSOLIDATED DRY
10.5		GRAB 11					40	SANDSTONE, GRAYISH RED (10 R 4/2 RCK) V. FINE TO FINE GR, POORLY SORTED ANGULAR TO SUBROUNDED GR, STRONGLY CONSOLIDATED, DAMP
6.9		GRAB CUTTINGS					45	SANDSTONE, PALE REDDISH BROWN (10 R 5/4 RCK) V. FINE TO FINE GR, MOD SORTED SUBROUNDED GR, STRONGLY CONSOLIDATED DRY
							50	

DANIEL B. STEPHENS & ASSOCIATES, INC.

Boring Log

Site ENRON WT-1	Location Map: SEE PAGE 1
Logged by C. PIGMAN	Client/Project # 4231
Boring Number SVE-7	Drilling Co. EADES
Drilling Method AIR ROTARY 6 1/2" BIT	Drill Rig IR THD 75
Date Started 10/4/95	Date Completed 10/6/95

PID/FID Reading	Blow Counts	Sampling Device	Sample Recovery	Sample Interval	Sample Number	USCS Symbol	Depth (feet)	Soil Description/Remarks (Soil type, color, texture, grain size, sorting, roundness, plasticity, consistency, moisture content)
9.4				49-50			50	SANDSTONE, SAME AS ABOVE EXCEPT DAMP
9.2				54-55			55	SANDSTONE, MODERATE REDDISH BROWN (10R4/6 RCK), VI FINE TO FINE GR, MOD SORTED, SUBROUNDED GR, STRONGLY CONSOLIDATED, MOIST
2.4				57-58			58	SAME AS ABOVE, ONLY LIGHTER IN COLOR, PALE RED 10R6/2 RCK AND DRY

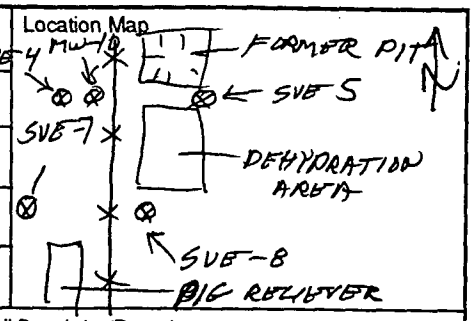
DBS&A Form No. 080 3/92

DANIEL B. STEPHENS & ASSOCIATES, INC.

Boring Log

Site ENRON WT-1	
Logged by C. PIGMAN	Client/Project # 4231
Boring Number SVE 8	Drilling Co. EADES
Drilling Method AIR ROTARY 6 1/8" BIT	Drill Rig INGERSOLL RAND TH 75W
Date Started 10/5/95	Date Completed 10/6/95

Location Map



PID/FID Reading	Blow Counts	Sampling Device	Sample Recovery	Sample Interval	Sample Number	USCS Symbol	Depth (feet)	Soil Description/Remarks Soil type, color, texture, grain size, sorting, roundness, plasticity, consistency, moisture content
0.3		GRAB CUTTINGS		4-5		CALICHE	5	SANDY LIMESTONE, GRAYISH ORANGE PINK (5YR 7/2 RCK) 45% SAND IN 55% CARBONATE MATRIX, SAND FINE TO MED GR, POORLY SORTED, ROUNDED GR, MOD CONSOLIDATED DRY
1.2		GRAB "		9-10			10	CALCAREOUS SANDSTONE, ~~SAME AS ABOVE EXCEPT~~ GRAYISH PINK ORANGE (5YR 7/2 RCK) FINE TO MED GR, SAND WELL SORTED, ROUNDED GR, MOD CONSOLIDATED DRY, 60% SAND IN 40% CARBONATE MATRIX
0.8		GRAB "		14-15			15	CALCAREOUS SANDSTONE LIGHT BROWN, VERY FINE TO MED GR, POORLY SORTED, SUBROUNDED GR, MOD CONSOLIDATED, DRY 75% SAND IN 25% CARBONATE MATRIX
1.2		GRAB "		19-20		CAL-CH, SS	20	SAND STONE PALE REDDISH BROWN (10 R 5/4 RCK) V. FINE TO MED, GR, POORLY SORTED, ROUNDED GR, MOD CONSOLIDATED DRY, 16% CARBONATE MATRIX
1.7		GRAB "		24-25			25	SAND STONE MODERATE REDDISH BROWN (10R 4/6 RCK) V. FINE TO MED GR, POORLY SORTED, SUBANGULAR GR, STRONGLY CONSOLIDATED, DRY
1.6		GRAB "		29-30			30	SAME AS ABOVE EXCEPT ~~MOIST~~ DAMP
1.8		GRAB "		34-35			35	SAME AS ABOVE, SLIGHTLY DARKER IN COLOR, DARK REDDISH BROWN (10 R 3/4 RCK) ALSO ~~MOIST~~ DAMP
1.4		GRAB "		39-40			40	SAND STONE, MODERATE REDDISH BROWN (10 R 4/6 RCK) V. FINE TO FINE GR, WELL SORTED, ROUNDED GR, STRONGLY CONSOLIDATED, MOIST
1.8		GRAB CUTTINGS		44-45			45	SAME AS ABOVE
							50	

DANIEL B. STEPHENS & ASSOCIATES, INC.

Boring Log

Site	ENRON WT-1		Location Map
Logged by	C. PIGMAN	Client/Project #	4231
Boring Number	SVE 8	Drilling Co.	EADES
Drilling Method	AIR ROTARY 6 1/8" BIT	Drill Rig	INGERSOLL RAND TH 75 W
Date Started	10/5/95	Date Completed	10/6/95

SEE PAGE 1

PID/FID Reading	Blow Counts	Sampling Device	Sample Recovery	Sample Interval	Sample Number	USCS Symbol	Depth (feet)	Soil Description/Remarks (Soil type, color, texture, grain size, sorting, roundness, plasticity, consistency, moisture content)
3.8				49-50			50	SANDSTONE SAME AS ABOVE
4.1				54-56			55 56	SAME AS ABOVE
								T.D. SVE 8 @ 56.5'

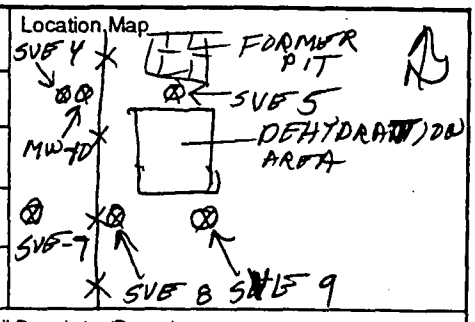
DBS&A Form No. 080 3/92

DANIEL B. STEPHENS & ASSOCIATES, INC.

Boring Log

Site	ENRON WT-1
Logged by	C. PIGMAN
Client/Project #	4231
Boring Number	SVE 9
Drilling Co.	EADES
Drilling Method	AIR ROTARY 6 1/8" BIT
Drill Rig	INGERSOLL RAND TH 75W
Date Started	10/5/95
Date Completed	10/6/95

Location Map



PID/FID Reading	Blow Counts	Sampling Device	Sample Recovery	Sample Interval	Sample Number	USCS Symbol	Depth (feet)	Soil Description/Remarks (Soil type, color, texture, grain size, sorting, roundness, plasticity, consistency, moisture content)
0.6				4-5		CALCAREOUS SS	5	SANDY LIMESTONE, GRAYISH ORANGE PINK (5YR 7/2 RCK) 35% SAND IN 65% CARBONATE MATRIX, SAND IS FINE GR, WELL SORTED W/ ROUNDED GR, MOD CONSOLIDATED, DRY
2.2				9-10			10	SAME AS ABOVE, SLIGHTLY SANDIER 40% SAND 60% CARBONATE
							R5	
2.7				14-15		CALCAREOUS SS	15	CALCAREOUS SANDSTONE, GRAYISH ORANGE PINK (5YR 7/2 RCK) VI FINE TO MED GR, POORLY SORTED, SUBANGULAR TO ROUNDED GR, MOD CONSOLIDATED, DRY 85% SAND IN 15% CARBONATE MATRIX
2.5				19-20			20	SAME AS ABOVE ONLY SLIGHTLY DARKER IN COLOR PALE RED (10R 6/2 RCK)
2.8				24-25			25	SANDSTONE, PALE REDDISH BROWN (10R 5/4 RCK) VI FINE TO MED GR, POORLY SORTED, SUBANGULAR TO ROUNDED GR, STRONGLY CONSOLIDATED, DRY,
2.9				29-30			30	SAME AS ABOVE, SLIGHTLY LIGHTER IN COLOR PALE RED (10R 6/2 RCK)
3.1				34-35		WHITE SS	35	SANDSTONE, PALE REDDISH BROWN (10R 5/4 RCK) VI FINE TO FINE GR, MOD SORTED, SUBROUNDED GR, STRONGLY CONSOLIDATED MOIST, SOME BEDS OF SILTST, & VI FINE GR SS, AT 35' ENCOUNTER WELL SORTED MEDIUM WHITE SS
2.8				39-40			40	SANDSTONE, MODERATE REDDISH BROWN (10R 4/6 RCK) VI FINE TO FINE GR, WELL SORTED, SUBROUNDED GR, STRONGLY CONSOLIDATED, MOIST
11.2				44-45			45	SAME AS ABOVE
							50	

DANIEL B. STEPHENS & ASSOCIATES, INC.

Boring Log

Site ENRON WT-1	Location Map: SEE PAGE 1
Logged by C. PIGMAN	Client/Project # 4231
Boring Number SVE 9	Drilling Co. EADES
Drilling Method AIR ROTARY 6 1/8" BIT	Drill Rig INGERSOLL RAND TH 75W
Date Started 10/5/95	Date Completed 10/6/95

PID/FID Reading	Blow Counts	Sampling Device	Sample Recovery	Sample Interval	Sample Number	USCS Symbol	Depth (feet)	Soil Description/Remarks (Soil type, color, texture, grain size, sorting, roundness, plasticity, consistency, moisture content)
4.2	GRAB CUTTINGS			49-50			50	SANDSTONE, MODERATE REDDISH BROWN (10R4/6) RCK, VF TO F GR MOD. SORTED SUBROUNDED GR., STRONGLY CONSOLIDATED MOIST
3.9	GRAB CUTTINGS			55-56			55 56	SAME AS ABOVE, MORE MOIST TO WET
								T.D. SVE 9 @ 56'

DBS&A Form No. 080 3/92

DANIEL B. STEPHENS & ASSOCIATES, INC.
ENVIRONMENTAL SCIENTISTS AND ENGINEERS

PHASE II ASSESSMENT
FORMER ENGINE ROOM DRAIN AND FILTER PIT AREA
WT-1 COMPRESSOR STATION

Prepared for

ENRON Operations Corp.

Environmental Affairs Department

Houston, Texas

November 8, 1995

6020 ACADEMY NE • SUITE 100 • ALBUQUERQUE, NM 87109 • (505) 822-9400

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EXECUTIVE SUMMARY

Daniel B. Stephens & Associates, Inc., was retained by ENRON Operations Corp. to conduct a Phase II assessment of soils and ground water underlying Transwestern Pipeline Company's WT-1 Compressor Station, located near Carlsbad, New Mexico. Previous environmental investigations have identified impacts to the soil and ground water underlying the former engine room drain and filter pits, located near the northern property boundary. Objectives of the Phase II investigation were to characterize the composition of the waste remaining in the former impoundments and to delineate the lateral and downgradient extent of impacts to the underlying perched ground water. The Phase II assessment was conducted during the period of September 11 through 14, 1995.

The site is underlain by the Quaternary-age Mescalero caliche and Gatuña Formation and the Triassic-age Santa Rosa sandstone. Perched ground water is present within the Santa Rosa sandstone approximately 50 feet below ground surface. The saturated thickness of the perched system ranges from 0 to approximately 10 feet; locally, ground water flows north-northwest. The perched system is underlain by approximately 350 to 550 feet of very fine-grained sandstones, siltstones, and shales of the Permian-age Dewey Lake Red Beds. In general, potable ground water is not present in the region.

During the course of the investigation, eight soil borings were drilled, monitor wells were installed within three of the borings, fluid levels were measured, and soil and ground-water samples were collected for laboratory analysis. Soil and ground-water samples were analyzed for select inorganic and organic constituents to determine if standards set by the U.S. Environmental Protection Agency (EPA), the New Mexico Oil Conservation Division, and/or the New Mexico Water Quality Control Commission (NMWQCC) were exceeded.

Sample data indicate that waste within the impoundments consists primarily of petroleum hydrocarbons containing small quantities of volatile organic compounds (VOCs). Total petroleum hydrocarbon (TPH) concentrations range from 19,000 to 280,000 mg/kg for the analyzed waste. No detectable concentrations of semivolatile organic compounds or polychlorinated biphenyls were present in the analyzed waste.

With the exception of TPH, benzene, and total BTEX (benzene, toluene, ethylbenzene, and xylene), no regulatory standards or guidance are presently in place for soil contaminants in the State of New Mexico. VOC concentrations were compared to EPA-proposed soil screening guidance and risk-based concentration tables. Based on observed concentrations and proposed EPA screening guidance, the primary VOCs of concern within the engine room drain pit are 1,1-dichloroethene, methylene chloride, tetrachloroethene, toluene, and 1,1,1-trichloroethane. Only trichloroethene concentrations in samples collected from the filter pit exceed the proposed soil screening guidance. Sample concentrations for the 17 analyzed elements are within the range reported in the existing literature for background metals, with the exception of elevated selenium and zinc concentrations in the filter pit.

The lateral extent of VOCs exceeding NMWQCC standards is bounded on-site by newly installed monitor wells MW-15 and MW-16 and downgradient by monitor well MW-14. Monitor well MW-14 is located approximately 350 feet north of the property boundary. The VOCs exceeding NMWQCC standards in one or more locations are benzene, 1,1-dichloroethane, 1,2-dichloroethane, 1,1-dichloroethene, and methylene chloride. Phase-separated hydrocarbons appear to be limited to the area near on-site well MW-2, located near the former filter pit. The inorganic chemical analyses of ground water from the newly installed monitor wells show that the NMWQCC standard is exceeded for total dissolved solids, chloride, and sulfate. These concentrations are consistent with background concentrations as represented by monitor well MW-4, located upgradient of the pits. In addition, monitor well MW-15 exceeds the NMWQCC standard for nitrate.

1. INTRODUCTION

ENRON Operations Corp. retained Daniel B. Stephens & Associates, Inc. (DBS&A), to conduct a Phase II assessment of soils and ground water underlying the northern portion of Transwestern Pipeline Company's (TPC's) WT-1 Compressor Station. The site is located approximately 30 miles east of the city of Carlsbad, New Mexico, along U.S. Highway 62/180 (Figure 1). The former engine room drain and filter pits (engine room pits), located along the northern fenceline, are the subject of the Phase II assessment. Figure 2 provides the general layout near the engine room pits, showing the location of liquid storage areas, monitor wells, soil vapor extraction well, and soil borings.

TPC has decommissioned the engine room pits by placing an impermeable cap over each pit, thereby eliminating direct infiltration of precipitation. However, previous environmental investigations have identified impacts to underlying soil and ground water resulting from former use of the impoundments (Metric Corporation, 1991; Brown & Root Environmental, 1993; DBS&A, 1995). The objectives of this Phase II investigation were to characterize the composition of the wastes that remain in the engine room pits and the areal extent of ground-water impacts.

The Phase II assessment was conducted during the period of September 11 through 14, 1995. DBS&A collected soil and ground-water samples for analysis of select inorganic and organic constituents to determine if standards set by the U.S. Environmental Protection Agency (EPA), the New Mexico Oil Conservation Division (OCD), and/or the New Mexico Water Quality Control Commission (NMWQCC) were exceeded. Specifically, the DBS&A Phase II assessment included the following work:

- Five additional soil borings were advanced within the former impoundments for waste characterization.
- Three monitor wells were installed for delineation of ground-water impacts.
- Fluid levels were measured to develop an updated potentiometric surface map for the perched ground-water system near the former engine room drain and filter pits.

- Soil samples were collected from each boring for field and/or laboratory analyses.

- Nine monitor wells were sampled, and the samples were analyzed for the presence of select inorganic and organic constituents.

- A survey was conducted to determine the location and elevations of each boring and monitor well drilled during the Phase II investigation.

This report presents the methods and results of the Phase II assessment. Section 2 provides a brief review of the regional hydrogeologic framework and a summary of previously completed environmental work. Section 3 describes the subsurface investigation, and Section 4 provides conclusions derived from the Phase II investigation.

2. SITE BACKGROUND

This section provides background information relevant to DBS&A's Phase II assessment. Section 2.1 provides a synopsis of the regional hydrogeologic framework based on previous literature reviews conducted by DBS&A (DBS&A, 1995); Section 2.2 describes the outcome of previous environmental investigations near the engine room pits.

2.1 Regional Hydrogeologic Framework

In general, potable ground water is not present in the region. The stratigraphic units of importance regarding the regional hydrogeologic framework are, in ascending order, (1) the Permian Dewey Lake Red Beds, (2) the Triassic Santa Rosa sandstone, and (3) the Quaternary Gatuña Formation and Mescalero caliche.

The Dewey Lake Red Beds consist of alternating thinly bedded sequences of reddish brown siltstones, shales, and very fine- to fine-grained sandstones. In the vicinity of the site, the formation ranges in thickness from approximately 350 to 550 feet. The formation impedes movement of perched water within the overlying Santa Rosa sandstone to the underlying evaporite-bearing rocks of Permian age.

Borings advanced near the engine room pits intersected sediments of the Mescalero caliche, and alternating sandstones, siltstones, and mudstones of the underlying Santa Rosa sandstone. Perched ground water is present within the Santa Rosa sandstone at depths of approximately 50 feet below ground surface (bgs). The saturated thickness of the perched system ranges from approximately 0 to 10 feet; locally, ground-water flows toward the north-northwest (Section 3.3). Previously and newly installed monitor wells at the site are completed within the perched ground-water zone.

2.2 Previous Environmental Investigations

The first investigation performed at the compressor station was performed by Metric Corporation in October 1991. Metric advanced a total of six soil borings to investigate subsurface conditions near the engine room pits, trash pit, and drain pit (Figures 1 and 2). Metric determined that

actionable hydrocarbon-impacted soils were limited primarily to the area near the engine room pits shown in Figure 2.

During the period of August through October 1992, Brown & Root Environmental advanced 28 soil borings and installed 3 monitor wells (MW-1 through MW-3 on Figure 2) to delineate the extent of hydrocarbon impacts identified by Metric. Soil and ground-water samples were analyzed for total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene, and xylene (BTEX), and additional select organic compounds and metals. Brown & Root determined that actionable soil contamination is limited to the area immediately surrounding the engine room pits, phase-separated hydrocarbons (PSH) are present in the vicinity of MW-2, and ground-water impacts extend off-site to the north.

A supplemental environmental investigation was conducted by DBS&A during the period of November 15 through December 1, 1994. During the course of this investigation, two temporary ground-water sampling borings, five monitor wells (MW-4 through MW-8, on Figure 2), and one dual-completion soil vapor extraction well were installed. The objective of the supplemental investigation was to determine the areal extent of the subsurface impacts identified along the northern fence line, to characterize the hydrogeologic system, and to evaluate future remedial options. The DBS&A investigation determined that the extent of actionable soil contamination covers a roughly elliptical area of approximately 0.7 acres, centered on the pits. The areal extent of ground water exceeding NMWQCC standards was not completely defined during the 1994 investigation.

3. SUBSURFACE INVESTIGATION

The Phase II subsurface investigation characterized residual wastes within the engine room pits with respect to potentially hazardous constituents and the areal extent of perched ground water exceeding the NMWQCC standards. Section 3.1 describes drilling and sampling procedures followed during the investigation. Sections 3.2 and 3.3 provide a discussion of the residual waste and ground-water characterization, respectively.

3.1 Drilling and Sampling Procedures

During the investigation, DBS&A advanced two borings in the engine room drain pit and three borings in the filter pit and installed three monitor wells near the perimeter of the dissolved phase contaminant plume. Drilling was performed by Eades Drilling Company of Hobbs, New Mexico, using an Ingersoll Rand TH-75W air-rotary drilling rig. Drilling equipment and sampling devices were steam cleaned and inspected by DBS&A personnel prior to beginning each boring. In addition, all sampling equipment was decontaminated prior to each use by washing with Liquinox® detergent and rinsing with deionized water.

3.1.1 Soil Sampling

As each borehole was advanced, core-barrel samples were collected at 10-foot intervals for geologic logging. In addition, drill cuttings were inspected at 5-foot intervals to aid in logging. Appendix A contains the lithologic logs produced for each boring and, where applicable, the corresponding well construction diagrams.

Soil samples collected during drilling were tested for the presence of volatile organic compounds (VOCs) with an organic vapor analyzer equipped with a photoionization detector (PID). Field PID measurements were used to determine the presence of contaminated soils above guidelines (those with PID readings greater than 100 parts per million volume) as described by OCD (1993). Drill cuttings generated during the investigation were stockpiled on-site, and one composite sample was collected to determine proper disposal.

Samples collected for chemical analysis were contained in 250-mL glass jars and placed in an ice-filled cooler for shipment to Core Laboratories in Denver, Colorado. Chemical analysis of the soil samples was performed using standard laboratory protocols from *Test Methods for Evaluating Solid Waste* (U.S. EPA, 1986).

Following sample collection, each boring was either plugged and abandoned with a cement/ bentonite slurry or completed as a ground-water monitoring well.

3.1.2 Well Installation

Monitor well borings (MW-14, MW-15, and MW-16) were drilled to approximately 10 feet below the water table, or the bottom of the perched ground-water zone, whereupon a 2-inch-diameter monitor well was constructed and installed. Monitor wells were constructed with 15 feet of 2-inch, 0.010-inch machine-slotted polyvinyl chloride (PVC) screen, approximately 45 feet of flush-threaded 2-inch PVC blank casing, and 17 feet of 12-20 silica sand filter pack. Bentonite seals were emplaced on top of the filter packs, followed by a cement-bentonite grout to the ground surface. Surface completions consisted of 8-inch-diameter flush-grade vaults set within concrete.

Borings and monitor wells installed during the Phase II investigation were surveyed relative to the northeast property corner (for horizontal control) and mean sea level by John W. West Engineering Co. of Hobbs, New Mexico. An updated summary of monitor well completion information for the wells located near the engine room pits is provided in Table 1.

3.1.3 Ground-Water Sampling

Ground-water samples were collected from each monitor well with the exception of monitor well MW-2, which contains PSH, and MW-3, which was essentially dry. Prior to sampling, the depth to water was measured. The well was then bailed until approximately three casing volumes were purged or until the well was dry. During purging, field parameters (pH, temperature, and electrical conductivity) were measured and recorded every half casing volume. Purged ground water was contained in 55-gallon drums to be appropriately disposed of by TPC upon receipt of analytical results. Ground-water samples were collected using dedicated, disposable polyethylene bailers.

All monitor well samples were analyzed for VOCs (EPA method 8240). In addition, samples collected from the new wells were analyzed for indicator inorganic compounds. Samples were shipped in ice-filled chests to Core Laboratories for analyses. Appendix B contains the Core Laboratories report with the supporting quality assurance and chain-of-custody documents for all soil and water samples submitted for analysis.

3.2 Waste Characterization

Soil borings were drilled within each pit at the locations shown on Figure 2. In order to chemically characterize the wastes, a single sample of the most highly impacted soil was selected from each boring for laboratory analysis. The most highly impacted sample was selected based on visual examination and field headspace screening with a PID. Undisturbed sediments were encountered at approximately 8 to 12 bgs within the backfilled pits. Lithologic logs are provided in Appendix A.

Samples were analyzed by Core Laboratories for TPH (EPA method 418.1), VOCs (EPA method 8240), semivolatile organic compounds (SVOCs) (EPA method 8270), polychlorinated biphenyls (PCBs) (EPA method 8080), metals (EPA methods 6010 and 7471), cyanide (EPA method 9010), and sulfide (EPA method 9030). Table 2 summarizes analytical data for detected compounds in samples collected from the pits. Copies of the Core Laboratories analytical reports and the corresponding quality assurance/quality control data are given in Appendix B.

As indicated in Table 2, waste within the impoundments consists primarily of petroleum hydrocarbons containing small quantities of VOCs. TPH concentrations range from 19,000 to 280,000 mg/kg for the analyzed waste. No detectable concentrations of SVOCs or PCBs were present in the analyzed samples.

With the exception of TPH, benzene, and total BTEX, no regulatory standards or guidance are presently in place for soil contaminants in the State of New Mexico. Therefore, EPA-proposed soil screening guidance and risk-based concentration tables were consulted and are provided for the detected compounds in Table 2 (U.S. EPA, 1994). Based on observed concentrations and the proposed EPA screening guidance, the primary VOCs of concern within the former engine room drain pit are 1,1-dichloroethene (1,1-DCE), methylene chloride, tetrachloroethene, toluene,

and 1,1,1-trichloroethane. Only TCE concentrations exceed the proposed soil screening guidance for samples collected from the filter pit.

Only 12 of the 17 metals analyzed for were detected in the samples. Each element was within the reported range for background metals concentration reported in existing literature (Schacklette and Boerngen, 1984), with the exception of selenium and zinc concentrations in the filter pit.

3.3 Ground-Water Characterization

Fluid levels were measured to develop an updated potentiometric surface map for the perched ground-water system near the former engine room drain and filter pits (Figure 3). The water-level elevations indicate that ground water underneath the pits flows north-northwest toward newly installed monitor well MW-14. The most recently measured fluid levels are summarized in Table 1.

Table 3 summarizes the constituents detected in ground water near the engine room pits. The NMWQCC standard is also given in each table for comparison. Based on analyses of VOCs by EPA method 8240, the compounds that exceeded the NMWQCC standards are benzene, 1,1-dichloroethane (DCA), 1,2-DCA, 1,1-DCE, and methylene chloride.

As shown in Table 3, ground-water samples from monitor wells MW-1, MW-5, and MW-8 contain VOC concentrations exceeding the NMWQCC standards for one or more of the above compounds. Low concentrations of other organic compounds are detected in ground water but are below NMWQCC standards. Figures 4 and 5 depict the distribution of select VOCs in the ground water beneath the engine room pits. The concentration of detected compounds are similar to the those measured during the November 1994 sampling event (DBS&A, 1995).

The inorganic chemical analyses indicated that ground-water samples from each newly installed monitor well exceed the NMWQCC standards for total dissolved solids, chloride, and sulfate (Table 3). Also, the ground-water sample from monitor well MW-15 exceeds the NMWQCC standard for nitrate. Background concentrations of total dissolved solids, chloride, and sulfate (as represented by upgradient monitor well MW-4 [DBS&A, 1995]) are similar to those measured during this investigation. With the exception of elevated nitrate concentrations in monitor well

MW-15, the concentration of dissolved inorganic compounds in ground water appear to be natural in origin.

Based on the chemical analysis performed to date, it appears that the areal extent of ground-water impacts have been defined. The estimated downgradient extent of ground-water impacts, as defined by the exceedance of NMWQCC standards, is approximately 250 feet beyond the northern property boundary and is bounded downgradient by newly installed monitor well MW-14.

4. CONCLUSIONS

This report summarizes the September 11 through 14, 1995, Phase II subsurface investigation undertaken by DBS&A at Transwestern Pipeline Company's WT-1 Compressor Station. The Phase II investigation characterized the composition of the wastes that remain in the engine room pits and determined the areal extent of dissolved-phase impacts to the underlying perched ground water. The following conclusions can be drawn from the Phase II investigation:

- The waste within the engine room pits consists primarily of petroleum hydrocarbons containing small quantities of VOCs. The primary VOCs of concern in the waste impoundments are 1,1-DCE, methylene chloride, tetrachloroethene, 1,1,1-trichloroethane, and TCE. No detectable concentrations of SVOCs or PCBs were present in the analyzed waste. Of the 17 analyzed metals, only one sample collected from the filter pit contained any metal concentrations above background concentrations as reported in the literature. The two metals detected above background concentrations are selenium and zinc.

- In ground water, the organic compounds that exceed the NMWQCC ground-water standards include benzene, 1,1-DCA, 1,2-DCA, 1,1-DCE, and methylene chloride. Samples from monitor wells MW-1, MW-5, and MW-8 contained VOCs at concentrations exceeding the NMWQCC standards for one or more of the above compounds. Inorganic chemical analyses indicate that samples from each monitor well, including the background monitor wells, naturally exceed the NMWQCC ground-water standards for total dissolved solids, chloride, and sulfate.

- The lateral extent of VOCs exceeding the NMWQCC standards is bounded on-site by monitor wells MW-15 and MW-16 and downgradient by monitor well MW-14. PSH is present near monitor well MW-2, located near the northern fenceline. Ground-water impacts appear to extend approximately 250 feet downgradient of the northern property boundary..

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FIGURES

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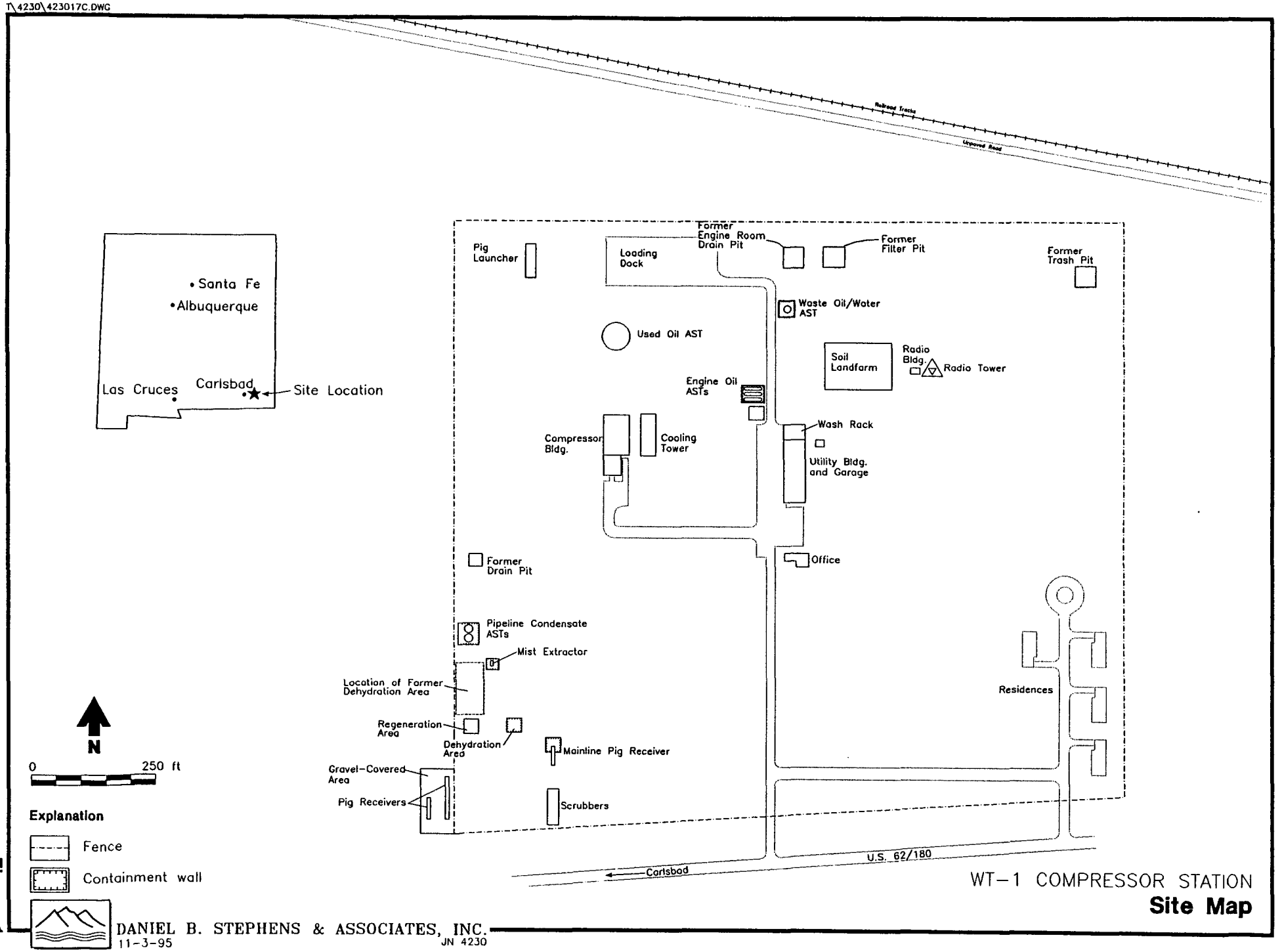

WT-1 COMPRESSOR STATION

Site Map

Figure 1

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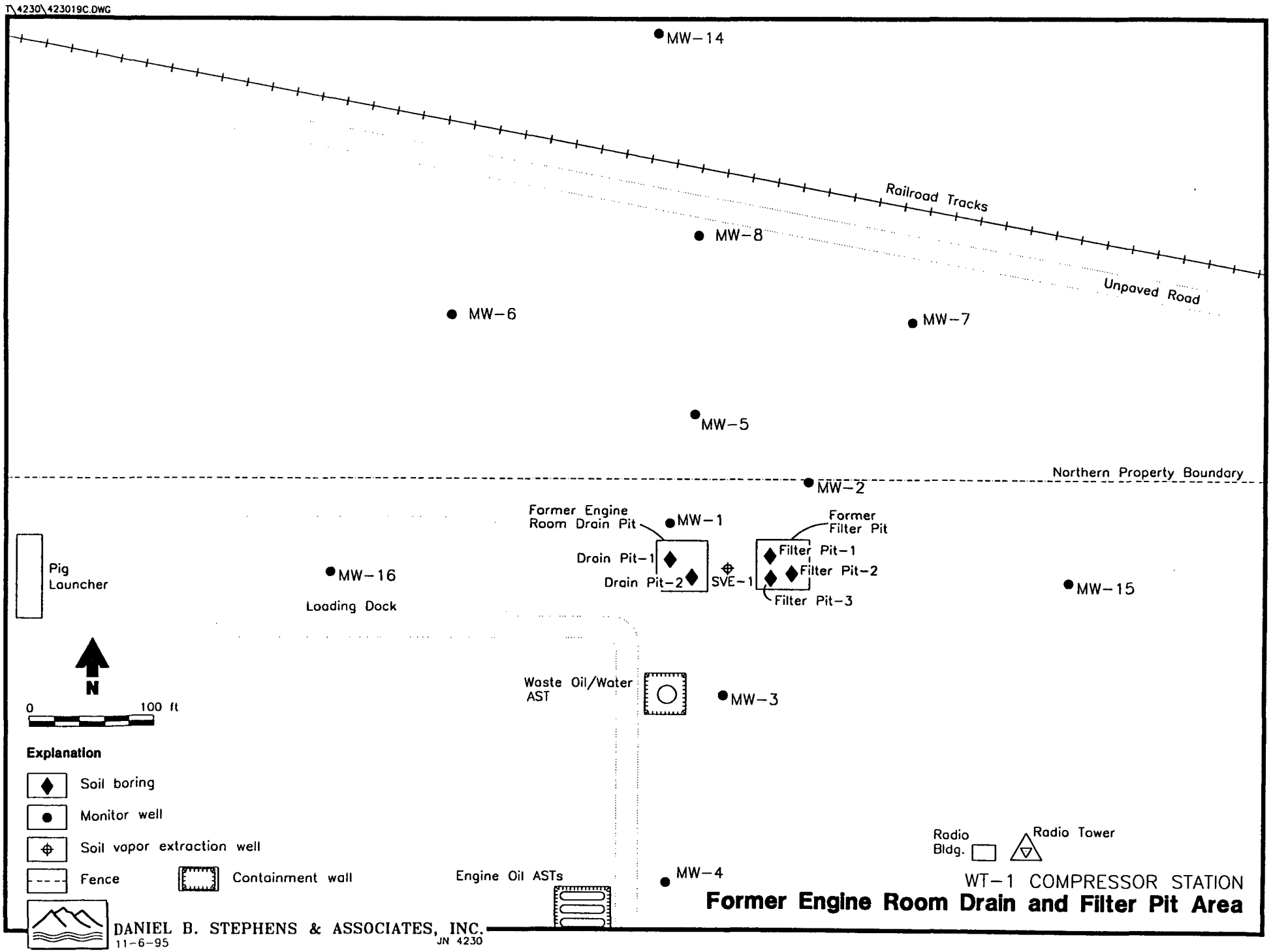
T\4230\423019C.DWG
MW-14
Railroad Tracks
MW-8
Unpaved Road
MW-6
MW-7
MW-5
Northern Property Boundary
MW-2
Former Engine Room Drain Pit
MW-1
Former Filter Pit
Drain Pit-1
Filter Pit-1
Drain Pit-2
SVE-1
Filter Pit-2
Filter Pit-3
Pig Launcher
MW-16
Loading Dock
MW-15
N
0
100 ft
Waste Oil/Water AST
MW-3
Explanation
Soil boring
Monitor well
Soil vapor extraction well
Fence
Containment wall
Engine Oil ASTs
MW-4
Radio Bldg.
Radio Tower
WT-1 COMPRESSOR STATION
Former Engine Room Drain and Filter Pit Area
DANIEL B. STEPHENS & ASSOCIATES, INC.
11-6-95
JN 4230

Figure 2

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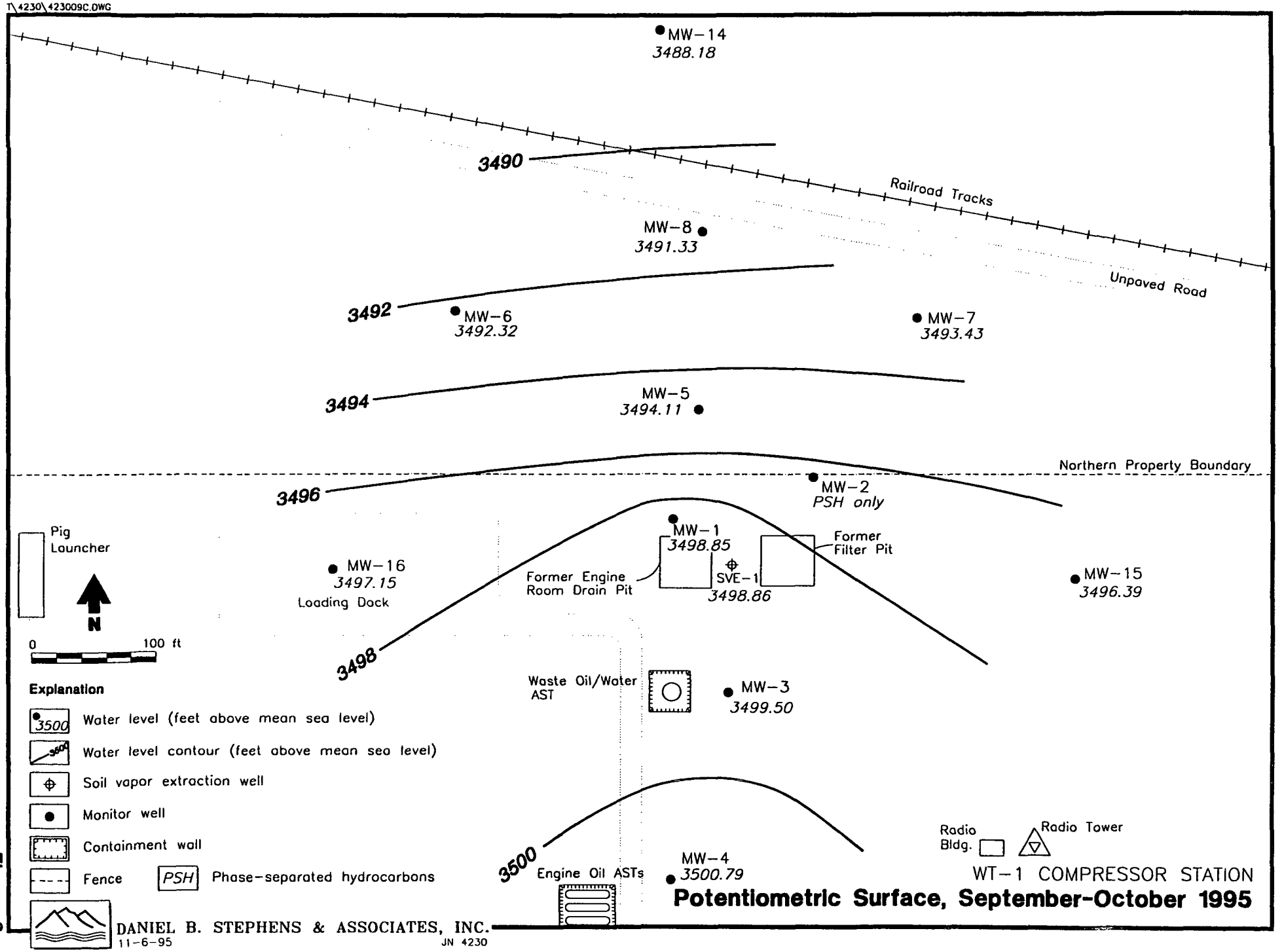

WT-1 COMPRESSOR STATION

Potentiometric Surface, September-October 1995

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11-6-95

JN 4230

Figure 3

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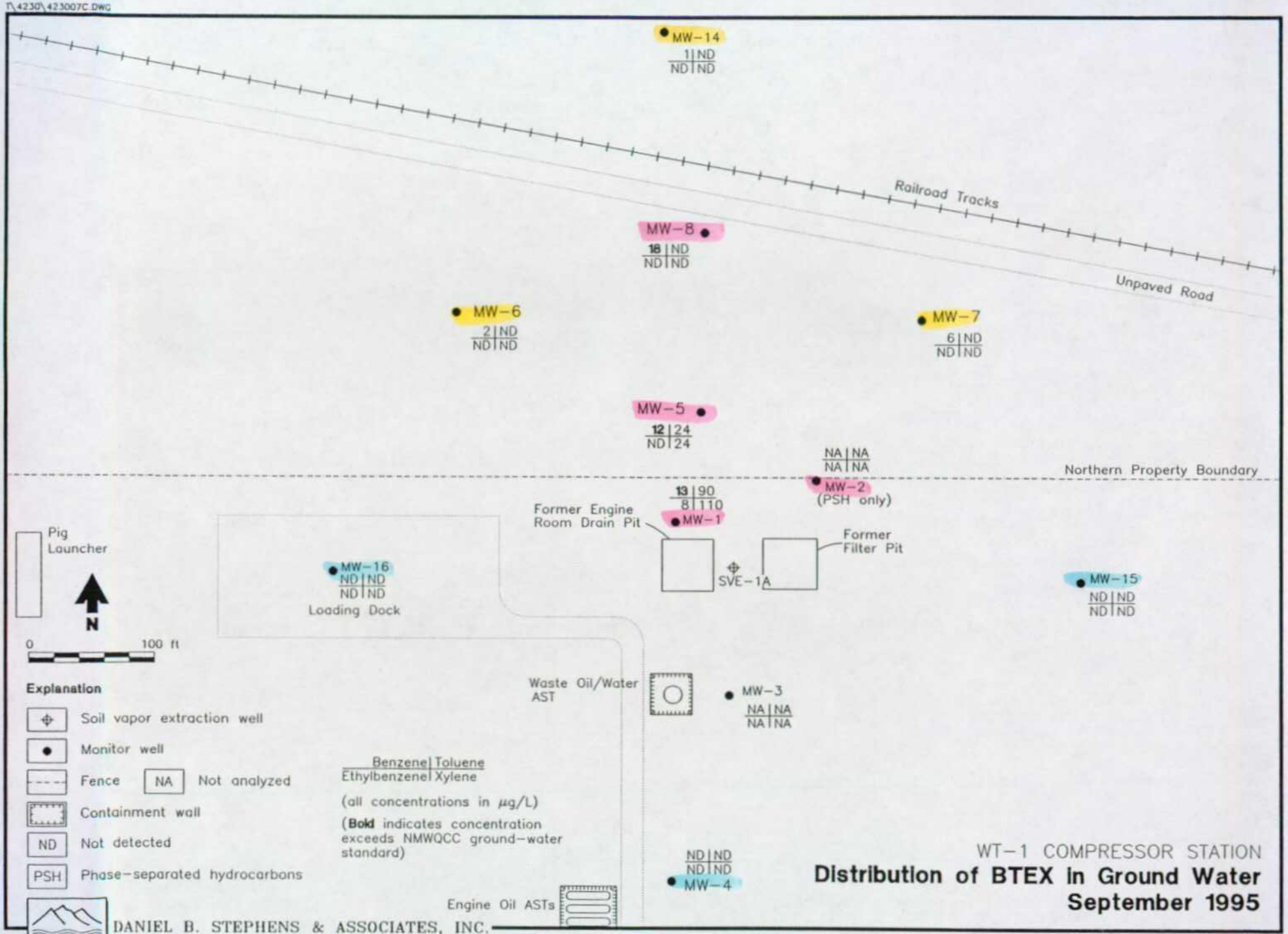

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11-1-95
JN 4230

WT-1 COMPRESSOR STATION

Distribution of BTEX in Ground Water
September 1995

Figure 4

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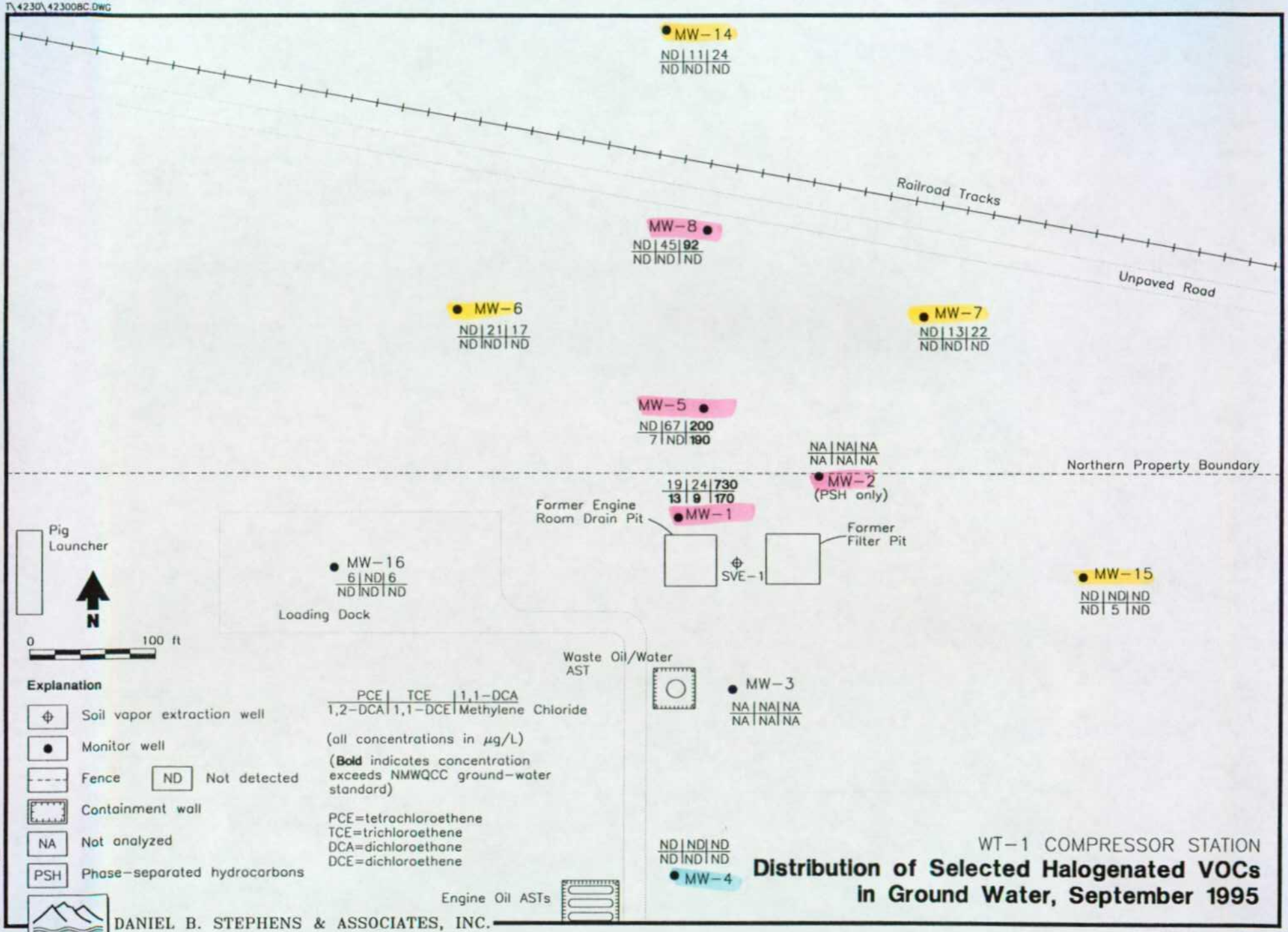


WT-1 COMPRESSOR STATION

Distribution of Selected Halogenated VOCs in Ground Water, September 1995

DANIEL B. STEPHENS & ASSOCIATES, INC.
11-6-95
JN 4230

Figure 5

TABLES

Table 1. Monitor Well Locations and September 1995 Water Level Elevation Data WT-1 Compressor Station

Monitor Well [a]	Location		Date of Completion	Measuring Point [c] Elevation (fmsl)	Depth to Water from Measuring Point [c] (ft)	Water Level Elevation (fmsl)	Total Boring Depth (ft bgs)	Screened Interval (ft bgs)	Top of Silica Sand (ft bgs)
	South [b] (ft)	West [b] (ft)							
MW-1 [d]	36.2	661.8	08/12/92	3,547.67	48.82	3,498.85	53.5	43.5-53.5	41.0
MW-2 [d]	2.8	552.0	09/01/92	3,546.28	PSH only	NA	50.0	40.0-50.0	38.0
MW-3 [d]	174.5	619.3	08/28/92	3,548.99	49.49	3,499.50	48.5	38.5-48.5	35.5
MW-4	322.5	664.2	11/29/94	3,548.29	47.50	3,500.79	80.0	43.5-58.5	41.0
MW-5	-52.4	642.0	11/29/94	3,543.59	49.48	3,494.11	59.6	44.6-59.6	41.0
MW-6	-132.1	834.3	11/28/94	3,543.29	50.97	3,492.32	61.0	46.0-61.0	42.5
MW-7	-129.5	470.6	11/21/94	3,541.97	48.54	3,493.43	56.0	40.0-55.0	37.0
MW-8	-195.3	639.1	11/20/94	3,541.47	50.14	3,491.33	59.0	44.0-59.0	42.0
MW-14	-353.3	671.4	09/11/95	3,539.71	51.53	3,488.18	61.0	45.5-60.5	43.0
MW-15	84.1	345.5	09/12/95	3,542.82	46.43	3,496.39	60.5	43.0-58.0	40.5
MW-16	76.1	930.0	09/12/95	3,546.01	48.86	3,497.15	61.0	45.0-60.0	42.0

Survey conducted by John W. West Engineering, Hobbs, NM; all measurements were made in November 1994.

[a] Refer to Figure 2 for locations
[b] South and west coordinates relative to northeast property corner
[c] Measuring point is top of PVC casing
[d] From Brown & Root Environmental, February 1993

fmsl = Feet above mean sea level
bgs = Below ground surface
PSH = Phase-separated hydrocarbons
NA = Not applicable

Table 2. Summary of Detected Compounds for Pit Soil Samples
WT-1 Compressor Station

Analyte	Soil Screening Level[a]	Risk-Based Concentration[b]	Sample No. (Sample Date)			
			Drain Pit-1 @12-17' (09/13/95)	Drain Pit-2 @12-17' (09/13/95)	Filter Pit-1 @4-8' (09/14/95)	Filter Pit-3 @4-8' (09/14/95)
Volatile Organic Compounds (mg/kg) by EPA Method 8240						
Acetone	8	7,800	7.50 J	0.8	0.4	0.2
Carbon disulfide	14	7,800	0.04	<0.02	<0.005	<0.005
Chloroethane	33	31,000	<0.05	<0.05	0.04	<0.010
1,1-Dichloroethane (1,1-DCA)	11	7,800	0.8	<0.02	0.051	0.016
1,1-Dichloroethene (1,1-DCE)	0.03	1.1	0.03	<0.02	<0.005	<0.005
Ethylbenzene	5	7,800	0.08	0.04	0.05	0.006
Methylene chloride (dichloromethane)	0.01	85	0.17	<0.02	<0.005	<0.005
4-Methyl-2-pentanone (MIBK)	NA	NA	<0.2	<0.2	0.05	<0.05
Tetrachloroethene (PCE)	0.04	12	10	0.38	<0.005	<0.005
Toluene	5	16,000	0.1	0.03	0.015	<0.005
1,1,1-Trichloroethane (1,1,1-TCA)	0.9	7,000	3.6	<0.02	<0.005	<0.005
Trichloroethene (TCE)	0.02	58	<0.02	<0.02	0.048	<0.005
Xylene(s)	74	160,000	0.55	0.26	0.29	0.03

Notes: This table lists only those analytes that were detected in at least one of the pit soil samples.
Core Laboratories results for VOCs are converted from µg/kg to mg/kg.

[a] Soil screening level for protection of ground water based on a dilution-attenuation factor of 10 (EPA, 1994).
[b] Risk-based concentration for soil ingestion at residential sites (EPA, 1995).
J = Estimated value less than practical quantitation limit
NA = Not available

Table 2. Summary of Detected Compounds for Pit Soil Samples
WT-1 Compressor Station
Page 2 of 3

Analyte	Soil Screening Level[a]	Risk-Based Concentration[b]	Sample No. (Sample Date)			
			Drain Pit-1 @12-17' (09/13/95)	Drain Pit-2 @12-17' (09/13/95)	Filter Pit-1 @4-8' (09/14/95)	Filter Pit-3 @4-8' (09/14/95)
Semivolative Organic Compound (µg/kg) by EPA Method 8270) *(No analytes detected)*						
Polychlorinated Biphenyls (µg/kg) by EPA Method 8080 *(No analytes detected)*						
Metals (mg/kg) by EPA Methods 6010 and 7471 (for Mercury)						
Aluminum (Al)	NA	78,000	4,480	3,830	1,230	1,200
Antimony (Sb)	NA	31	<10	<10	<10	90
Arsenic (As)	15	23	<5	<5	6	46
Barium (Ba)	32	5,500	280	330	118	146
Cadmium (Cd)	6	39	<0.5	<0.5	2.3	8.4
Chromium (Cr)	19	390	7	7	22	31
Cobalt (Co)	NA	4,700	<3	<3	<3	14
Copper (Cu)	NA	2,900	8	6	103	86
Lead (Pb)	NA	NA	9	<5	66	27
Mercury (Hg)	3	23	0.40	0.24	0.12	0.05
Nickel (Ni)	21	1,600	<4	<4	<4	18

Notes: This table lists only those analytes that were detected in at least one of the pit soil samples.
Core Laboratories results for VOCs are converted from µg/kg to mg/kg.

[a] Soil screening level for protection of ground water based on a dilution-attenuation factor of 10 (EPA, 1994).
[b] Risk-based concentration for soil ingestion at residential sites (EPA, 1995).
J = Estimated value less than practical quantitation limit
NA = Not available

Table 2. Summary of Detected Compounds for Pit Soil Samples
WT-1 Compressor Station
Page 3 of 3

Analyte	Soil Screening Level[a]	Risk-Based Concentration[b]	Sample No. (Sample Date)			
			Drain Pit-1 @12-17' (09/13/95)	Drain Pit-2 @12-17' (09/13/95)	Filter Pit-1 @4-8' (09/14/95)	Filter Pit-3 @4-8' (09/14/95)
Selenium (Se)	3	390	<10	<10	10	130
Silver (Ag)	NA	390	<1	<1	<1	8
Thallium (Tl)	0.4	NA	<10	<10	20	260
Tin (Sn)	NA	47,000	<5	<5	22	66
Vanadium (V)	NA	550	38	30	<5	21
Zinc (Zn)	42,000	23,000	59	59	121	607
Miscellaneous (mg/kg) by EPA Methods 9030 and 418.1, respectively						
Total sulfide	NA	NA	840	1,260	2,430	1,430
Total petroleum hydrocarbons	NA	NA	55,000	19,000	280,000	72,000

Notes: This table lists only those analytes that were detected in at least one of the pit soil samples.
Core Laboratories results for VOCs are converted from µg/kg to mg/kg.

[a] Soil screening level for protection of ground water based on a dilution-attenuation factor of 10 (EPA, 1994).
[b] Risk-based concentration for soil ingestion at residential sites (EPA, 1995).
J = Estimated value less than practical quantitation limit
NA = Not available

Table 3. Summary of Detected Compounds for Ground-Water Samples
WT-1 Compressor Station

Analyte	NMWQCC Standard	Monitor Well (Sample Date)								
		MW-1 (09/14/95)	MW-4 (09/12/95)	MW-5 (09/12/95)	MW-6 (09/12/95)	MW-7 (09/12/95)	MW-8 (09/13/95)	MW-14 (09/13/95)	MW-15 (09/14/95)	MW-16 (09/14/95)
Volatile Organic Compounds (µg/L) by EPA Method 8240										
Acetone	None	2,000	<100	1,000	<100	<100	<100	<100	<100	<100
Benzene	10	**13**	<1	**12**	2	6	**18**	1	<1	<1
Methyl ethyl ketone (2-butanone)	None	400	<100	200	<100	<100	<100	<100	<100	<100
Chloroethane	None	<10	<10	100	<10	<10	<10	<10	<10	<10
Chloroform (trichloromethane)	100	<5	6	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethane (1,1-DCA)	25	**730**	<5	**200**	17	22	**92**	24	<5	6
1,2-Dichloroethane (ethylene chloride)	10	**13**	<5	7	<5	<5	<5	<5	<5	<5
1,1-Dichloroethene (1,1-DCE)	5	**9**	<5	<5	<5	<5	<5	<5	5	<5
Ethylbenzene	750	8	<5	<5	<5	<5	<5	<5	<5	<5
Methylene chloride (dichloromethane)	100	**170**	<5	**190**	<5	<5	<5	<5	<5	<5
4-Methyl-2-pentanone (MIBK)	None	1,800	<50	520	<50	<50	<50	<50	<50	<50
Tetrachloroethene (PCE)	20	19	<5	<5	<5	<5	<5	<5	<5	6
Toluene	750	90	<5	24	<5	<5	<5	<5	<5	<5
1,1,1-Trichloroethane (1,1,1-TCA)	60	57	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethene (TCE)	100	24	<5	67	21	13	45	11	<5	<5
Xylene(s)	620	110	<5	24	<5	<5	<5	<5	<5	<5
Metals (mg/L) by EPA Methods 6010 and 7470 (for Mercury)										
Arsenic	0.1	NA	NA	NA	NA	NA	NA	<0.05	<0.05	<0.05

NA = Not analyzed
Bold values highlight concentrations above NMWQCC standards.
NMWQCC = New Mexico Water Quality Control Commission

Table 3. Summary of Detected Compounds for Ground-Water Samples
WT-1 Compressor Station

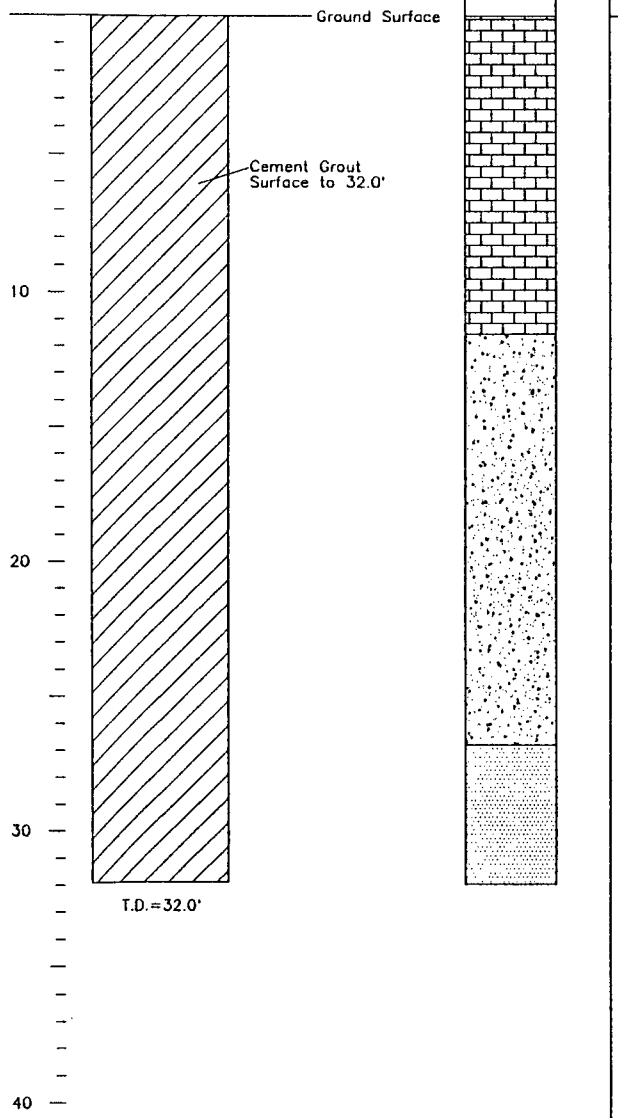
Analyte	NMWQCC Standard	Monitor Well (Sample Date)								
		MW-1 (09/14/95)	MW-4 (09/12/95)	MW-5 (09/12/95)	MW-6 (09/12/95)	MW-7 (09/12/95)	MW-8 (09/13/95)	MW-14 (09/13/95)	MW-15 (09/14/95)	MW-16 (09/14/95)
Barium	1.0	NA	NA	NA	NA	NA	NA	0.14	0.02	0.22
Cadmium	0.01	NA	NA	NA	NA	NA	NA	<0.005	<0.005	<0.005
Chromium	0.05	NA	NA	NA	NA	NA	NA	<0.01	<0.01	0.02
Lead	0.05	NA	NA	NA	NA	NA	NA	<0.05	<0.05	<0.05
Mercury	0.002	NA	NA	NA	NA	NA	NA	<0.0002	<0.0002	0.0003
Selenium	0.05	NA	NA	NA	NA	NA	NA	<0.1	<0.1	<0.1
Silver	0.05	NA	NA	NA	NA	NA	NA	<0.01	0.01	<0.01
Indicator Parameters (mg/L) (EPA methods shown in parentheses)										
Alkalinity, Total as CaCO3 (310.1)	None	NA	NA	NA	NA	NA	NA	444	286	410
Calcium (6010)	None	NA	NA	NA	NA	NA	NA	276	291	320
Chloride (325.2)	250	NA	NA	NA	NA	NA	NA	**515**	**442**	**624**
Magnesium (6010)	None	NA	NA	NA	NA	NA	NA	147	137	188
Nitrate + nitrate as N (353.2)	10	NA	NA	NA	NA	NA	NA	1.91	**13.2**	2.62
Potassium (6010)	None	NA	NA	NA	NA	NA	NA	7.0	6.5	9.7
Sodium (6010)	None	NA	NA	NA	NA	NA	NA	170	206	211
Sulfate	600	NA	NA	NA	NA	NA	NA	**700**	**900**	**850**
Total Dissolved Solids	1,000	NA	NA	NA	NA	NA	NA	**2,360**	**2,500**	**2,570**

NA = Not analyzed
Bold values highlight concentrations above NMWQCC standards.
NMWQCC = New Mexico Water Quality Control Commission

APPENDIX A

LITHOLOGIC LOGS AND WELL COMPLETION DIAGRAMS

4230\4230DP-1.DWG



Graphic Log	PID Reading (ppm)	Sampling Device	Comments and Lithology
	7.3	split spoon	5 – Caliche backfill
			8–9 – Light hydrocarbon odor, no cuttings return since 5 feet
	85.5	grab	10 – Black staining, hydrocarbon odor
	76.3	split spoon	12–17 – Sand, fine–grained, saturated with oils
	96.9	core	17–22 – Sand, loose, saturated with oils
	165	core	22–27 – Sand, fine–grained, black with oil; at 26 feet – fine to medium grained sandstone, hydrocarbon odor, moderately to well cemented
	45.6	core	27–32 – Sandstone, dark brown, hydrocarbon odor, well cemented, micaceous

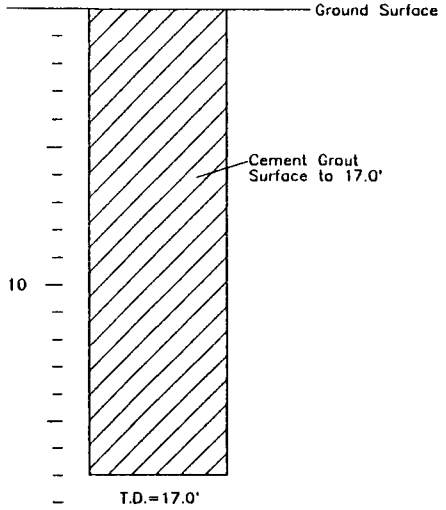
Hydrologists: Marley
Driller: Eades Drilling
Date Completed: 9/13/94

Drilling Method: Air Rotary/Hollow Stem Auger
Bit Diameter: 8.75 In.

WT–1 COMPRESSOR STATION
Boring Log: Drain Pit-1

DANIEL B. STEPHENS & ASSOCIATES, INC.
11-1-95
JN 4230

4230\4230DP-2.DWG



Graphic Log	PID Reading (ppm)	Sampling Device	Comments and Lithology
		grab	0–8 – Caliche backfill and cobbles
		grab	8–10 – Oily waste, strong hydrocarbon odor
	75.9	core	12–17 – Sand, fine-grained, stained black, dry to moist

Hydrologists: Marley
Driller: Eades Drilling
Date Completed: 9/13/94

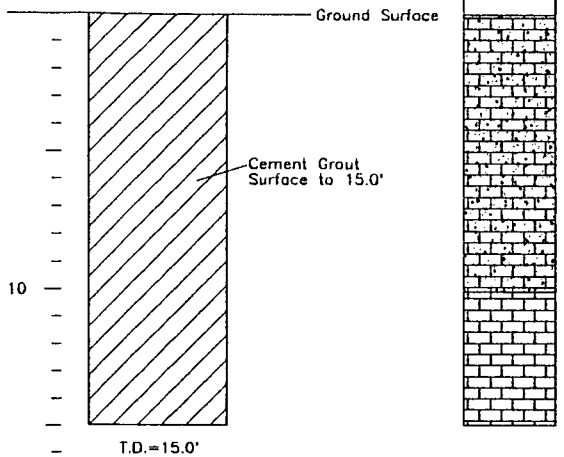
Drilling Method: Air Rotary/Hollow Stem Auger
Bit Diameter: 8.75 In.

WT-1 COMPRESSOR STATION

Boring Log: Drain Pit-2

DANIEL B. STEPHENS & ASSOCIATES, INC.
11-1-95 JN 4230

4230\4230FP-1.DWG



Graphic Log	PID Reading (ppm)	Sampling Device	Comments and Lithology
		grab	0–4 – Sandy caliche
		grab	4 – Black oily waste
	60.5	core	5–10 – Oily waste, filter paper, strong odor; bottom of pit at approximately 8 feet
		core	10–15 – Caliche, very fine– to fine–grained, moderately cemented, dry to damp

Hydrologists: Marley
Driller: Eades Drilling
Date Completed: 9/14/94

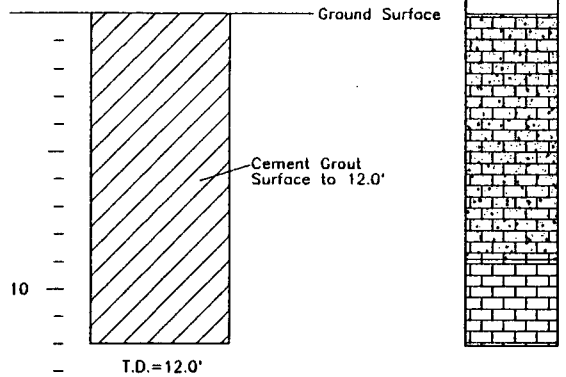
Drilling Method: Air Rotary/Hollow Stem Auger
Bit Diameter: 8.75 In.

WT–1 COMPRESSOR STATION

Boring Log: Filter Pit-1

DANIEL B. STEPHENS & ASSOCIATES, INC.
11–1–95
JN 4230

4230\4230FP-2.DWG



Graphic Log	PID Reading (ppm)	Sampling Device	Comments and Lithology
	5	grab	0–9 – Sandy caliche, tan, very fine– to fine–grained
	170	core	9–12 – Caliche, tan, very fine– to fine–grained, poorly cemented; at 11 feet stained grey with hydrocarbons, strong odor; appears to be eastern edge of original pit

Hydrologists: Marley
Driller: Eades Drilling
Date Completed: 9/14/94

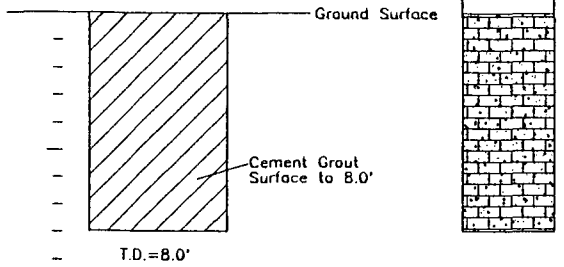
Drilling Method: Air Rotary/Hollow Stem Auger
Bit Diameter: 8.75 In.

WT–1 COMPRESSOR STATION

Boring Log: Filter Pit-2

DANIEL B. STEPHENS & ASSOCIATES, INC.
11-1-95
JN 4230

4230\4230FP-3.DWG



Graphic Log	PID Reading (ppm)	Sampling Device	Comments and Lithology
		grab	0–3 – Sandy caliche fill
		grab	3 – Black oiley filter paper
	6.1	core	5–8 – Filter paper, poor recovery

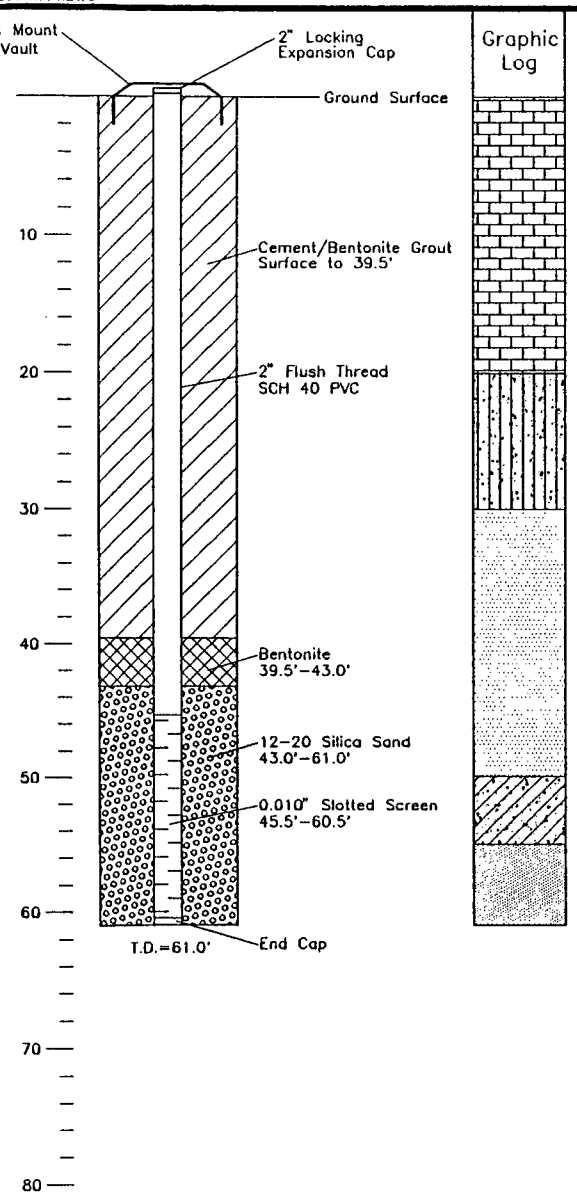
Hydrologists: Marley
Driller: Eades Drilling
Date Completed: 9/14/94

Drilling Method: Air Rotary/Hollow Stem Auger
Bit Diameter: 8.75 In.

WT-1 COMPRESSOR STATION
Boring Log: Filter Pit-3

DANIEL B. STEPHENS & ASSOCIATES, INC.
11-1-95
JN 4230

4230\4230MW14.DWG



PID Reading (ppm)	Sampling Device	Comments and Lithology
9.7	grab	5 – Caliche; pale red (2.5 YR 7/3); very fine-grained; well sorted; subrounded; moderately cemented; dry; calcareous matrix (reacts to HCl); no odor
11.5	split spoon	10 – Caliche; pink (7.5 YR 7/3); very fine-grained; well sorted; subrounded; moderate to well cemented; dry
0.0	grab	15 – Same as above
12.7	split spoon	20 – Silty sand; reddish brown (2.5 YR 6/6); very fine-grained to fine-grained; <10% silt; moderately sorted; subangular to subrounded; poorly cemented; dry
10.8	grab	25 – Silty sand; same as above
13.0	split spoon	30 – Silty sandstone; weak red (10 R 5/4); very fine-grained to fine-grained; <15% silt; well sorted; subangular to subrounded; moderately cemented; dry
9.6	grab	35 – Same as above; weak red (2.5 YR 6/4)
	split spoon	40 – Same as above, except strongly consolidated, contains mica flakes, fine-grained to medium-grained
9.9	grab	45 – Silty sand; weak red (10 R 4/4); very fine-grained to fine-grained; moderately sorted; subangular to subrounded; weakly cemented; dry; thin laminations
	split spoon	50 – Clayey sandstone; weak red (10 R 4/4); very fine-grained; poorly sorted; medium plasticity; weakly to strongly cemented; mica flakes; moist; thinly laminated
	grab	55 – Sand; dark red (2.5 YR 4/6, wet); fine-grained to medium-grained; well sorted; subrounded; weakly cemented; loose; wet
	split spoon	60 – same as at 55'

Note: Background PID readings for headspace range from 6 to 12. PID sensitive to water vapor at low end of scale.

Hydrologists: Marley/Hovda
Driller: Eades Water Well
Date Completed: 9/11/95

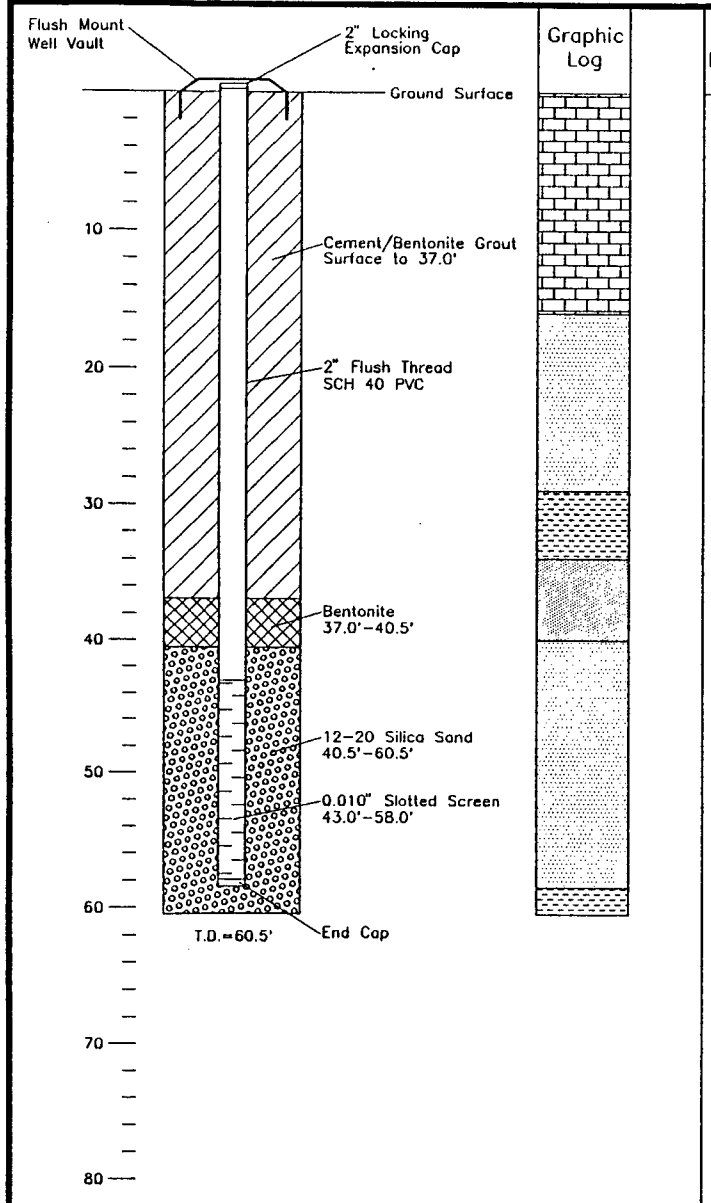
Drilling Method: Air Rotary
Bit Diameter: 6.5 In. O.D.

WT-1 COMPRESSOR STATION

Well Log: MW-14

DANIEL B. STEPHENS & ASSOCIATES, INC.
11-1-95 JN 4230

4230\4230MW15.DWG



PID Reading (ppm)	Sampling Device	Comments and Lithology
9.5	grab	5 – Caliche; pale red (2.5 YR 7/3); fine-grained; approximately 70% sand, 30% carbonate matrix; well sorted; subrounded; poorly cemented; moderate reaction to HCl; dry
4.5	split spoon	10 – Same as above, except increase in cementation
6.1	grab	15 – Same as above, except pale red (2.5 YR 7/4); at 16', color changes to dark red (10 R 3/6) sand; fine-grained; well sorted; subrounded; dry
6.5	split spoon	20 – Sandstone; dusky red (10 R 3/4); very fine-grained to fine-grained; well sorted; subangular to subrounded; moderate to well cemented; reacts to HCl; thinly laminated; dry
5.0	grab	25 – Same as above, except weak red (10 R 4/3)
4.5	split spoon	30 – Mudstone; weak red (10 R 4/4); very fine-grained with gray reduction spots; high plasticity when wetted; friable; moderately to poorly cemented; dry to damp
2.0	grab	35 – Sand; weak red (10 R 5/3); very fine-grained to fine-grained; <5% silt; well sorted; subangular to subrounded; loose; dry
3.4	split spoon	40 – Sandstone, weak red (10 R 4/3); fine-grained; <5% silt; well sorted; micaceous; subangular to subrounded; strongly cemented (non carbonate); dry
2.7	grab	45 – Sand; weak red (10 R 4/4); fine-grained; well sorted; subangular to subrounded; loose; dry
2.7	split spoon	50 – Sandstone; dusky red (10 R 3/4, wet); fine-grained to medium-grained; well sorted; subrounded; thinly laminated; moderate cementation; wet; at 53 cuttings are dry to moist
1.3	split spoon	55 – Same as at 50'
1.5	split spoon	60 – Sandy siltstone; weak red (10 R 4/4); poorly cemented; friable; no carbonate; dry
		Note: PID reads 7.1 for deionized water in plastic Ziploc.

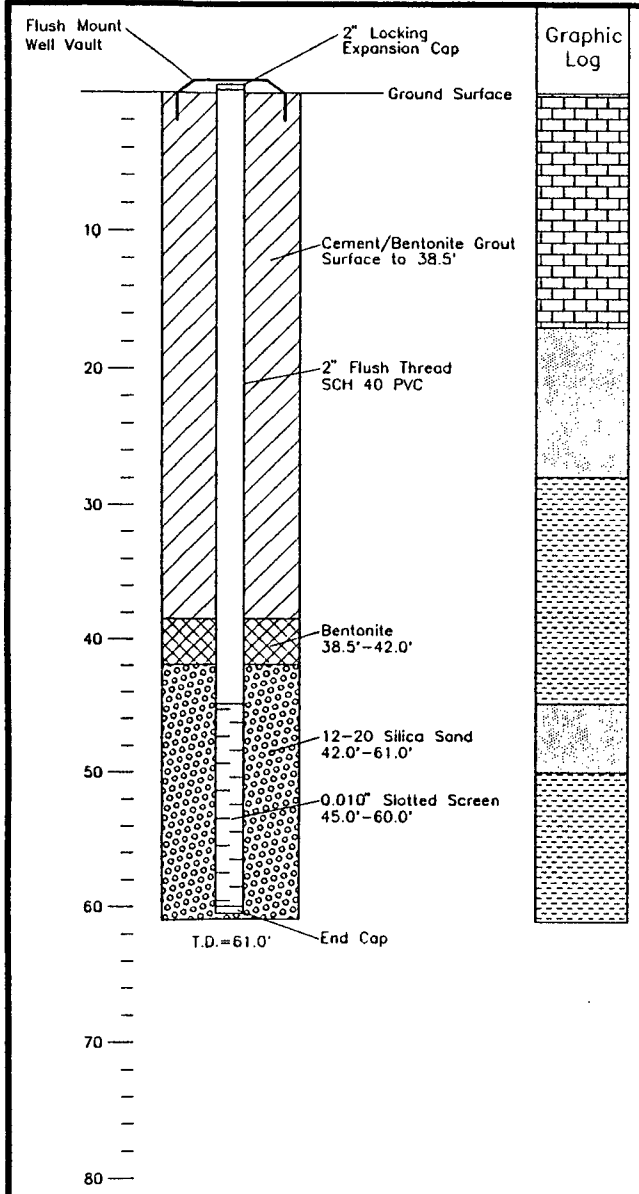
Hydrologists: Marley
Driller: Eades Water Well
Date Completed: 9/12/95

Drilling Method: Air Rotary
Bit Diameter: 6.5 In. O.D.

DANIEL B. STEPHENS & ASSOCIATES, INC.
11-1-95
JN 4230

WT-1 COMPRESSOR STATION
Well Log: MW-15

4230\4230MW16.DWG



Graphic Log	PID Reading (ppm)	Sampling Device	Comments and Lithology
	3.2	grab	5 – Caliche; pinkish white (7.5 YR 8/2); fine-grained; poorly sorted; moderately cemented; carbonate cement; dry
	3.0	split spoon	10 – Same as above, except more consolidated
	4.0	grab	15 – Caliche; pink (5 YR 7/3); very fine-grained to fine-grained; carbonate cement; dry 17 – Color change
	4.7	split spoon	20 – Sand; weak red (10 R 5/4); fine-grained; <5% silt; well sorted; subangular to subrounded; weak carbonate cement; dry
	5.0	grab	25 – Same as above
	5.5	split spoon	30 – Siltstone; weak red (10 R 5/4); very fine-grained; moderately cemented with carbonate, minor mudstone; dry
	2.0	grab	35 – Silty sand; weak red (10 R 4/4); very fine-grained; approximately 25% silt; loose; dry
	2.0	split spoon	40 – Siltstone; weak red (10 R 4/4); very fine-grained; minor carbonate, thinly lamenated; poorly cemented; damp
	1.4	grab	45 – Sand; weak red (10 R 4/4); very fine-grained to fine-grained; well sorted; subrounded; loose; dry
	1.3	split spoon	50 – Silty sandstone; weak red (10 R 4/4); very fine-grained; moderately to poorly cemented; no carbonate; thinly laminated; moist
	1.1	split spoon	55 – Sandstone; weak red (10 R 4/4); very fine-grained to medium-grained; moderately sorted; subangular to subrounded; thinly lamenated; moist to wet; no carbonate; at 57' color changes to pinkish gray (7.5 YR 7/2); cuttings are moist to dry
	0.8	split spoon	60 – Mudstone; weak red (10 R 4/4); micaceous; minor silt; friable; moderately to poorly consolidated; thinly laminated; dry to damp

Hydrologists: Marley
Driller: Eades Water Well
Date Completed: 9/12/95

Drilling Method: Air Rotary
Bit Diameter: 6.5 In. O.D.

WT-1 COMPRESSOR STATION

Well Log: MW-16

DANIEL B. STEPHENS & ASSOCIATES, INC.
10-10-95
JN 4230

APPENDIX B

ANALYTICAL RESULTS

Summary of Analytical Results

Summary of Analytical Results for Soil Samples
WT-1 Compressor Station
Page 1 of 7

Analyte	Sample No. (Sample Date)			
	Drain Pit 1 @12-17 ft (09/13/95)	Drain Pit 2 @12-17 ft (09/13/95)	Filter Pit 1 @4-8 ft (09/14/95)	Filter Pit 3 @4-8 ft (09/14/95)
Volatile Organic Compounds (µg/kg) by EPA Method 8240				
Acetone	**7,500 J**	**800**	**400**	**200**
Acetonitrile	<500	<500	<100	<100
Acrolein (propenal)	<200	<200	<50	<50
Acrylonitrile	<100	<100	<20	<20
Allyl chloride	<100	<100	<20	<20
Benzene	<20	<20	<5	**22**
Benzyl chloride	<20	<20	<5	<5
Bromobenzene	<20	<20	<5	<5
Bromochloromethane	<20	<20	<5	<5
Bromodichloromethane	<20	<20	<5	<5
Bromoform (tribromomethane)	<20	<20	<5	<5
Bromomethane	<50	<50	<10	<10
Methyl ethyl ketone (2-butanone)	<500	<500	<100	<100
Carbon disulfide	**40**	<20	<5	<5
Carbon tetrachloride	<20	<20	<5	<5
Chlorobenzene	<20	<20	<5	<5
Chloroethane	<50	<50	**40**	<10
2-Chloroethylvinyl ether	<20	<20	<5	<5
Chloroform (trichloromethane)	<20	<20	<5	<5
Chloromethane (methyl chloride)	<20	<20	<5	<5
2-Chloro-1,3-butadiene (chloroprene)	<20	<20	<5	<5
Dibromochloromethane (chlorodibromomethane)	<20	<20	<5	<5
1,2-Dibromo-3-chloropropane (DBCP)	<20	<20	<5	<5
1,2-Dibromoethane (EDB)	<20	<20	<5	<5
Dibromomethane (methylene bromide)	<20	<20	<5	<5
Trans-1,4-dichloro-2-butene	<200	<200	<50	<50
Dichlorodifluoromethane (Freon 12)	<50	<50	<10	<10
1,1-Dichloroethane (1,1-DCA)	**800**	<20	**51**	**16**
1,2-Dichloroethane (ethylene chloride)	<20	<20	<5	<5

J = Estimated value less than practical quantitation limit

Bold values highlight concentrations above reporting limits.

Summary of Analytical Results for Soil Samples
WT-1 Compressor Station
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Analyte	Sample No. (Sample Date)			
	Drain Pit 1 @12-17 ft (09/13/95)	Drain Pit 2 @12-17 ft (09/13/95)	Filter Pit 1 @4-8 ft (09/14/95)	Filter Pit 3 @4-8 ft (09/14/95)
1,1-Dichloroethene (1,1-DCE)	**30**	<20	<5	<5
Cis-1,2-dichloroethene	<20	<20	**7**	<5
Trans-1,2-dichloroethene	<20	<20	<5	<5
1,2-Dichloropropane (propylene chloride)	<20	<20	<5	<5
Cis-1,3-dichloropropene	<20	<20	<5	<5
Trans-1,3-dichloropropene	<20	<20	<5	<5
Ethylbenzene	**80**	**40**	**50**	**6**
Ethyl methacrylate	<20	<20	<5	<5
2-Hexanone	<20	<20	<5	<5
Iodomethane	<20	<20	<5	<5
Isobutyl alcohol	<200	<200	<50	<50
Methylacrylonitrile	<200	<200	<50	<50
Methylene chloride (dichloromethane)	**170**	<20	<5	<5
Methyl methacrylate	<20	<20	<5	<5
4-Methyl-2-pentanone (MIBK)	<200	<200	**50**	<50
Pentachloroethane	<20	<20	<5	<5
Propionitrile	<500	<500	<100	<100
Styrene	<20	<20	<5	<5
1,1,1,2-Tetrachloroethane (1,1,1,2-PCA)	<20	<20	<5	<5
1,1,2,2-Tetrachloroethane (1,1,2,2-PCA)	<20	<20	<5	<5
Tetrachloroethene (PCE)	**10,000**	**380**	<5	<5
Toluene	**100**	**30**	**15**	<5
1,1,1-Trichloroethane (1,1,1-TCA)	**3,600**	<20	<5	<5
1,1,2-Trichloroethane	<20	<20	<5	<5
Trichloroethene (TCE)	<20	<20	**48**	<5
Trichlorofluoromethane (Freon 11)	<50	<50	<10	<10
1,2,3-Trichloropropane	<20	<20	<5	<5
Vinyl acetate	<200	<200	<50	<50
Vinyl chloride	<50	<50	<10	<10
Xylene(s)	**550**	**260**	**290**	**30**

Bold values highlight concentrations above reporting limits.

Summary of Analytical Results for Soil Samples
WT-1 Compressor Station
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Analyte	Sample No. (Sample Date)			
	Drain Pit 1 @12-17 ft (09/13/95)	Drain Pit 2 @12-17 ft (09/13/95)	Filter Pit 1 @4-8 ft (09/14/95)	Filter Pit 3 @4-8 ft (09/14/95)
Semivolatile Organic Compounds (µg/kg) by EPA Method 8270				
Acenaphthene	<16,000	<16,000	<82,000	<33,000
Acenaphthylene	<16,000	<16,000	<82,000	<33,000
Acetophenone (methyl phenyl ketone)	<16,000	<16,000	<82,000	<33,000
4-Aminobiphenyl	<16,000	<16,000	<82,000	<33,000
Aniline	<16,000	<16,000	<82,000	<33,000
Anthracene	<16,000	<16,000	<82,000	<33,000
Benzidine	<82,500	<82,500	<412,000	<165,000
Benzoic acid	<82,500	<82,500	<412,000	<165,000
Benzo(a)anthracene	<16,000	<16,000	<82,000	<33,000
Benzo(b)fluoranthene	<16,000	<16,000	<82,000	<33,000
Benzo(j)fluoranthene	<16,000	<16,000	<82,000	<33,000
Benzo(k)fluoranthene	<16,000	<16,000	<82,000	<33,000
Benzo(g,h,i)perylene	<16,000	<16,000	<82,000	<33,000
Benzo(a)pyrene	<16,000	<16,000	<82,000	<33,000
Benzyl alcohol (phenyl methanol)	<33,000	<33,000	<160,000	<66,000
Bis(2-chloroethoxy)methane	<16,000	<16,000	<82,000	<33,000
Bis(2-chloroethyl)ether	<16,000	<16,000	<82,000	<33,000
Bis(2-chloroisopropyl)ether	<16,000	<16,000	<82,000	<33,000
Bis(2-ethylhexyl)phthalate	<16,000	<16,000	<82,000	<33,000
4-Bromophenyl phenyl ether	<16,000	<16,000	<82,000	<33,000
Butyl benzyl phthalate	<16,000	<16,000	<82,000	<33,000
4-Chloroaniline	<16,000	<16,000	<82,000	<33,000
Chlorobenzilate	<16,000	<16,000	<82,000	<33,000
1-Chloronaphthalene	<16,000	<16,000	<82,000	<33,000
2-Chloronaphthalene	<16,000	<16,000	<82,000	<33,000
4-Chloro-3-methylphenol	<16,000	<16,000	<82,000	<33,000
2-Chlorophenol	<16,000	<16,000	<82,000	<33,000
4-Chlorophenyl phenyl ether	<16,000	<16,000	<82,000	<33,000
Chrysene	<16,000	<16,000	<82,000	<33,000

Bold values highlight concentrations above reporting limits.

Summary of Analytical Results for Soil Samples
WT-1 Compressor Station
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Analyte	Sample No. (Sample Date)			
	Drain Pit 1 @12-17 ft (09/13/95)	Drain Pit 2 @12-17 ft (09/13/95)	Filter Pit 1 @4-8 ft (09/14/95)	Filter Pit 3 @4-8 ft (09/14/95)
Diallate	<16,000	<16,000	<82,000	<33,000
Dibenz(a,j)acridine	<16,000	<16,000	<82,000	<33,000
Dibenz(a,h)anthracene	<16,000	<16,000	<82,000	<33,000
Dibenzofuran	<16,000	<16,000	<82,000	<33,000
Di-n-butyl phthalate	<16,000	<16,000	<82,000	<33,000
1,2-Dichlorobenzene	<16,000	<16,000	<82,000	<33,000
1,3-Dichlorobenzene	<16,000	<16,000	<82,000	<33,000
1,4-Dichlorobenzene	<16,000	<16,000	<82,000	<33,000
3,3-Dichlorobenzidine	<16,000	<16,000	<82,000	<33,000
2,4-Dichlorophenol	<16,000	<16,000	<82,000	<33,000
2,6-Dichlorophenol	<16,000	<16,000	<82,000	<33,000
Diethyl phthalate	<16,000	<16,000	<82,000	<33,000
p-Dimethylaminoazobenzene	<16,000	<16,000	<82,000	<33,000
Phosphorodithionic acid (Dimethoate)	<33,000	<33,000	<160,000	<66,000
7,12-Dimethylbenz(a)anthracene	<16,000	<16,000	<82,000	<33,000
α-,α-Dimethylphenethylamine	<16,000	<16,000	<82,000	<33,000
2,4-Dimethylphenol	<16,000	<16,000	<82,000	<33,000
Dimethyl phthalate	<16,000	<16,000	<82,000	<33,000
2-Methyl-4,6-dinitrophenol	<82,500	<82,500	<412,000	<165,000
2,4-Dinitrophenol	<82,500	<82,500	<412,000	<165,000
2,4-Dinitrotoluene	<16,000	<16,000	<82,000	<33,000
2,6-Dinitrotoluene	<16,000	<16,000	<82,000	<33,000
Dinoseb (DNBP)	<16,000	<16,000	<82,000	<33,000
Di-n-octyl phthalate	<16,000	<16,000	<82,000	<33,000
Diphenylamine	<16,000	<16,000	<82,000	<33,000
1,2-Diphenylhydrazine	<16,000	<16,000	<82,000	<33,000
Disulfoton	<16,000	<16,000	<82,000	<33,000
Ethyl methane sulfonate	<16,000	<16,000	<82,000	<33,000
Fluoranthene	<16,000	<16,000	<82,000	<33,000
Fluorene	<16,000	<16,000	<82,000	<33,000

Bold values highlight concentrations above reporting limits.

Summary of Analytical Results for Soil Samples
WT-1 Compressor Station
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Analyte	Sample No. (Sample Date)			
	Drain Pit 1 @12-17 ft (09/13/95)	Drain Pit 2 @12-17 ft (09/13/95)	Filter Pit 1 @4-8 ft (09/14/95)	Filter Pit 3 @4-8 ft (09/14/95)
Hexachlorobenzene	<16,000	<16,000	<82,000	<33,000
Hexachlorobutadiene	<16,000	<16,000	<82,000	<33,000
Hexachlorocyclopentadiene	<16,000	<16,000	<82,000	<33,000
Hexachloroethane (perchloroethane)	<16,000	<16,000	<82,000	<33,000
Hexachlorophene	<160,000	<160,000	<820,000	<330,000
Hexachloropropene	<16,000	<16,000	<82,000	<33,000
Indeno(1,2,3-cd)pyrene	<16,000	<16,000	<82,000	<33,000
Isodrin	<16,000	<16,000	<82,000	<33,000
Isophorone	<16,000	<16,000	<82,000	<33,000
Isosafrole	<16,000	<16,000	<82,000	<33,000
Kepone	<82,500	<82,500	<412,000	<165,000
Methapyrilene	<16,000	<16,000	<82,000	<33,000
3-Methylcholanthrene	<16,000	<16,000	<82,000	<33,000
Methyl methane sulfonate	<16,000	<16,000	<82,000	<33,000
2-Methylnaphthalene	<16,000	<16,000	<82,000	<33,000
3&4-Methylphenol (m&p-cresol)	<16,000	<16,000	<82,000	<33,000
2-Methylphenol (o-cresol)	<16,000	<16,000	<82,000	<33,000
Naphthalene	<16,000	<16,000	<82,000	<33,000
1,4-Naphthoquinone	<16,000	<16,000	<82,000	<33,000
1-Naphthylamine	<16,000	<16,000	<82,000	<33,000
2-Naphthylamine	<16,000	<16,000	<82,000	<33,000
2-Nitroaniline (o-Nitroaniline)	<82,500	<82,500	<412,000	<165,000
3-Nitroaniline (m-Nitroaniline)	<82,500	<82,500	<412,000	<165,000
4-Nitroaniline (p-Nitroaniline)	<82,500	<82,500	<412,000	<165,000
Nitrobenzene	<16,000	<16,000	<82,000	<33,000
2-Nitrophenol	<16,000	<16,000	<82,000	<33,000
4-Nitrophenol	<82,500	<82,500	<412,000	<165,000
4-Nitroquinoline-1-oxide	<16,000	<16,000	<82,000	<33,000
n-Nitrosodi-n-butylamine	<16,000	<16,000	<82,000	<33,000
n-Nitrosodiethylamine	<16,000	<16,000	<82,000	<33,000

Bold values highlight concentrations above reporting limits.

Summary of Analytical Results for Soil Samples
WT-1 Compressor Station

Analyte	Sample No. (Sample Date)			
	Drain Pit 1 @12-17 ft (09/13/95)	Drain Pit 2 @12-17 ft (09/13/95)	Filter Pit 1 @4-8 ft (09/14/95)	Filter Pit 3 @4-8 ft (09/14/95)
n-Nitrosomethylethylamine	<16,000	<16,000	<82,000	<33,000
n-Nitrosomorpholine	<16,000	<16,000	<82,000	<33,000
n-Nitrosodimethylamine	<16,000	<16,000	<82,000	<33,000
n-Nitrosodiphenylamine	<16,000	<16,000	<82,000	<33,000
n-Nitrosodi-n-propylamine	<16,000	<16,000	<82,000	<33,000
n-Nitrosopiperidine	<16,000	<16,000	<82,000	<33,000
n-Nitrosopyrolidine	<16,000	<16,000	<82,000	<33,000
5-Nitro-o-toluidine	<16,000	<16,000	<82,000	<33,000
Ethyl parathion	<16,000	<16,000	<82,000	<33,000
Pentachlorobenzene	<16,000	<16,000	<82,000	<33,000
Pentachloronitrobenzene	<16,000	<16,000	<82,000	<33,000
Pentachlorophenol	<82,500	<82,500	<412,000	<165,000
Phenacetin	<16,000	<16,000	<82,000	<33,000
Phenanthrene	<16,000	<16,000	<82,000	<33,000
Phenol (carbolic acid)	<16,000	<16,000	<82,000	<33,000
p-Phenylenediamine	<16,000	<16,000	<82,000	<33,000
Phorate	<16,000	<16,000	<82,000	<33,000
2-Picoline	<16,000	<16,000	<82,000	<33,000
Pronamide	<16,000	<16,000	<82,000	<33,000
Pyridine (azabenzene)	<16,000	<16,000	<82,000	<33,000
Pyrene	<16,000	<16,000	<82,000	<33,000
Safrole	<16,000	<16,000	<82,000	<33,000
1,2,4,5-Tetrachlorobenzene	<16,000	<16,000	<82,000	<33,000
2,3,4,6-Tetrachlorophenol	<16,000	<16,000	<82,000	<33,000
o-Toluidine	<16,000	<16,000	<82,000	<33,000
1,2,4-Trichlorobenzene	<16,000	<16,000	<82,000	<33,000
2,4,5-Trichlorophenol	<16,000	<16,000	<82,000	<33,000
2,4,6-Trichlorophenol	<16,000	<16,000	<82,000	<33,000
0,0,0-Triethyl phosphorothioate	<16,000	<16,000	<82,000	<33,000
1,3,5-Trinitrobenzene	<16,000	<16,000	<82,000	<33,000

Bold values highlight concentrations above reporting limits.

Summary of Analytical Results for Soil Samples
WT-1 Compressor Station
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Analyte	Sample No. (Sample Date)			
	Drain Pit 1 @12-17 ft (09/13/95)	Drain Pit 2 @12-17 ft (09/13/95)	Filter Pit 1 @4-8 ft (09/14/95)	Filter Pit 3 @4-8 ft (09/14/95)
PCBs (µg/kg) by EPA Method 8080				
PCB-1016 (Aroclor-1016)	<170	<170	<170	<170
PCB-1221 (Aroclor-1221)	<170	<170	<170	<170
PCB-1232 (Aroclor-1232)	<170	<170	<170	<170
PCB-1242 (Aroclor-1242)	<170	<170	<170	<170
PCB-1248 (Aroclor-1248)	<170	<170	<170	<170
PCB-1254 (Aroclor-1254)	<170	<170	<170	<170
PCB-1260 (Aroclor-1260)	<170	<170	<170	<170
PCB-1262 (Aroclor-1262)	<170	<170	<170	<170
PCB-1268 (Aroclor-1268)	<170	<170	<170	<170
Metals (mg/kg) by EPA Methods 6010 and 7471 (for Mercury)				
Aluminum (Al)	**4,480**	**3,830**	**1,230**	**1,200**
Antimony (Sb)	<10	<10	<10	**90**
Arsenic (As)	<5	<5	**6**	**46**
Barium (Ba)	**280**	**330**	**118**	**146**
Beryllium (Be)	<0.5	<0.5	<0.5	<0.5
Cadmium (Cd)	<0.5	<0.5	**2.3**	**8.4**
Chromium (Cr)	**7**	**7**	**22**	**31**
Cobalt (Co)	<3	<3	<3	**14**
Copper (Cu)	**8**	**6**	**103**	**86**
Lead (Pb)	**9**	<5	**66**	**27**
Mercury (Hg)	**0.40**	**0.24**	**0.12**	**0.05**
Nickel (Ni)	<4	<4	<4	**18**
Selenium (Se)	<10	<10	**10**	**130**
Silver (Ag)	<1	<1	<1	**8**
Thallium (Tl)	<10	<10	**20**	**260**
Tin (Sn)	<5	<5	**22**	**66**
Vanadium (V)	**38**	**30**	<5	**21**
Zinc (Zn)	**59**	**59**	**121**	**607**
Miscellaneous (mg/kg) by EPA Methods 9010, 9030, and 418.1, respectively				
Total cyanide	<0.4	<0.4	<0.4	<0.4
Total sulfide	**840**	**1,260**	**2,430**	**1,430**
Total petroleum hydrocarbons	**55,000**	**19,000**	**280,000**	**72,000**

Bold values highlight concentrations above reporting limits.

Summary of Analytical Results for Ground-Water Samples
WT-1 Compressor Station
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Analyte	Monitor Well (Sample Date)								
	MW-1 (09/14/95)	MW-4 (09/12/95)	MW-5 (09/12/95)	MW-6 (09/12/95)	MW-7 (09/12/95)	MW-8 (09/13/95)	MW-14 (09/13/95)	MW-15 (09/14/95)	MW-16 (09/14/95)
Volatile Organic Compounds (µg/L) by EPA Method 8240									
Acetone	**2,000**	<100	**1,000**	<100	<100	<100	<100	<100	<100
Benzene	**13**	<1	**12**	**2**	**6**	**18**	**1**	<1	<1
Bromodichloromethane	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform (tribromomethane)	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromomethane	<10	<10	<10	<10	<10	<10	<10	<10	<10
Methyl ethyl ketone (2-butanone)	**400**	<100	**200**	<100	<100	<100	<100	<100	<100
Carbon disulfide	<5	<5	<5	<5	<5	<5	<5	<5	<5
Carbon tetrachloride	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorobenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroethane	<10	<10	**100**	<10	<10	<10	<10	<10	<10
2-Chloroethylvinyl ether	<10	<10	<10	<10	<10	<10	<10	<10	<10
Chloroform (trichloromethane)	<5	**6**	<5	<5	<5	<5	<5	<5	<5
Chloromethane (methyl chloride)	<10	<10	<10	<10	<10	<10	<10	<10	<10
Dibromochloromethane (chlorodibromomethane)	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethane (1,1-DCA)	**730**	<5	**200**	**17**	**22**	**92**	**24**	<5	**6**
1,2-Dichloroethane (ethylene chloride)	**13**	<5	**7**	<5	<5	<5	<5	<5	<5
1,1-Dichloroethene (vinylidene chloride)	**9**	<5	<5	<5	<5	<5	<5	**5**	<5
Trans-1,2-dichloroethene	<5	<5	<5	<5	<5	<5	<5	<5	<5

NA = Not analyzed
Bold values highlight concentrations above reporting limits.

Summary of Analytical Results for Ground-Water Samples
WT-1 Compressor Station
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Analyte	Monitor Well (Sample Date)								
	MW-1 (09/14/95)	MW-4 (09/12/95)	MW-5 (09/12/95)	MW-6 (09/12/95)	MW-7 (09/12/95)	MW-8 (09/13/95)	MW-14 (09/13/95)	MW-15 (09/14/95)	MW-16 (09/14/95)
1,2-Dichloropropane (propylene chloride)	<5	<5	<5	<5	<5	<5	<5	<5	<5
Cis-1,3-dichloropropene	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trans-1,3-dichloropropene	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene	**8**	<5	<5	<5	<5	<5	<5	<5	<5
2-Hexanone	<50	<50	<50	<50	<50	<50	<50	<50	<50
Methylene chloride (dichloromethane)	**170**	<5	**190**	<5	<5	<5	<5	<5	<5
4-Methyl-2-pentanone (MIBK)	**1,800**	<50	**520**	<50	<50	<50	<50	<50	<50
Styrene	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1,2,2-Tetrachloroethane (1,1,2,2-PCA)	<5	<5	<5	<5	<5	<5	<5	<5	<5
Tetrachloroethene (PCE)	**19**	<5	<5	<5	<5	<5	<5	<5	**6**
Toluene	**90**	<5	**24**	<5	<5	<5	<5	<5	<5
1,1,1-Trichloroethane (1,1,1-TCA)	**57**	<5	<5	<5	<5	<5	<5	<5	<5
1,1,2-Trichloroethane	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethene (TCE)	**24**	<5	**67**	**21**	**13**	**45**	**11**	<5	<5
Vinyl acetate	<50	<50	<50	<50	<50	<50	<50	<50	<50
Vinyl chloride	<10	<10	<10	<10	<10	<10	<10	<10	<10
Xylene(s)	**110**	<5	**24**	<5	<5	<5	<5	<5	<5
Metals (mg/L) by EPA Mfethods 6010 and 7470 (for Mercury)									
Arsenic (As)	NA	NA	NA	NA	NA	NA	<0.05	<0.05	<0.05

NA = Not analyzed
Bold values highlight concentrations above reporting limits.

Summary of Analytical Results for Ground-Water Samples
WT-1 Compressor Station
Page 3 of 3

Analyte	Monitor Well (Sample Date)								
	MW-1 (09/14/95)	MW-4 (09/12/95)	MW-5 (09/12/95)	MW-6 (09/12/95)	MW-7 (09/12/95)	MW-8 (09/13/95)	MW-14 (09/13/95)	MW-15 (09/14/95)	MW-16 (09/14/95)
Barium	NA	NA	NA	NA	NA	NA	0.14	0.02	0.22
Cadmium	NA	NA	NA	NA	NA	NA	<0.005	<0.005	<0.005
Calcium (6010)	NA	NA	NA	NA	NA	NA	276	291	320
Chromium	NA	NA	NA	NA	NA	NA	<0.01	<0.01	0.02
Lead	NA	NA	NA	NA	NA	NA	<0.05	<0.05	<0.05
Magnesium (6010)	NA	NA	NA	NA	NA	NA	147	137	188
Mercury	NA	NA	NA	NA	NA	NA	<0.0002	<0.0002	0.0003
Potassium	NA	NA	NA	NA	NA	NA	7.0	6.5	9.7
Selenium	NA	NA	NA	NA	NA	NA	<0.1	<0.1	<0.1
Silver	NA	NA	NA	NA	NA	NA	<0.01	0.01	<0.01
Sodium (6010)	NA	NA	NA	NA	NA	NA	170	206	211
Indicator Parameters (mg/L) (EPA methods shown in parentheses)									
Alkalinity, Total as CaCO3 (310.1)	NA	NA	NA	NA	NA	NA	444	286	410
Chloride (325.2)	NA	NA	NA	NA	NA	NA	515	442	624
Nitrate + Nitrate as N (353.2)	NA	NA	NA	NA	NA	NA	1.91	13.2	2.62
Total Dissolved Solids (160.1)	NA	NA	NA	NA	NA	NA	2360	2500	2570
Sulfate (375.2)	NA	NA	NA	NA	NA	NA	700	900	850

NA = Not analyzed
Bold values highlight concentrations above reporting limits.

Analytical Laboratory Reports

CORE LABORATORIES

CORE LABORATORIES

ANALYTICAL REPORT

Job Number: 954301
Prepared For:

Daniel B. Stevens & Associates
Bob Marley
6020 Academy NE
Suite 100

Albuquerque, NM 87109

Date: 10/11/95

Signature

10-11-95

Date

Name: David J. Marshall

Title: Project Coordinator

CORE LABORATORIES, INC.
Analytical Chemistry Division
10703 East Bethany Drive
Aurora, CO 80014

CORELAB

ENVIRONMENTAL TESTING SERVICES

SAMPLE DELIVERY GROUP NARRATIVE

October 11, 1995

Customer: Daniel B. Stevens & Associates
Project: ENRON-WTI/4230
Core Laboratories Project Number: 954301

Method 8270 GC/MS Analysis:

The internal standard perylene-d12 was below the 50% that is allowable when compared to the daily continuing calibration verification standard on sample 954301-4 (Filter Pit-3 @ 4'-8'). The sample was reanalyzed to confirm the low internal standard results.

Method 8260 GC/MS Analysis:

Sample 954301-1 (Drain Pit-1 @ 12'-17') has acetone reported from the 5x dilution. The acetone was below detection limits therefore the value is flagged with a "j".

The internal standard 1,4-dichlorobenzene-d4 was below the 50% that is allowable when compared to the daily continuing calibration verification standard on samples 954301-3 (Filter Pit-1 @ 4'-8') and 954301-4 (Filter Pit-3 @ 4'-8'). The samples were reanalyzed to confirm the low internal standard results.

The reference standard analyzed on 9-22-95 had tetrachloroethylene recovery at 65% which is below the allowable 70%. There were tetrachloroethylene detections in samples 954301-1 (Drain Pit-1 @ 12'-17') and 954301-2 (Drain Pit-2 @ 12'-17').

The reference standard analyzed on 9-27-95 had tetrachloroethylene recovery at 67% which is below the allowable 70%. There were no tetrachloroethylene detections in associated samples.

David J. Marshall
Project Manager

James H. Travis
Laboratory Manager

Core Laboratories, Inc.
10703 East Bethany Drive, Aurora, Colorado 80014-2696, (303) 751-1780, (800) 972-CORE, Fax (303) 751-1784

CORE LAB

CORE LABORATORIES, INC.

No 26045

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: Daniel B. Stephens & Assoc	PROJECT NAME/NUMBER: ENRON - WTI / 4230
SEND REPORT TO: Bob Marley	**BILLING INFORMATION**
ADDRESS: 6020 Academy NE Suite 106 Albuq. NM 87109	BILL TO:
	ADDRESS: SAME
PHONE: 505 822 9400	PHONE:
FAX: 505 822-8877	FAX: PO NO.:

LAB JOB NO. 95401

SAMPLE NO.	SAMPLE ID/DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER TYPE	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS / METHOD REQUEST: VOCs 8240	SVOCs 8270	PCBs 8080	*Total Metals 6010/7000	total Cyanide 9010	total Sulfide 9030	TPH 418.1	REMARKS / PRECAUTIONS
Drain	Pit-1 @ 12-17'	9/13/95	1345	Soil	Glass	none	2	X	X	X	X	X	X	X	* includes Ag, As, Ba, Be, Cd, Co, Cr, Cu, Hg, Ni, Pb, Sb, Sn, Se, Tl, V, Zn, Al
Drain	Pit-2 @ 12-17'	9/13/95	1645	Soil	Glass	none	2	X	X	X	X	X	X	X	
Filter	Pit-1 @ 4-8'	9/14/95	0825	Soil	Glass	none	2	X	X	X	X	X	X	X	
Filter	Pit-1 @ 4-8'	9/14/95	1020	Soil	Glass	none	2	X	X	X	X	X	X	X	
Cuttings	Composite	9/14/95	1700	Soil	Glass	None	2	X							
	bottle labels said Filter Pit-3 @ 4-8' used bottle ID's. 9/19/95 KB														

SAMPLER: SHIPMENT METHOD: AIRBILL NO.:

REQUIRED TURNAROUND:* [ ] SAME DAY [ ] 24 HOURS [ ] 48 HOURS [ ] 72 HOURS [ ] 5 DAYS [ ] 10 DAYS [X] ROUTINE OTHER

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Bob Marley	9/16/95	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: Bob Marley / DBS&A	TIME 1500	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE: Brenda J Hill	9/10/95	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: CORE HILL	TIME 1000	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

* RUSH TURNAROUND MAY REQUIRE SURCHARGE

[ ] **Anaheim, California** 1250 E. Gene Autry Way, Anaheim, California 92805, (714) 937-1094, (800) 404-2673

[ ] **Long Beach, California** 3700 Cherry Avenue, Long Beach, California 90807, (310) 595-8401, (800) 814-3433

[X] **Denver (Aurora), Colorado** 10703 E. Bethany Drive, Aurora, Colorado 80014, (303) 751-1780, (800) 972-2673

[ ] **Casper, Wyoming** 420 West 1st Street, Casper, Wyoming 82601, (307) 235-5741, (800) 666-0306

[ ] **Houston, Texas** 8210 Mosley Road, Houston, Texas 77075, (713) 943-9776, (800) 734-2673

[ ] **Corpus Christi, Texas** 1733 North Padre Island Drive, Corpus Christi, Texas 78408, (512) 289-2673, (800) 548-8228

[ ] **Lake Charles, Louisiana** 3645 Beglis Parkway, Sulphur, Louisiana 70663, (318) 583-4926, (800) 259-4926

ORIGINAL

CORE LABORATORIES

JOB SAMPLE INFORMATION

Report Date: 10/11/95

Job Number.....: 954301
Customer .....: Daniel B. Stevens & Associates
Job Receive Date....: 09/18/95

Project Number.....: 95000272
Customer Project ID....: ENRON-WTI/4230
Project Description....: DBStevens

Laboratory Sample ID.	Customer Sample ID.	Sample Matrix	Sample Date	Sample Time	Received Date	Received Time
954301-1	DRAIN PIT-1 @12'-17'	Soil	09/13/95	13:45	09/18/95	10:00
954301-2	DRAIN PIT-2 @12'-17'	Soil	09/13/95	16:45	09/18/95	10:00
954301-3	FILTER PIT-1 @4'-8'	Soil	09/14/95	08:25	09/18/95	10:00
954301-4	FILTER PIT-3 @4'-8'	Soil	09/14/95	10:20	09/18/95	10:00
954301-5	CUTTINGS COMPOSITE	Soil	09/14/95	17:00	09/18/95	10:00

CORE LABORATORIES

LABORATORY TESTS RESULTS
Report Date: 10/11/95

JOB NUMBER: 954301 PROJECT: ENRON-WTI/4230 CUSTOMER: Daniel B. Stevens & Associates ATTN: Bob Marley

Customer Sample ID.: DRAIN PIT-1 @12'-17'
Sample Date.....: 09/13/95
Sample Time.....: 13:45
Sample Matrix.....: Soil

Laboratory Sample ID.: 954301-1
Date Received.....: 09/18/95
Time Received.....: 10:00

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS OF MEASURE	TEST METHOD	DATE ANALYZED	TECHNICIAN
Sulfide	Solid	840	50	mg/Kg	SW-846 9030	10/10/95 0800	* cc
Acid Digestion: Solids	Solid	Complete			SW-846 3050	09/22/95 0220	lmt
Mercury (Hg)	Solid	0.40	0.02	mg/Kg	SW-846 7471	09/28/95 1053	lmt
Aluminum (Al)	Solid	4480	20	mg/Kg	SW-846 6010	09/28/95 1925	gag
Antimony (Sb)	Solid	<10	10	mg/Kg	SW-846 6010	09/28/95 1917	gag
Arsenic (As)	Solid	<5	5	mg/Kg	SW-846 6010	09/28/95 1917	gag
Barium (Ba)	Solid	280	1	mg/Kg	SW-846 6010	09/28/95 1917	gag
Beryllium (Be)	Solid	<0.5	0.5	mg/Kg	SW-846 6010	09/28/95 1917	gag
Cadmium (Cd)	Solid	<0.5	0.5	mg/Kg	SW-846 6010	09/28/95 1917	gag
Chromium (Cr)	Solid	7	1	mg/Kg	SW-846 6010	09/28/95 1917	gag
Cobalt (Co)	Solid	<3	3	mg/Kg	SW-846 6010	09/28/95 1917	gag
Copper (Cu)	Solid	8	1	mg/Kg	SW-846 6010	09/28/95 1917	gag
Lead (Pb)	Solid	9	5	mg/Kg	SW-846 6010	09/28/95 1917	gag
Nickel (Ni)	Solid	<4	4	mg/Kg	SW-846 6010	09/28/95 1917	gag
Selenium (Se)	Solid	<10	10	mg/Kg	SW-846 6010	09/28/95 1917	gag
Silver (Ag)	Solid	<1	1	mg/Kg	SW-846 6010	09/28/95 1917	gag

CORE LABORATORIES

LABORATORY TESTS RESULTS
Report Date: 10/11/95

JOB NUMBER: 954301 PROJECT: ENRON-WTI/4230 CUSTOMER: Daniel B. Stevens & Associates ATTN: Bob Marley

Customer Sample ID.: DRAIN PIT-1 @12'-17'
Sample Date.....: 09/13/95
Sample Time.....: 13:45
Sample Matrix.....: Soil

Laboratory Sample ID.: 954301-1
Date Received.....: 09/18/95
Time Received.....: 10:00

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS OF MEASURE	TEST METHOD	DATE ANALYZED	TECHNICIAN
Thallium (Tl)	Solid	<10	10	mg/Kg	SW-846 6010	09/28/95 1917	gag
Tin (Sn)	Solid	<5	5	mg/Kg	SW-846 6010	09/28/95 1917	gag
Vanadium (V)	Solid	38	5	mg/Kg	SW-846 6010	09/28/95 1917	gag
Zinc (Zn)	Solid	59	1	mg/Kg	SW-846 6010	09/28/95 1917	gag
Total Recoverable Petroleum Hydrocarbons	Solid	55000	1000	mg/Kg	EPA 418.1	09/28/95 0800	jbd
Cyanide (Colorimetric, Manual)					SW-846 9010		kds
Cyanide (CN)	Solid	<0.4	0.4	mg/Kg		09/26/95 0800	
Extraction (Ultrasonic) PCBs					SW-846 3550		jbd
Ultrasonic Extraction	Solid	ND				09/21/95 0000	
PCB Analysis					SW-846 8080		lb
Aroclor 1016	Solid	ND	170	ug/Kg		09/26/95 0304	
Aroclor 1221	Solid	ND	170	ug/Kg		09/26/95 0304	
Aroclor 1232	Solid	ND	170	ug/Kg		09/26/95 0304	
Aroclor 1242	Solid	ND	170	ug/Kg		09/26/95 0304	
Aroclor 1248	Solid	ND	170	ug/Kg		09/26/95 0304	
Aroclor 1254	Solid	ND	170	ug/Kg		09/26/95 0304	
Aroclor 1260	Solid	ND	170	ug/Kg		09/26/95 0304	
Aroclor 1262	Solid	ND	170	ug/Kg		09/26/95 0304	
Aroclor 1268	Solid	ND	170	ug/Kg		09/26/95 0304	
Extraction (Ultrasonic) SVOCs					SW-846 3550		jbd
Ultrasonic Extraction	Solid	ND	0			09/22/95 0000	
Semivolatile Organics (Client List)					SW-846 8270		mla

CORE LABORATORIES

LABORATORY TESTS RESULTS
Report Date: 10/11/95

JOB NUMBER: 954301 PROJECT: ENRON-WTI/4230 CUSTOMER: Daniel B. Stevens & Associates ATTN: Bob Marley

Customer Sample ID.: DRAIN PIT-1 @12'-17'
Sample Date.....: 09/13/95
Sample Time.....: 13:45
Sample Matrix.....: Soil

Laboratory Sample ID.: 954301-1
Date Received.....: 09/18/95
Time Received.....: 10:00

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS OF MEASURE	TEST METHOD	DATE ANALYZED	TECHNICIAN
Acenaphthene	Solid	ND	16000	ug/Kg		09/29/95 1909	
Acenaphthylene	Solid	ND	16000	ug/Kg		09/29/95 1909	
Acetophenone	Solid	ND	16000	ug/Kg		09/29/95 1909	
4-Aminobiphenyl	Solid	ND	16000	ug/Kg		09/29/95 1909	
Aniline	Solid	ND	16000	ug/Kg		09/29/95 [illegible]	
Anthracene	Solid	ND	16000	ug/Kg		09/29/95 1909	
Benzidine	Solid	ND	82500	ug/Kg		09/29/95 1909	
Benzo(a)anthracene	Solid	ND	16000	ug/Kg		09/29/95 1909	
Benzo(b)fluoranthene	Solid	ND	16000	ug/Kg		09/29/95 1909	
Benzo(j)fluoranthene	Solid	ND	16000	ug/Kg		09/29/95 1909	
Benzo(k)fluoranthene	Solid	ND	16000	ug/Kg		09/29/95 1909	
Benzo(ghi)perylene	Solid	ND	16000	ug/Kg		09/29/95 1909	
Benzo(a)pyrene	Solid	ND	16000	ug/Kg		09/29/95 1909	
Benzyl alcohol	Solid	ND	33000	ug/Kg		09/29/95 1909	
Butyl benzyl phthalate	Solid	ND	16000	ug/Kg		09/29/95 1909	
Bis(2-chloroethoxy)methane	Solid	ND	16000	ug/Kg		09/29/95 1909	
Bis(2-chloroethyl)ether	Solid	ND	16000	ug/Kg		09/29/95 1909	
Bis(2-chloroisopropyl)ether	Solid	ND	16000	ug/Kg		09/29/95 1909	
Bis(2-ethylhexyl)phthalate	Solid	ND	16000	ug/Kg		09/29/95 1909	
4-Bromophenyl phenyl ether	Solid	ND	16000	ug/Kg		09/29/95 1909	
4-Chloroaniline	Solid	ND	16000	ug/Kg		09/29/95 1909	
Chlorobenzilate	Solid	ND	16000	ug/Kg		09/29/95 1909	
1-Chloronaphthalene	Solid	ND	16000	ug/Kg		09/29/95 1909	
2-Chloronaphthalene	Solid	ND	16000	ug/Kg		09/29/95 1909	
4-Chlorophenyl phenyl ether	Solid	ND	16000	ug/Kg		09/29/95 1909	
Chrysene	Solid	ND	16000	ug/Kg		09/29/95 1909	
Diallate	Solid	ND	16000	ug/Kg		09/29/95 1909	
Dibenzo(a,j)acridine	Solid	ND	16000	ug/Kg		09/29/95 1909	
Dibenzo(a,h)anthracene	Solid	ND	16000	ug/Kg		09/29/95 1909	
Dibenzofuran	Solid	ND	16000	ug/Kg		09/29/95 19[illegible]	
1,2-Dichlorobenzene	Solid	ND	16000	ug/Kg		09/29/95 1909	

CORE LABORATORIES

LABORATORY TESTS RESULTS
Report Date: 10/11/95

JOB NUMBER: 954301 PROJECT: ENRON-WTI/4230 CUSTOMER: Daniel B. Stevens & Associates ATTN: Bob Marley

Customer Sample ID.: DRAIN PIT-1 @12'-17'
Sample Date.....: 09/13/95
Sample Time.....: 13:45
Sample Matrix.....: Soil

Laboratory Sample ID.: 954301-1
Date Received.....: 09/18/95
Time Received.....: 10:00

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS OF MEASURE	TEST METHOD	DATE ANALYZED	TECHNICIAN
1,3-Dichlorobenzene	Solid	ND	16000	ug/Kg		09/29/95 1909	
1,4-Dichlorobenzene	Solid	ND	16000	ug/Kg		09/29/95 1909	
3,3-Dichlorobenzidine	Solid	ND	16000	ug/Kg		09/29/95 1909	
Diethyl phthalate	Solid	ND	16000	ug/Kg		09/29/95 1909	
p-Dimethylaminoazobenzene	Solid	ND	16000	ug/Kg		09/29/95 1909	
Dimethoate	Solid	ND	33000	ug/Kg		09/29/95 1909	
7,12-Dimethylbenz(a)anthracene	Solid	ND	16000	ug/Kg		09/29/95 1909	
alpha, alpha-Dimethylphenethylamine	Solid	ND	16000	ug/Kg		09/29/95 1909	
Dimethyl phthalate	Solid	ND	16000	ug/Kg		09/29/95 1909	
Di-n-butyl phthalate	Solid	ND	16000	ug/Kg		09/29/95 1909	
Di-n-octyl phthalate	Solid	ND	16000	ug/Kg		09/29/95 1909	
2,4-Dinitrotoluene	Solid	ND	16000	ug/Kg		09/29/95 1909	
2,6-Dinitrotoluene	Solid	ND	16000	ug/Kg		09/29/95 1909	
Dinoseb (DNBP)	Solid	ND	16000	ug/Kg		09/29/95 1909	
Diphenylamine	Solid	ND	16000	ug/Kg		09/29/95 1909	
1,2-Diphenylhydrazine	Solid	ND	16000	ug/Kg		09/29/95 1909	
Disulfoton	Solid	ND	16000	ug/Kg		09/29/95 1909	
Ethyl methane sulfonate	Solid	ND	16000	ug/Kg		09/29/95 1909	
Fluoranthene	Solid	ND	16000	ug/Kg		09/29/95 1909	
Fluorene	Solid	ND	16000	ug/Kg		09/29/95 1909	
Hexachlorobenzene	Solid	ND	16000	ug/Kg		09/29/95 1909	
Hexachlorobutadiene	Solid	ND	16000	ug/Kg		09/29/95 1909	
Hexachlorocyclopentadiene	Solid	ND	16000	ug/Kg		09/29/95 1909	
Hexachloroethane	Solid	ND	16000	ug/Kg		09/29/95 1909	
Hexachlorophene	Solid	ND	160000	ug/Kg		09/29/95 1909	
Hexachloropropene	Solid	ND	16000	ug/Kg		09/29/95 1909	
Indeno(1,2,3-cd)pyrene	Solid	ND	16000	ug/Kg		09/29/95 1909	
Isodrin	Solid	ND	16000	ug/Kg		09/29/95 1909	
Isophorone	Solid	ND	16000	ug/Kg		09/29/95 1909	
Isosafrole	Solid	ND	16000	ug/Kg		09/29/95 1909	
Kepone	Solid	ND	82500	ug/Kg		09/29/95 1909	

CORE LABORATORIES

LABORATORY TESTS RESULTS
Report Date: 10/11/95

JOB NUMBER: 954301 PROJECT: ENRON-WTI/4230 CUSTOMER: Daniel B. Stevens & Associates ATTN: Bob Marley

Customer Sample ID.: DRAIN PIT-1 @12'-17'
Sample Date.....: 09/13/95
Sample Time.....: 13:45
Sample Matrix.....: Soil

Laboratory Sample ID.: 954301-1
Date Received.....: 09/18/95
Time Received.....: 10:00

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS OF MEASURE	TEST METHOD	DATE ANALYZED	TECHNICIAN
Methapyrilene	Solid	ND	16000	ug/Kg		09/29/95 1909	
3-Methylcholanthrene	Solid	ND	16000	ug/Kg		09/29/95 1909	
Methyl methane sulfonate	Solid	ND	16000	ug/Kg		09/29/95 1909	
2-Methylnaphthalene	Solid	ND	16000	ug/Kg		09/29/95 1909	
Naphthalene	Solid	ND	16000	ug/Kg		09/29/95 1909	
1,4-Naphthoquinone	Solid	ND	16000	ug/Kg		09/29/95 1909	
1-Naphthylamine	Solid	ND	16000	ug/Kg		09/29/95 1909	
2-Naphthylamine	Solid	ND	16000	ug/Kg		09/29/95 1909	
o-Nitroaniline	Solid	ND	82500	ug/Kg		09/29/95 1909	
m-Nitroaniline	Solid	ND	82500	ug/Kg		09/29/95 1909	
p-Nitroaniline	Solid	ND	82500	ug/Kg		09/29/95 1909	
Nitrobenzene	Solid	ND	16000	ug/Kg		09/29/95 1909	
4-Nitroquinoline-1-oxide	Solid	ND	16000	ug/Kg		09/29/95 1909	
n-Nitrosodi-n-butylamine	Solid	ND	16000	ug/Kg		09/29/95 1909	
n-Nitrosodiethylamine	Solid	ND	16000	ug/Kg		09/29/95 1909	
n-Nitrosodimethylamine	Solid	ND	16000	ug/Kg		09/29/95 1909	
n-Nitrosomethylethylamine	Solid	ND	16000	ug/Kg		09/29/95 1909	
n-Nitrosomorpholine	Solid	ND	16000	ug/Kg		09/29/95 1909	
n-Nitrosodi-n-propylamine	Solid	ND	16000	ug/Kg		09/29/95 1909	
n-Nitrosodiphenylamine	Solid	ND	16000	ug/Kg		09/29/95 1909	
n-Nitrosopiperidine	Solid	ND	16000	ug/Kg		09/29/95 1909	
n-Nitrosopyrolidine	Solid	ND	16000	ug/Kg		09/29/95 1909	
5-Nitro-o-toluidine	Solid	ND	16000	ug/Kg		09/29/95 1909	
Ethyl parathion	Solid	ND	16000	ug/Kg		09/29/95 1909	
Pentachlorobenzene	Solid	ND	16000	ug/Kg		09/29/95 1909	
Pentachloronitrobenzene	Solid	ND	16000	ug/Kg		09/29/95 1909	
Phenacetin	Solid	ND	16000	ug/Kg		09/29/95 1909	
Phenanthrene	Solid	ND	16000	ug/Kg		09/29/95 1909	
p-Phenylenediamine	Solid	ND	16000	ug/Kg		09/29/95 1909	
Phorate	Solid	ND	16000	ug/Kg		09/29/95 1909	
2-Picoline	Solid	ND	16000	ug/Kg		09/29/95 1909	

CORE LABORATORIES

LABORATORY TESTS RESULTS
Report Date: 10/11/95

JOB NUMBER: 954301 PROJECT: ENRON-WT1/4230 CUSTOMER: Daniel B. Stevens & Associates ATTN: Bob Marley

Customer Sample ID.: DRAIN PIT-1 @12'-17'
Sample Date.....: 09/13/95
Sample Time.....: 13:45
Sample Matrix.....: Soil

Laboratory Sample ID.: 954301-1
Date Received.....: 09/18/95
Time Received.....: 10:0

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS OF MEASURE	TEST METHOD	DATE ANALYZED	TECHNICIAN
Pronamide	Solid	ND	16000	ug/Kg		09/29/95 1909	
Pyrene	Solid	ND	16000	ug/Kg		09/29/95 1909	
Pyridine	Solid	ND	16000	ug/Kg		09/29/95 1909	
Safrole	Solid	ND	16000	ug/Kg		09/29/95 1909	
1,2,4,5-Tetrachlorobenzene	Solid	ND	16000	ug/Kg		09/29/95 1909	
o-Toluidine	Solid	ND	16000	ug/Kg		09/29/95 1909	
1,2,4-Trichlorobenzene	Solid	ND	16000	ug/Kg		09/29/95 1909	
O,O,O-Triethyl phosphorothioate	Solid	ND	16000	ug/Kg		09/29/95 1909	
1,3,5-Trinitrobenzene	Solid	ND	16000	ug/Kg		09/29/95 1909	
Benzoic acid	Solid	ND	82500	ug/Kg		09/29/95 1909	
4-Chloro-3-methylphenol	Solid	ND	16000	ug/Kg		09/29/95 1909	
2-Chlorophenol	Solid	ND	16000	ug/Kg		09/29/95 1909	
2,4-Dichlorophenol	Solid	ND	16000	ug/Kg		09/29/95 1909	
2,6-Dichlorophenol	Solid	ND	16000	ug/Kg		09/29/95 1909	
2,4-Dimethylphenol	Solid	ND	16000	ug/Kg		09/29/95 1909	
2,4-Dinitrophenol	Solid	ND	82500	ug/Kg		09/29/95 1909	
2-Methyl-4,6-dinitrophenol	Solid	ND	82500	ug/Kg		09/29/95 1909	
2-Methylphenol (o-cresol)	Solid	ND	16000	ug/Kg		09/29/95 1909	
3 & 4 Methylphenol (m&p cresol)	Solid	ND	16000	ug/Kg		09/29/95 1909	
2-Nitrophenol	Solid	ND	16000	ug/Kg		09/29/95 1909	
4-Nitrophenol	Solid	ND	82500	ug/Kg		09/29/95 1909	
Pentachlorophenol	Solid	ND	82500	ug/Kg		09/29/95 1909	
Phenol	Solid	ND	16000	ug/Kg		09/29/95 1909	
2,3,4,6-Tetrachlorophenol	Solid	ND	16000	ug/Kg		09/29/95 1909	
2,4,5-Trichlorophenol	Solid	ND	16000	ug/Kg		09/29/95 1909	
2,4,6-Trichlorophenol	Solid	ND	16000	ug/Kg		09/29/95 1909	
Volatile Organics (Client Requested)					SW-846 8240		bfr
Acetonitrile	Solid	ND	500	ug/Kg		09/22/95 1802	
Acrolein	Solid	ND	200	ug/Kg		09/22/95 1802	
Acrylonitrile	Solid	ND	100	ug/Kg		09/22/95 1802	

CORE LABORATORIES

LABORATORY TESTS RESULTS
Report Date: 10/11/95

JOB NUMBER: 954301 PROJECT: ENRON-WTI/4230 CUSTOMER: Daniel B. Stevens & Associates ATTN: Bob Marley

Customer Sample ID.: DRAIN PIT-1 @12'-17'
Sample Date.....: 09/13/95
Sample Time.....: 13:45
Sample Matrix.....: Soil

Laboratory Sample ID.: 954301-1
Date Received.....: 09/18/95
Time Received.....: 10:00

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS OF MEASURE	TEST METHOD	DATE ANALYZED	TECHNICIAN
Acetone	Solid	7500 J	500	ug/Kg		09/22/95 1802	
Allyl chloride	Solid	ND	100	ug/Kg		09/22/95 1802	
Benzene	Solid	ND	20	ug/Kg		09/22/95 1802	
Benzyl chloride	Solid	ND	20	ug/Kg		09/22/95 1802	
Bromobenzene	Solid	ND	20	ug/Kg		09/22/95 1802	
Bromochloromethane	Solid	ND	20	ug/Kg		09/22/95 1802	
Bromodichloromethane	Solid	ND	20	ug/Kg		09/22/95 1802	
Bromoform	Solid	ND	20	ug/Kg		09/22/95 1802	
Bromomethane	Solid	ND	50	ug/Kg		09/22/95 1802	
Methyl ethyl ketone (2-Butanone)	Solid	ND	500	ug/Kg		09/22/95 1802	
Carbon disulfide	Solid	40	20	ug/Kg		09/22/95 1802	
Carbon tetrachloride	Solid	ND	20	ug/Kg		09/22/95 1802	
Chlorobenzene	Solid	ND	20	ug/Kg		09/22/95 1802	
Chloroethane	Solid	ND	50	ug/Kg		09/22/95 1802	
2-Chloroethylvinyl ether	Solid	ND	20	ug/Kg		09/22/95 1802	
Chloroform	Solid	ND	20	ug/Kg		09/22/95 1802	
Chloromethane	Solid	ND	20	ug/Kg		09/22/95 1802	
2-Chloro-1,3-butadiene (chloroprene)	Solid	ND	20	ug/Kg		09/22/95 1802	
Dibromochloromethane	Solid	ND	20	ug/Kg		09/22/95 1802	
1,2-Dibromoethane (EDB)	Solid	ND	20	ug/Kg		09/22/95 1802	
1,2-Dibromo-3-chloropropane	Solid	ND	20	ug/Kg		09/22/95 1802	
Dibromomethane	Solid	ND	20	ug/Kg		09/22/95 1802	
trans-1,4-Dichloro-2-butene	Solid	ND	200	ug/Kg		09/22/95 1802	
Dichlorodifluoromethane	Solid	ND	50	ug/Kg		09/22/95 1802	
1,1-Dichloroethane	Solid	800	600	ug/Kg		09/25/95 0023	
1,2-Dichloroethane	Solid	ND	20	ug/Kg		09/22/95 1802	
1,1-Dichloroethene	Solid	30	20	ug/Kg		09/22/95 1802	
cis-1,2-Dichloroethene	Solid	ND	20	ug/Kg		09/22/95 1802	
trans-1,2-Dichloroethene	Solid	ND	20	ug/Kg		09/22/95 1802	
1,2-Dichloropropane	Solid	ND	20	ug/Kg		09/22/95 1802	
cis-1,3-Dichloropropene	Solid	ND	20	ug/Kg		09/22/95 1802	

CORE LABORATORIES

LABORATORY TESTS RESULTS
Report Date: 10/11/95

JOB NUMBER: 954301 PROJECT: ENRON-WTI/4230 CUSTOMER: Daniel B. Stevens & Associates ATTN: Bob Marley

Customer Sample ID.: DRAIN PIT-1 @12'-17'
Sample Date.....: 09/13/95
Sample Time.....: 13:45
Sample Matrix.....: Soil

Laboratory Sample ID.: 954301-1
Date Received.....: 09/18/95
Time Received.....: 10:00

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS OF MEASURE	TEST METHOD	DATE ANALYZED	TECHNICIAN
trans-1,3-Dichloropropene	Solid	ND	20	ug/Kg		09/22/95 1802	
Ethylbenzene	Solid	80	20	ug/Kg		09/22/95 1802	
Ethyl methacrylate	Solid	ND	20	ug/Kg		09/22/95 1802	
2-Hexanone	Solid	ND	20	ug/Kg		09/22/95 1802	
Iodomethane	Solid	ND	20	ug/Kg		09/22/95 1802	
Isobutyl alcohol	Solid	ND	200	ug/Kg		09/22/95 1802	
Methylacrylonitrile	Solid	ND	200	ug/Kg		09/22/95 1802	
Methylene chloride	Solid	170	20	ug/Kg		09/22/95 1802	
Methyl methacrylate	Solid	ND	20	ug/Kg		09/22/95 1802	
4-Methyl-2-pentanone (MIBK)	Solid	ND	200	ug/Kg		09/22/95 1802	
Pentachloroethane	Solid	ND	20	ug/Kg		09/22/95 1802	
Propionitrile	Solid	ND	500	ug/Kg		09/22/95 1802	
Styrene	Solid	ND	20	ug/Kg		09/22/95 1802	
1,1,1,2-Tetrachloroethane	Solid	ND	20	ug/Kg		09/22/95 1802	
1,1,2,2-Tetrachloroethane	Solid	ND	20	ug/Kg		09/22/95 1802	
Tetrachloroethene	Solid	10000	600	ug/Kg		09/25/95 0023	
Toluene	Solid	100	20	ug/Kg		09/22/95 1802	
1,1,1-Trichloroethane	Solid	3600	600	ug/Kg		09/25/95 0023	
1,1,2-Trichloroethane	Solid	ND	20	ug/Kg		09/22/95 1802	
Trichloroethene	Solid	ND	20	ug/Kg		09/22/95 1802	
Trichlorofluoromethane	Solid	ND	50	ug/Kg		09/22/95 1802	
1,2,3-Trichloropropane	Solid	ND	20	ug/Kg		09/22/95 1802	
Vinyl acetate	Solid	ND	200	ug/Kg		09/22/95 1802	
Vinyl chloride	Solid	ND	50	ug/Kg		09/22/95 1802	
Xylenes (total)	Solid	550	20	ug/Kg		09/22/95 1802	

CORE LABORATORIES

LABORATORY TESTS RESULTS
Report Date: 10/11/95

JOB NUMBER: 954301 PROJECT: ENRON-WTI/4230 CUSTOMER: Daniel B. Stevens & Associates ATTN: Bob Marley

Customer Sample ID.: DRAIN PIT-2 @12'-17'
Sample Date.....: 09/13/95
Sample Time.....: 16:45
Sample Matrix.....: Soil

Laboratory Sample ID.: 954301-2
Date Received.....: 09/18/95
Time Received.....: 10:00

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS OF MEASURE	TEST METHOD	DATE ANALYZED	TECHNICIAN
Sulfide	Solid	1260	50	mg/Kg	SW-846 9030	10/10/95 0800	* cc
Acid Digestion: Solids	Solid	Complete			SW-846 3050	09/22/95 0220	lmt
Mercury (Hg)	Solid	0.24	0.02	mg/Kg	SW-846 7471	09/28/95 1055	lmt
Aluminum (Al)	Solid	3830	50	mg/Kg	SW-846 6010	09/28/95 1952	gag
Antimony (Sb)	Solid	<10	10	mg/Kg	SW-846 6010	09/28/95 1928	gag
Arsenic (As)	Solid	<5	5	mg/Kg	SW-846 6010	09/28/95 1928	gag
Barium (Ba)	Solid	330	10	mg/Kg	SW-846 6010	09/28/95 1952	gag
Beryllium (Be)	Solid	<0.5	0.5	mg/Kg	SW-846 6010	09/28/95 1928	gag
Cadmium (Cd)	Solid	<0.5	0.5	mg/Kg	SW-846 6010	09/28/95 1928	gag
Chromium (Cr)	Solid	7	1	mg/Kg	SW-846 6010	09/28/95 1928	gag
Cobalt (Co)	Solid	<3	3	mg/Kg	SW-846 6010	09/28/95 1928	gag
Copper (Cu)	Solid	6	1	mg/Kg	SW-846 6010	09/28/95 1928	gag
Lead (Pb)	Solid	<5	5	mg/Kg	SW-846 6010	09/28/95 1928	gag
Nickel (Ni)	Solid	<4	4	mg/Kg	SW-846 6010	09/28/95 1928	gag
Selenium (Se)	Solid	<10	10	mg/Kg	SW-846 6010	09/28/95 1928	gag
Silver (Ag)	Solid	<1	1	mg/Kg	SW-846 6010	09/28/95 1928	gag

CORE LABORATORIES

LABORATORY TESTS RESULTS
Report Date: 10/11/95

JOB NUMBER: 954301 PROJECT: ENRON-WTI/4230 CUSTOMER: Daniel B. Stevens & Associates ATTN: Bob Marley

Customer Sample ID.: DRAIN PIT-2 @12'-17'
Sample Date.....: 09/13/95
Sample Time.....: 16:45
Sample Matrix.....: Soil

Laboratory Sample ID.: 954301-2
Date Received.....: 09/18/95
Time Received.....: 10:00

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS OF MEASURE	TEST METHOD	DATE ANALYZED	TECHNICIAN
Thallium (Tl)	Solid	<10	10	mg/Kg	SW-846 6010	09/28/95 1928	gag
Tin (Sn)	Solid	<5	5	mg/Kg	SW-846 6010	09/28/95 1928	gag
Vanadium (V)	Solid	30	5	mg/Kg	SW-846 6010	09/28/95 1928	gag
Zinc (Zn)	Solid	59	1	mg/Kg	SW-846 6010	09/28/95 1928	gag
Total Recoverable Petroleum Hydrocarbons	Solid	19000	1000	mg/Kg	EPA 418.1	09/28/95 0800	jbd
Cyanide (Colorimetric, Manual)					SW-846 9010		kds
Cyanide (CN)	Solid	<0.4	0.4	mg/Kg		09/26/95 0800	
Extraction (Ultrasonic) PCBs					SW-846 3550		jbd
Ultrasonic Extraction	Solid	ND				09/21/95 0000	
PCB Analysis					SW-846 8080		lb
Aroclor 1016	Solid	ND	170	ug/Kg		09/26/95 0333	
Aroclor 1221	Solid	ND	170	ug/Kg		09/26/95 0333	
Aroclor 1232	Solid	ND	170	ug/Kg		09/26/95 0333	
Aroclor 1242	Solid	ND	170	ug/Kg		09/26/95 0333	
Aroclor 1248	Solid	ND	170	ug/Kg		09/26/95 0333	
Aroclor 1254	Solid	ND	170	ug/Kg		09/26/95 0333	
Aroclor 1260	Solid	ND	170	ug/Kg		09/26/95 0333	
Aroclor 1262	Solid	ND	170	ug/Kg		09/26/95 0333	
Aroclor 1268	Solid	ND	170	ug/Kg		09/26/95 0333	
Extraction (Ultrasonic) SVOCs					SW-846 3550		jbd
Ultrasonic Extraction	Solid	ND	0			09/22/95 0000	
Semivolatile Organics (Client List)					SW-846 8270		mla

CORE LABORATORIES

LABORATORY TESTS RESULTS
Report Date: 10/11/95

JOB NUMBER: 954301 PROJECT: ENRON-WTI/4230 CUSTOMER: Daniel B. Stevens & Associates ATTN: Bob Marley

Customer Sample ID.: DRAIN PIT-2 @12'-17'
Sample Date.....: 09/13/95
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Laboratory Sample ID.: 954301-2
Date Received.....: 09/18/95
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TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS OF MEASURE	TEST METHOD	DATE ANALYZED	TECHNICIAN
Acenaphthene	Solid	ND	16000	ug/Kg		09/29/95 2007	
Acenaphthylene	Solid	ND	16000	ug/Kg		09/29/95 2007	
Acetophenone	Solid	ND	16000	ug/Kg		09/29/95 2007	
4-Aminobiphenyl	Solid	ND	16000	ug/Kg		09/29/95 2007	
Aniline	Solid	ND	16000	ug/Kg		09/29/95 2007	
Anthracene	Solid	ND	16000	ug/Kg		09/29/95 2007	
Benzidine	Solid	ND	82500	ug/Kg		09/29/95 2007	
Benzo(a)anthracene	Solid	ND	16000	ug/Kg		09/29/95 2007	
Benzo(b)fluoranthene	Solid	ND	16000	ug/Kg		09/29/95 2007	
Benzo(j)fluoranthene	Solid	ND	16000	ug/Kg		09/29/95 2007	
Benzo(k)fluoranthene	Solid	ND	16000	ug/Kg		09/29/95 2007	
Benzo(ghi)perylene	Solid	ND	16000	ug/Kg		09/29/95 2007	
Benzo(a)pyrene	Solid	ND	16000	ug/Kg		09/29/95 2007	
Benzyl alcohol	Solid	ND	33000	ug/Kg		09/29/95 2007	
Butyl benzyl phthalate	Solid	ND	16000	ug/Kg		09/29/95 2007	
Bis(2-chloroethoxy)methane	Solid	ND	16000	ug/Kg		09/29/95 2007	
Bis(2-chloroethyl)ether	Solid	ND	16000	ug/Kg		09/29/95 2007	
Bis(2-chloroisopropyl)ether	Solid	ND	16000	ug/Kg		09/29/95 2007	
Bis(2-ethylhexyl)phthalate	Solid	ND	16000	ug/Kg		09/29/95 2007	
4-Bromophenyl phenyl ether	Solid	ND	16000	ug/Kg		09/29/95 2007	
4-Chloroaniline	Solid	ND	16000	ug/Kg		09/29/95 2007	
Chlorobenzilate	Solid	ND	16000	ug/Kg		09/29/95 2007	
1-Chloronaphthalene	Solid	ND	16000	ug/Kg		09/29/95 2007	
2-Chloronaphthalene	Solid	ND	16000	ug/Kg		09/29/95 2007	
4-Chlorophenyl phenyl ether	Solid	ND	16000	ug/Kg		09/29/95 2007	
Chrysene	Solid	ND	16000	ug/Kg		09/29/95 2007	
Diallate	Solid	ND	16000	ug/Kg		09/29/95 2007	
Dibenzo(a,j)acridine	Solid	ND	16000	ug/Kg		09/29/95 2007	
Dibenzo(a,h)anthracene	Solid	ND	16000	ug/Kg		09/29/95 2007	
Dibenzofuran	Solid	ND	16000	ug/Kg		09/29/95 2007	
1,2-Dichlorobenzene	Solid	ND	16000	ug/Kg		09/29/95 2007	

CORE LABORATORIES

LABORATORY TESTS RESULTS
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Customer Sample ID.: DRAIN PIT-2 @12'-17'
Sample Date.....: 09/13/95
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Laboratory Sample ID.: 954301-2
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TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS OF MEASURE	TEST METHOD	DATE ANALYZED	TECHNICIAN
1,3-Dichlorobenzene	Solid	ND	16000	ug/Kg		09/29/95 2007	
1,4-Dichlorobenzene	Solid	ND	16000	ug/Kg		09/29/95 2007	
3,3-Dichlorobenzidine	Solid	ND	16000	ug/Kg		09/29/95 2007	
Diethyl phthalate	Solid	ND	16000	ug/Kg		09/29/95 2007	
p-Dimethylaminoazobenzene	Solid	ND	16000	ug/Kg		09/29/95 2007	
Dimethoate	Solid	ND	33000	ug/Kg		09/29/95 2007	
7,12-Dimethylbenz(a)anthracene	Solid	ND	16000	ug/Kg		09/29/95 2007	
alpha, alpha-Dimethylphenethylamine	Solid	ND	16000	ug/Kg		09/29/95 2007	
Dimethyl phthalate	Solid	ND	16000	ug/Kg		09/29/95 2007	
Di-n-butyl phthalate	Solid	ND	16000	ug/Kg		09/29/95 2007	
Di-n-octyl phthalate	Solid	ND	16000	ug/Kg		09/29/95 2007	
2,4-Dinitrotoluene	Solid	ND	16000	ug/Kg		09/29/95 2007	
2,6-Dinitrotoluene	Solid	ND	16000	ug/Kg		09/29/95 2007	
Dinoseb (DNBP)	Solid	ND	16000	ug/Kg		09/29/95 2007	
Diphenylamine	Solid	ND	16000	ug/Kg		09/29/95 2007	
1,2-Diphenylhydrazine	Solid	ND	16000	ug/Kg		09/29/95 2007	
Disulfoton	Solid	ND	16000	ug/Kg		09/29/95 2007	
Ethyl methane sulfonate	Solid	ND	16000	ug/Kg		09/29/95 2007	
Fluoranthene	Solid	ND	16000	ug/Kg		09/29/95 2007	
Fluorene	Solid	ND	16000	ug/Kg		09/29/95 2007	
Hexachlorobenzene	Solid	ND	16000	ug/Kg		09/29/95 2007	
Hexachlorobutadiene	Solid	ND	16000	ug/Kg		09/29/95 2007	
Hexachlorocyclopentadiene	Solid	ND	16000	ug/Kg		09/29/95 2007	
Hexachloroethane	Solid	ND	16000	ug/Kg		09/29/95 2007	
Hexachlorophene	Solid	ND	160000	ug/Kg		09/29/95 2007	
Hexachloropropene	Solid	ND	16000	ug/Kg		09/29/95 2007	
Indeno(1,2,3-cd)pyrene	Solid	ND	16000	ug/Kg		09/29/95 2007	
Isodrin	Solid	ND	16000	ug/Kg		09/29/95 2007	
Isophorone	Solid	ND	16000	ug/Kg		09/29/95 2007	
Isosafrole	Solid	ND	16000	ug/Kg		09/29/95 2007	
Kepone	Solid	ND	82500	ug/Kg		09/29/95 2007	

CORE LABORATORIES

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Laboratory Sample ID.: 954301-2
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TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS OF MEASURE	TEST METHOD	DATE ANALYZED	TECHNICIAN
Methapyrilene	Solid	ND	16000	ug/Kg		09/29/95 2007	
3-Methylcholanthrene	Solid	ND	16000	ug/Kg		09/29/95 2007	
Methyl methane sulfonate	Solid	ND	16000	ug/Kg		09/29/95 2007	
2-Methylnaphthalene	Solid	ND	16000	ug/Kg		09/29/95 2007	
Naphthalene	Solid	ND	16000	ug/Kg		09/29/95 2007	
1,4-Naphthoquinone	Solid	ND	16000	ug/Kg		09/29/95 2007	
1-Naphthylamine	Solid	ND	16000	ug/Kg		09/29/95 2007	
2-Naphthylamine	Solid	ND	16000	ug/Kg		09/29/95 2007	
o-Nitroaniline	Solid	ND	82500	ug/Kg		09/29/95 2007	
m-Nitroaniline	Solid	ND	82500	ug/Kg		09/29/95 2007	
p-Nitroaniline	Solid	ND	82500	ug/Kg		09/29/95 2007	
Nitrobenzene	Solid	ND	16000	ug/Kg		09/29/95 2007	
4-Nitroquinoline-1-oxide	Solid	ND	16000	ug/Kg		09/29/95 2007	
n-Nitrosodi-n-butylamine	Solid	ND	16000	ug/Kg		09/29/95 2007	
n-Nitrosodiethylamine	Solid	ND	16000	ug/Kg		09/29/95 2007	
n-Nitrosodimethylamine	Solid	ND	16000	ug/Kg		09/29/95 2007	
n-Nitrosomethylethylamine	Solid	ND	16000	ug/Kg		09/29/95 2007	
n-Nitrosomorpholine	Solid	ND	16000	ug/Kg		09/29/95 2007	
n-Nitrosodi-n-propylamine	Solid	ND	16000	ug/Kg		09/29/95 2007	
n-Nitrosodiphenylamine	Solid	ND	16000	ug/Kg		09/29/95 2007	
n-Nitrosopiperidine	Solid	ND	16000	ug/Kg		09/29/95 2007	
n-Nitrosopyrolidine	Solid	ND	16000	ug/Kg		09/29/95 2007	
5-Nitro-o-toluidine	Solid	ND	16000	ug/Kg		09/29/95 2007	
Ethyl parathion	Solid	ND	16000	ug/Kg		09/29/95 2007	
Pentachlorobenzene	Solid	ND	16000	ug/Kg		09/29/95 2007	
Pentachloronitrobenzene	Solid	ND	16000	ug/Kg		09/29/95 2007	
Phenacetin	Solid	ND	16000	ug/Kg		09/29/95 2007	
Phenanthrene	Solid	ND	16000	ug/Kg		09/29/95 2007	
p-Phenylenediamine	Solid	ND	16000	ug/Kg		09/29/95 2007	
Phorate	Solid	ND	16000	ug/Kg		09/29/95 2007	
2-Picoline	Solid	ND	16000	ug/Kg		09/29/95 2007	

LABORATORY TESTS RESULTS
Report Date: 10/11/95

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Customer Sample ID.: DRAIN PIT-2 @12'-17'
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Laboratory Sample ID.: 954301-2
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TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS OF MEASURE	TEST METHOD	DATE ANALYZED	TECHNICIAN
Pronamide	Solid	ND	16000	ug/Kg		09/29/95 2007	
Pyrene	Solid	ND	16000	ug/Kg		09/29/95 2007	
Pyridine	Solid	ND	16000	ug/Kg		09/29/95 2007	
Safrole	Solid	ND	16000	ug/Kg		09/29/95 2007	
1,2,4,5-Tetrachlorobenzene	Solid	ND	16000	ug/Kg		09/29/95 2007	
o-Toluidine	Solid	ND	16000	ug/Kg		09/29/95 2007	
1,2,4-Trichlorobenzene	Solid	ND	16000	ug/Kg		09/29/95 2007	
O,O,O-Triethyl phosphorothioate	Solid	ND	16000	ug/Kg		09/29/95 2007	
1,3,5-Trinitrobenzene	Solid	ND	16000	ug/Kg		09/29/95 2007	
Benzoic acid	Solid	ND	82500	ug/Kg		09/29/95 2007	
4-Chloro-3-methylphenol	Solid	ND	16000	ug/Kg		09/29/95 2007	
2-Chlorophenol	Solid	ND	16000	ug/Kg		09/29/95 2007	
2,4-Dichlorophenol	Solid	ND	16000	ug/Kg		09/29/95 2007	
2,6-Dichlorophenol	Solid	ND	16000	ug/Kg		09/29/95 2007	
2,4-Dimethylphenol	Solid	ND	16000	ug/Kg		09/29/95 2007	
2,4-Dinitrophenol	Solid	ND	82500	ug/Kg		09/29/95 20	
2-Methyl-4,6-dinitrophenol	Solid	ND	82500	ug/Kg		09/29/95 2007	
2-Methylphenol (o-cresol)	Solid	ND	16000	ug/Kg		09/29/95 2007	
3 & 4 Methylphenol (m&p cresol)	Solid	ND	16000	ug/Kg		09/29/95 2007	
2-Nitrophenol	Solid	ND	16000	ug/Kg		09/29/95 2007	
4-Nitrophenol	Solid	ND	82500	ug/Kg		09/29/95 2007	
Pentachlorophenol	Solid	ND	82500	ug/Kg		09/29/95 2007	
Phenol	Solid	ND	16000	ug/Kg		09/29/95 2007	
2,3,4,6-Tetrachlorophenol	Solid	ND	16000	ug/Kg		09/29/95 2007	
2,4,5-Trichlorophenol	Solid	ND	16000	ug/Kg		09/29/95 2007	
2,4,6-Trichlorophenol	Solid	ND	16000	ug/Kg		09/29/95 2007	
Volatile Organics (Client Requested)					SW-846 8240		bfr
Acetonitrile	Solid	ND	500	ug/Kg		09/22/95 1834	
Acrolein	Solid	ND	200	ug/Kg		09/22/95 1834	
Acrylonitrile	Solid	ND	100	ug/Kg		09/22/95 1834	

CORE LABORATORIES

LABORATORY TESTS RESULTS
Report Date: 10/11/95

JOB NUMBER: 954301 PROJECT: ENRON-WTI/4230 CUSTOMER: Daniel B. Stevens & Associates ATTN: Bob Marley

Customer Sample ID.: DRAIN PIT-2 @12'-17'
Sample Date.....: 09/13/95
Sample Time.....: 16:45
Sample Matrix.....: Soil

Laboratory Sample ID.: 954301-2
Date Received.....: 09/18/95
Time Received.....: 10:00

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS OF MEASURE	TEST METHOD	DATE ANALYZED	TECHNICIAN
Acetone	Solid	800	500	ug/Kg		09/22/95 1834	
Allyl chloride	Solid	ND	100	ug/Kg		09/22/95 1834	
Benzene	Solid	ND	20	ug/Kg		09/22/95 1834	
Benzyl chloride	Solid	ND	20	ug/Kg		09/22/95 1834	
Bromobenzene	Solid	ND	20	ug/Kg		09/22/95 1834	
Bromochloromethane	Solid	ND	20	ug/Kg		09/22/95 1834	
Bromodichloromethane	Solid	ND	20	ug/Kg		09/22/95 1834	
Bromoform	Solid	ND	20	ug/Kg		09/22/95 1834	
Bromomethane	Solid	ND	50	ug/Kg		09/22/95 1834	
Methyl ethyl ketone (2-Butanone)	Solid	ND	500	ug/Kg		09/22/95 1834	
Carbon disulfide	Solid	ND	20	ug/Kg		09/22/95 1834	
Carbon tetrachloride	Solid	ND	20	ug/Kg		09/22/95 1834	
Chlorobenzene	Solid	ND	20	ug/Kg		09/22/95 1834	
Chloroethane	Solid	ND	50	ug/Kg		09/22/95 1834	
2-Chloroethylvinyl ether	Solid	ND	20	ug/Kg		09/22/95 1834	
Chloroform	Solid	ND	20	ug/Kg		09/22/95 1834	
Chloromethane	Solid	ND	20	ug/Kg		09/22/95 1834	
2-Chloro-1,3-butadiene (chloroprene)	Solid	ND	20	ug/Kg		09/22/95 1834	
Dibromochloromethane	Solid	ND	20	ug/Kg		09/22/95 1834	
1,2-Dibromoethane (EDB)	Solid	ND	20	ug/Kg		09/22/95 1834	
1,2-Dibromo-3-chloropropane	Solid	ND	20	ug/Kg		09/22/95 1834	
Dibromomethane	Solid	ND	20	ug/Kg		09/22/95 1834	
trans-1,4-Dichloro-2-butene	Solid	ND	200	ug/Kg		09/22/95 1834	
Dichlorodifluoromethane	Solid	ND	50	ug/Kg		09/22/95 1834	
1,1-Dichloroethane	Solid	ND	20	ug/Kg		09/22/95 1834	
1,2-Dichloroethane	Solid	ND	20	ug/Kg		09/22/95 1834	
1,1-Dichloroethene	Solid	ND	20	ug/Kg		09/22/95 1834	
cis-1,2-Dichloroethene	Solid	ND	20	ug/Kg		09/22/95 1834	
trans-1,2-Dichloroethene	Solid	ND	20	ug/Kg		09/22/95 1834	
1,2-Dichloropropane	Solid	ND	20	ug/Kg		09/22/95 1834	
cis-1,3-Dichloropropene	Solid	ND	20	ug/Kg		09/22/95 1834	

LABORATORY TESTS RESULTS
Report Date: 10/11/95

JOB NUMBER: 954301 PROJECT: ENRON-WTI/4230 CUSTOMER: Daniel B. Stevens & Associates ATTN: Bob Marley

Customer Sample ID.: DRAIN PIT-2 @12'-17'
Sample Date.....: 09/13/95
Sample Time.....: 16:45
Sample Matrix.....: Soil

Laboratory Sample ID.: 954301-2
Date Received.....: 09/18/95
Time Received.....: 10:00

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS OF MEASURE	TEST METHOD	DATE ANALYZED	TECHNICIAN
trans-1,3-Dichloropropene	Solid	ND	20	ug/Kg		09/22/95 1834	
Ethylbenzene	Solid	40	20	ug/Kg		09/22/95 1834	
Ethyl methacrylate	Solid	ND	20	ug/Kg		09/22/95 1834	
2-Hexanone	Solid	ND	20	ug/Kg		09/22/95 1834	
Iodomethane	Solid	ND	20	ug/Kg		09/22/95 1834	
Isobutyl alcohol	Solid	ND	200	ug/Kg		09/22/95 1834	
Methylacrylonitrile	Solid	ND	200	ug/Kg		09/22/95 1834	
Methylene chloride	Solid	ND	20	ug/Kg		09/22/95 1834	
Methyl methacrylate	Solid	ND	20	ug/Kg		09/22/95 1834	
4-Methyl-2-pentanone (MIBK)	Solid	ND	200	ug/Kg		09/22/95 1834	
Pentachloroethane	Solid	ND	20	ug/Kg		09/22/95 1834	
Propionitrile	Solid	ND	500	ug/Kg		09/22/95 1834	
Styrene	Solid	ND	20	ug/Kg		09/22/95 1834	
1,1,1,2-Tetrachloroethane	Solid	ND	20	ug/Kg		09/22/95 1834	
1,1,2,2-Tetrachloroethane	Solid	ND	20	ug/Kg		09/22/95 1834	
Tetrachloroethene	Solid	380	20	ug/Kg		09/22/95 1834	
Toluene	Solid	30	20	ug/Kg		09/22/95 1834	
1,1,1-Trichloroethane	Solid	ND	20	ug/Kg		09/22/95 1834	
1,1,2-Trichloroethane	Solid	ND	20	ug/Kg		09/22/95 1834	
Trichloroethene	Solid	ND	20	ug/Kg		09/22/95 1834	
Trichlorofluoromethane	Solid	ND	50	ug/Kg		09/22/95 1834	
1,2,3-Trichloropropane	Solid	ND	20	ug/Kg		09/22/95 1834	
Vinyl acetate	Solid	ND	200	ug/Kg		09/22/95 1834	
Vinyl chloride	Solid	ND	50	ug/Kg		09/22/95 1834	
Xylenes (total)	Solid	260	20	ug/Kg		09/22/95 1834	

CORE LABORATORIES

LABORATORY TESTS RESULTS
Report Date: 10/11/95

JOB NUMBER: 954301 PROJECT: ENRON-WTI/4230 CUSTOMER: Daniel B. Stevens & Associates ATTN: Bob Marley

Customer Sample ID.: FILTER PIT-1 @4'-8'
Sample Date.....: 09/14/95
Sample Time.....: 08:25
Sample Matrix.....: Soil

Laboratory Sample ID.: 954301-3
Date Received.....: 09/18/95
Time Received.....: 10:00

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS OF MEASURE	TEST METHOD	DATE ANALYZED	TECHNICIAN
Sulfide	Solid	2430	50	mg/Kg	SW-846 9030	10/10/95 0800	* cc
Acid Digestion: Solids	Solid	Complete			SW-846 3050	09/22/95 0220	lmt
Mercury (Hg)	Solid	0.12	0.02	mg/Kg	SW-846 7471	09/28/95 1058	lmt
Aluminum (Al)	Solid	1230	5	mg/Kg	SW-846 6010	09/28/95 2002	gag
Antimony (Sb)	Solid	<10	10	mg/Kg	SW-846 6010	09/28/95 2002	gag
Arsenic (As)	Solid	6	5	mg/Kg	SW-846 6010	09/28/95 2002	gag
Barium (Ba)	Solid	118	1	mg/Kg	SW-846 6010	09/28/95 2002	gag
Beryllium (Be)	Solid	<0.5	0.5	mg/Kg	SW-846 6010	09/28/95 2002	gag
Cadmium (Cd)	Solid	2.3	0.5	mg/Kg	SW-846 6010	09/28/95 2002	gag
Chromium (Cr)	Solid	22	1	mg/Kg	SW-846 6010	09/28/95 2002	gag
Cobalt (Co)	Solid	<3	3	mg/Kg	SW-846 6010	09/28/95 2002	gag
Copper (Cu)	Solid	103	1	mg/Kg	SW-846 6010	09/28/95 2002	gag
Lead (Pb)	Solid	66	5	mg/Kg	SW-846 6010	09/28/95 2002	gag
Nickel (Ni)	Solid	<4	4	mg/Kg	SW-846 6010	09/28/95 2002	gag
Selenium (Se)	Solid	10	10	mg/Kg	SW-846 6010	09/28/95 2002	gag
Silver (Ag)	Solid	<1	1	mg/Kg	SW-846 6010	09/28/95 2002	gag

CORE LABORATORIES

LABORATORY TESTS RESULTS
Report Date: 10/11/95

JOB NUMBER: 954301 PROJECT: ENRON-WTI/4230 CUSTOMER: Daniel B. Stevens & Associates ATTN: Bob Marley

Customer Sample ID.: FILTER PIT-1 @4'-8'
Sample Date.....: 09/14/95
Sample Time.....: 08:25
Sample Matrix.....: Soil

Laboratory Sample ID.: 954301-3
Date Received.....: 09/18/95
Time Received.....: 10:00

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS OF MEASURE	TEST METHOD	DATE ANALYZED	TECHNICIAN
Thallium (Tl)	Solid	20	10	mg/Kg	SW-846 6010	09/28/95 2002	gag
Tin (Sn)	Solid	22	5	mg/Kg	SW-846 6010	09/28/95 2002	gag
Vanadium (V)	Solid	<5	5	mg/Kg	SW-846 6010	09/28/95 2002	gag
Zinc (Zn)	Solid	121	1	mg/Kg	SW-846 6010	09/28/95 2002	gag
Total Recoverable Petroleum Hydrocarbons	Solid	280000	8000	mg/Kg	EPA 418.1	09/28/95 0800	jbd
Cyanide (Colorimetric, Manual)					SW-846 9010		kds
Cyanide (CN)	Solid	<0.4	0.4	mg/Kg		09/26/95 0800	
Extraction (Ultrasonic) PCBs					SW-846 3550		jbd
Ultrasonic Extraction	Solid	ND				09/21/95 0000	
PCB Analysis					SW-846 8080		lb
Aroclor 1016	Solid	ND	170	ug/Kg		09/26/95 0403	
Aroclor 1221	Solid	ND	170	ug/Kg		09/26/95 0403	
Aroclor 1232	Solid	ND	170	ug/Kg		09/26/95 0403	
Aroclor 1242	Solid	ND	170	ug/Kg		09/26/95 0403	
Aroclor 1248	Solid	ND	170	ug/Kg		09/26/95 0403	
Aroclor 1254	Solid	ND	170	ug/Kg		09/26/95 0403	
Aroclor 1260	Solid	ND	170	ug/Kg		09/26/95 0403	
Aroclor 1262	Solid	ND	170	ug/Kg		09/26/95 0403	
Aroclor 1268	Solid	ND	170	ug/Kg		09/26/95 0403	
Extraction (Ultrasonic) SVOCs					SW-846 3550		jbd
Ultrasonic Extraction	Solid	ND	0			09/22/95 0000	
Semivolatile Organics (Client List)					SW-846 8270		mla

CORE LABORATORIES

LABORATORY TESTS RESULTS
Report Date: 10/11/95

JOB NUMBER: 954301 PROJECT: ENRON-WTI/4230 CUSTOMER: Daniel B. Stevens & Associates ATTN: Bob Marley

Customer Sample ID.: FILTER PIT-1 @4'-8'
Sample Date.....: 09/14/95
Sample Time.....: 08:25
Sample Matrix.....: Soil

Laboratory Sample ID.: 954301-3
Date Received.....: 09/18/95
Time Received.....: 10:00

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS OF MEASURE	TEST METHOD	DATE ANALYZED	TECHNICIAN
Acenaphthene	Solid	ND	82000	ug/Kg		09/29/95 2105	
Acenaphthylene	Solid	ND	82000	ug/Kg		09/29/95 2105	
Acetophenone	Solid	ND	82000	ug/Kg		09/29/95 2105	
4-Aminobiphenyl	Solid	ND	82000	ug/Kg		09/29/95 2105	
Aniline	Solid	ND	82000	ug/Kg		09/29/95 2105	
Anthracene	Solid	ND	82000	ug/Kg		09/29/95 2105	
Benzidine	Solid	ND	412000	ug/Kg		09/29/95 2105	
Benzo(a)anthracene	Solid	ND	82000	ug/Kg		09/29/95 2105	
Benzo(b)fluoranthene	Solid	ND	82000	ug/Kg		09/29/95 2105	
Benzo(j)fluoranthene	Solid	ND	82000	ug/Kg		09/29/95 2105	
Benzo(k)fluoranthene	Solid	ND	82000	ug/Kg		09/29/95 2105	
Benzo(ghi)perylene	Solid	ND	82000	ug/Kg		09/29/95 2105	
Benzo(a)pyrene	Solid	ND	82000	ug/Kg		09/29/95 2105	
Benzyl alcohol	Solid	ND	160000	ug/Kg		09/29/95 2105	
Butyl benzyl phthalate	Solid	ND	82000	ug/Kg		09/29/95 2105	
Bis(2-chloroethoxy)methane	Solid	ND	82000	ug/Kg		09/29/95 2105	
Bis(2-chloroethyl)ether	Solid	ND	82000	ug/Kg		09/29/95 2105	
Bis(2-chloroisopropyl)ether	Solid	ND	82000	ug/Kg		09/29/95 2105	
Bis(2-ethylhexyl)phthalate	Solid	ND	82000	ug/Kg		09/29/95 2105	
4-Bromophenyl phenyl ether	Solid	ND	82000	ug/Kg		09/29/95 2105	
4-Chloroaniline	Solid	ND	82000	ug/Kg		09/29/95 2105	
Chlorobenzilate	Solid	ND	82000	ug/Kg		09/29/95 2105	
1-Chloronaphthalene	Solid	ND	82000	ug/Kg		09/29/95 2105	
2-Chloronaphthalene	Solid	ND	82000	ug/Kg		09/29/95 2105	
4-Chlorophenyl phenyl ether	Solid	ND	82000	ug/Kg		09/29/95 2105	
Chrysene	Solid	ND	82000	ug/Kg		09/29/95 2105	
Diallate	Solid	ND	82000	ug/Kg		09/29/95 2105	
Dibenzo(a,j)acridine	Solid	ND	82000	ug/Kg		09/29/95 2105	
Dibenzo(a,h)anthracene	Solid	ND	82000	ug/Kg		09/29/95 2105	
Dibenzofuran	Solid	ND	82000	ug/Kg		09/29/95 2105	
1,2-Dichlorobenzene	Solid	ND	82000	ug/Kg		09/29/95 2105	

CORE LABORATORIES

LABORATORY TESTS RESULTS
Report Date: 10/11/95

JOB NUMBER: 954301 PROJECT: ENRON-WTI/4230 CUSTOMER: Daniel B. Stevens & Associates ATTN: Bob Marley

Customer Sample ID.: FILTER PIT-1 @4'-8'
Sample Date.....: 09/14/95
Sample Time.....: 08:25
Sample Matrix.....: Soil

Laboratory Sample ID.: 954301-3
Date Received.....: 09/18/95
Time Received.....: 10:00

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS OF MEASURE	TEST METHOD	DATE ANALYZED	TECHNICIAN
1,3-Dichlorobenzene	Solid	ND	82000	ug/Kg		09/29/95 2105	
1,4-Dichlorobenzene	Solid	ND	82000	ug/Kg		09/29/95 2105	
3,3-Dichlorobenzidine	Solid	ND	82000	ug/Kg		09/29/95 2105	
Diethyl phthalate	Solid	ND	82000	ug/Kg		09/29/95 2105	
p-Dimethylaminoazobenzene	Solid	ND	82000	ug/Kg		09/29/95 2105	
Dimethoate	Solid	ND	160000	ug/Kg		09/29/95 2105	
7,12-Dimethylbenz(a)anthracene	Solid	ND	82000	ug/Kg		09/29/95 2105	
alpha, alpha-Dimethylphenethylamine	Solid	ND	82000	ug/Kg		09/29/95 2105	
Dimethyl phthalate	Solid	ND	82000	ug/Kg		09/29/95 2105	
Di-n-butyl phthalate	Solid	ND	82000	ug/Kg		09/29/95 2105	
Di-n-octyl phthalate	Solid	ND	82000	ug/Kg		09/29/95 2105	
2,4-Dinitrotoluene	Solid	ND	82000	ug/Kg		09/29/95 2105	
2,6-Dinitrotoluene	Solid	ND	82000	ug/Kg		09/29/95 2105	
Dinoseb (DNBP)	Solid	ND	82000	ug/Kg		09/29/95 2105	
Diphenylamine	Solid	ND	82000	ug/Kg		09/29/95 2105	
1,2-Diphenylhydrazine	Solid	ND	82000	ug/Kg		09/29/95 2105	
Disulfoton	Solid	ND	82000	ug/Kg		09/29/95 2105	
Ethyl methane sulfonate	Solid	ND	82000	ug/Kg		09/29/95 2105	
Fluoranthene	Solid	ND	82000	ug/Kg		09/29/95 2105	
Fluorene	Solid	ND	82000	ug/Kg		09/29/95 2105	
Hexachlorobenzene	Solid	ND	82000	ug/Kg		09/29/95 2105	
Hexachlorobutadiene	Solid	ND	82000	ug/Kg		09/29/95 2105	
Hexachlorocyclopentadiene	Solid	ND	82000	ug/Kg		09/29/95 2105	
Hexachloroethane	Solid	ND	82000	ug/Kg		09/29/95 2105	
Hexachlorophene	Solid	ND	820000	ug/Kg		09/29/95 2105	
Hexachloropropene	Solid	ND	82000	ug/Kg		09/29/95 2105	
Indeno(1,2,3-cd)pyrene	Solid	ND	82000	ug/Kg		09/29/95 2105	
Isodrin	Solid	ND	82000	ug/Kg		09/29/95 2105	
Isophorone	Solid	ND	82000	ug/Kg		09/29/95 2105	
Isosafrole	Solid	ND	82000	ug/Kg		09/29/95 2105	
Kepone	Solid	ND	412000	ug/Kg		09/29/95 2105	

CORE LABORATORIES

LABORATORY TESTS RESULTS
Report Date: 10/11/95

JOB NUMBER: 954301 PROJECT: ENRON-WTI/4230 CUSTOMER: Daniel B. Stevens & Associates ATTN: Bob Marley

Customer Sample ID.: FILTER PIT-3 @4'-8'
Sample Date.....: 09/14/95
Sample Time.....: 10:20
Sample Matrix.....: Soil

Laboratory Sample ID.: 954301-4
Date Received.....: 09/18/95
Time Received.....: 10:00

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS OF MEASURE	TEST METHOD	DATE ANALYZED	TECHNICIAN
Sulfide	Solid	1430	50	mg/Kg	SW-846 9030	10/10/95 0800	* cc
Acid Digestion: Solids	Solid	Complete			SW-846 3050	09/22/95 0220	lmt
Mercury (Hg)	Solid	0.05	0.02	mg/Kg	SW-846 7471	09/28/95 1100	lmt
Aluminum (Al)	Solid	1200	5	mg/Kg	SW-846 6010	09/28/95 2003	gag
Antimony (Sb)	Solid	90	10	mg/Kg	SW-846 6010	09/28/95 2003	gag
Arsenic (As)	Solid	46	5	mg/Kg	SW-846 6010	09/28/95 2003	gag
Barium (Ba)	Solid	146	1	mg/Kg	SW-846 6010	09/28/95 2003	gag
Beryllium (Be)	Solid	<0.5	0.5	mg/Kg	SW-846 6010	09/28/95 2003	gag
Cadmium (Cd)	Solid	8.4	0.5	mg/Kg	SW-846 6010	09/28/95 2003	gag
Chromium (Cr)	Solid	31	1	mg/Kg	SW-846 6010	09/28/95 2003	gag
Cobalt (Co)	Solid	14	3	mg/Kg	SW-846 6010	09/28/95 2003	gag
Copper (Cu)	Solid	86	1	mg/Kg	SW-846 6010	09/28/95 2003	gag
Lead (Pb)	Solid	27	5	mg/Kg	SW-846 6010	09/28/95 2003	gag
Nickel (Ni)	Solid	18	4	mg/Kg	SW-846 6010	09/28/95 2003	gag
Selenium (Se)	Solid	130	10	mg/Kg	SW-846 6010	09/28/95 2003	gag
Silver (Ag)	Solid	8	1	mg/Kg	SW-846 6010	09/28/95 2003	gag

LABORATORY TESTS RESULTS
Report Date: 10/11/95

JOB NUMBER: 954301 PROJECT: ENRON-WTI/4230 CUSTOMER: Daniel B. Stevens & Associates ATTN: Bob Marley

Customer Sample ID.: FILTER PIT-3 @4'-8'
Sample Date.....: 09/14/95
Sample Time.....: 10:20
Sample Matrix.....: Soil

Laboratory Sample ID.: 954301-4
Date Received.....: 09/18/95
Time Received.....: 10:00

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS OF MEASURE	TEST METHOD	DATE ANALYZED	TECHNICIAN
Thallium (Tl)	Solid	260	10	mg/Kg	SW-846 6010	09/28/95 2003	gag
Tin (Sn)	Solid	66	5	mg/Kg	SW-846 6010	09/28/95 2003	gag
Vanadium (V)	Solid	21	5	mg/Kg	SW-846 6010	09/28/95 2003	gag
Zinc (Zn)	Solid	607	5	mg/Kg	SW-846 6010	09/28/95 2008	gag
Total Recoverable Petroleum Hydrocarbons	Solid	72000	2000	mg/Kg	EPA 418.1	09/28/95 0800	jbd
Cyanide (Colorimetric, Manual)					SW-846 9010		kds
Cyanide (CN)	Solid	<0.4	0.4	mg/Kg		09/26/95 0800	
Extraction (Ultrasonic) PCBs					SW-846 3550		jbd
Ultrasonic Extraction	Solid	ND				09/21/95 0000	
PCB Analysis					SW-846 8080		lb
Aroclor 1016	Solid	ND	170	ug/Kg		09/26/95 0432	
Aroclor 1221	Solid	ND	170	ug/Kg		09/26/95 0432	
Aroclor 1232	Solid	ND	170	ug/Kg		09/26/95 0432	
Aroclor 1242	Solid	ND	170	ug/Kg		09/26/95 0432	
Aroclor 1248	Solid	ND	170	ug/Kg		09/26/95 0432	
Aroclor 1254	Solid	ND	170	ug/Kg		09/26/95 0432	
Aroclor 1260	Solid	ND	170	ug/Kg		09/26/95 0432	
Aroclor 1262	Solid	ND	170	ug/Kg		09/26/95 0432	
Aroclor 1268	Solid	ND	170	ug/Kg		09/26/95 0432	
Extraction (Ultrasonic) SVOCs					SW-846 3550		jbd
Ultrasonic Extraction	Solid	ND	0			09/22/95 0000	
Semivolatile Organics (Client List)					SW-846 8270		mla

CORE LAB

CORE LABORATORIES

QUALITY CONTROL REPORT

Report Date: 10/11/95

Job Number....: 954301 Project....: ENRON-WTI/4230

Method Description.: PCB Analysis
Method Code.....: 8080PC
Batch Code.....: 2194

Status.....: RVWD
QC Code.....: 8000
Units.....: ug/L

Calc Code.....:
Equipment Code..:
Import Code.....:

Analyst ...: lb

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date Time
MB	Method Blank	0692				09/23/95 1202

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Aroclor 1016	0.5	ND			
Aroclor 1221	0.5	ND			
Aroclor 1232	0.5	ND			
Aroclor 1242	0.5	ND			
Aroclor 1248	0.5	ND			
Aroclor 1254	0.5	ND			
Aroclor 1260	0.5	ND			
Aroclor 1262	0.5	ND			
Aroclor 1268	0.5	ND			

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date Time
SB	Spiked Blank	P950629B				09/25/95 1056

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Aroclor 1248	0.5	0.506	0.5000			101.2

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date Time
SBD	Spiked Blank Duplicate	P950629B				09/25/95 1125

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC	RPD
Aroclor 1248	0.5	0.570	0.5000	0.506	0.506	114.0	11.9

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date Time
MB	Method Blank	0683				09/26/95 1500

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Aroclor 1016	0.5	ND			
Aroclor 1221	0.5	ND			
Aroclor 1232	0.5	ND			

QUALITY CONTROL REPORT
Report Date: 10/11/95
Job Number....: 954301 Project....: ENRON-WTI/4230

Method Description.: PCB Analysis
Method Code.....: 8080PC
Batch Code.....: 2194
Status.....: RVWD
QC Code.....: 8000
Units.....: ug/L
Calc Code.....:
Equipment Code..:
Import Code.....:
Analyst ...: lb

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
MB	Method Blank	0683				09/26/95	1500

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Aroclor 1242	0.5	ND			
Aroclor 1248	0.5	ND			
Aroclor 1254	0.5	ND			
Aroclor 1260	0.5	ND			
Aroclor 1262	0.5	ND			
Aroclor 1268	0.5	ND			

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
SB	Spiked Blank	P950629B				09/26/95	1529

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Aroclor 1248	0.5	0.482	0.5000			96.4

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
SBD	Spiked Blank Duplicate	P950629B				09/26/95	1559

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC	RPD
Aroclor 1248	0.5	0.478	0.5000	0.482	0.482	95.6	0.8

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
MB	Method Blank	0706				09/26/95	1727

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Aroclor 1016	0.5	ND			
Aroclor 1221	0.5	ND			
Aroclor 1232	0.5	ND			
Aroclor 1242	0.5	ND			
Aroclor 1248	0.5	ND			
Aroclor 1254	0.5	ND			

CORE LABORATORIES

QUALITY CONTROL REPORT

Report Date: 10/11/95

Job Number....: 954301 Project....: ENRON-WTI/4230

Method Description.: PCB Analysis
Method Code.....: 8080PC
Batch Code.....: 2194

Status.....: RVWD
QC Code.....: 8000
Units.....: ug/L

Calc Code.....:
Equipment Code..:
Import Code.....:

Analyst ...: lb

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
MB	Method Blank	0706				09/26/95	1727

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Aroclor 1260	0.5	ND			
Aroclor 1262	0.5	ND			
Aroclor 1268	0.5	ND			

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
SB	Spiked Blank	P950629B				09/26/95	1756

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Aroclor 1248	0.5	0.466	0.5000			93.2

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
SBD	Spiked Blank Duplicate	P950629B				09/26/95	0825

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC	RPD
Aroclor 1248	0.5	0.489	0.5000	0.466	0.466	97.8	4.8

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CORE LABORATORIES

QUALITY CONTROL REPORT
Report Date: 10/11/95
Job Number....: 954301 Project....: ENRON-WTI/4230

Method Description.: Volatile Organics (Client Requested) Status.....: RVWD Calc Code.....: Analyst ...: bfr
Method Code.....: 8240C QC Code.....: 8000 Equipment Code..:
Batch Code.....: 2232 Units.....: ug/L Import Code.....:

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date Time
RS	Reference Standard	V950922B		Solid		09/22/95 1409

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Benzene	1	52.5	50.3			104.4
Bromodichloromethane	5	52.4	50.3			104.2
Bromoform	5	50.4	50.2			100.4
Carbon tetrachloride	5	53.2	50.3			105.8
Chlorobenzene	5	54.6	50.3			108.5
Chloroform	5	52.6	50.2			104.8
Dibromochloromethane	5	49.9	50.3			99.2
1,1-Dichloroethane	5	52.0	50.2			103.6
1,2-Dichloroethane	5	54.6	50.3			108.5
1,1-Dichloroethene	5	51.6	50.3			102.6
trans-1,2-Dichloroethene	5	51.0	50.3			101.4
1,2-Dichloropropane	5	53.1	50.3			105.6
Ethylbenzene	5	44.4	50.3			88.3
Methylene chloride	5	46.9	50.3			93.2
1,1,2,2-Tetrachloroethane	5	54.5	50.3			108.3
Tetrachloroethene	5	32.6	50.3			64.8
Toluene	5	53.5	50.3			106.4
1,1,1-Trichloroethane	5	54.1	50.3			107.6
1,1,2-Trichloroethane	5	51.9	50.3			103.2
Trichloroethene	5	53.4	50.3			106.2

MB	Method Blank			Solid		09/22/95 1444

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Acetonitrile	100	ND			
Acrolein	50	ND			
Acrylonitrile	20	ND			
Acetone	100	ND			
Allyl chloride	20	ND			
Benzene	1	ND			

CORE LABORATORIES

QUALITY CONTROL REPORT
Report Date: 10/11/95
Job Number....: 954301 Project....: ENRON-WTI/4230

Method Description..: Volatile Organics (Client Requested) Status.....: RVWD Calc Code.....: Analyst ...: bfr
Method Code.....: 8240C QC Code.....: 8000 Equipment Code..:
Batch Code.....: 2232 Units.....: ug/L Import Code.....:

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
STD	Spiked Blank Duplicate	V950922B		Solid		09/22/95	1554

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC	RPD
Benzene	1	53.2	50.3		55.1	105.8	4
Chlorobenzene	5	53.8	50.3		55.2	107.0	3
1,1-Dichloroethene	5	50.6	50.3		53.7	100.6	6
Toluene	5	53.4	50.3		55.2	106.2	3
Trichloroethene	5	53.6	50.3		55.0	106.6	3

QUALITY CONTROL REPORT
Report Date: 10/11/95
Job Number....: 954301 Project....: ENRON-WTI/4230

Method Description.: Volatile Organics (Client Requested) Status.....: RVWD Calc Code.....: Analyst ...: bfr
Method Code.....: 8240C QC Code.....: 8000 Equipment Code..:
Batch Code.....: 2242 Units.....: ug/L Import Code.....:

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
MB	Method Blank			Solid		09/25/95	1705

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
1,1-Dichloroethane	5	ND			
Tetrachloroethene	5	ND			
1,1,1-Trichloroethane	5	ND			

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
MLE	Medium Level Extraction Blank			Solid	125	09/25/95	2344

Test Description	Detection Limit	QC Value	Diluted Value	Orig. Value	Alt. Value
1,1-Dichloroethane	5	ND			
Tetrachloroethene	5	ND			
1,1,1-Trichloroethane	5	ND			

CORE LABORATORIES

QUALITY CONTROL REPORT

Report Date: 10/11/95

Job Number....: 954301 Project....: ENRON-WTI/4230

Method Description.: Cyanide (Colorimetric, Manual) Status.....: RVWD Calc Code.....: Analyst ...: kds
Method Code.....: 9010 QC Code.....: STD Equipment Code..:
Batch Code.....: 2246 Units.....: mg/L Import Code.....:

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
ICL	Initial Calibration/Lab Control Sample	G950712A			200	09/26/95	0800

Test Description	Detection Limit	QC Value	Diluted Value	Orig. Value	Alt. Value	% REC
Cyanide (CN)	0.02	0.4855	0.50000			97.1

ICB	Initial Calibration Blank					09/26/95	0800

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Cyanide (CN)	0.02	0.0031			

DSC	Distilled Std. Check	G950828A			200	09/26/95	0800

Test Description	Detection Limit	QC Value	Diluted Value	Orig. Value	Alt. Value	% REC
Cyanide (CN)	0.02	0.4611	0.50000			92.2

MB	Method Blank					09/26/95	0800

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Cyanide (CN)	0.02	0.0036			

MD	Method Duplicate		954301-4	Solid	20	09/26/95	0800

Test Description	Detection Limit	QC Value	Diluted Value	Orig. Value	Alt. Value	RPD	ABS Diff.
Cyanide (CN)	0.02	0.0		0.0			0

QUALITY CONTROL REPORT

Report Date: 10/11/95

Job Number....: 954301 Project....: ENRON-WTI/4230

Method Description.: Cyanide (Colorimetric, Manual)
Method Code.....: 9010
Batch Code.....: 2246

Status.....: RVWD
QC Code.....: STD
Units.....: mg/L

Calc Code.....:
Equipment Code..:
Import Code.....:

Analyst ...: kds

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
MS	Matrix Spike	G950828A	954301-4	Solid	400	09/26/95	0800

Test Description	Detection Limit	QC Value	Diluted Value	Orig. Value	Alt. Value	% REC
Cyanide (CN)	0.02	0.2	0.25000	0.0		80.0

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
CCV	Continuing Calibration Verification	G950828A			333.3333	09/26/95	0800

Test Description	Detection Limit	QC Value	Diluted Value	Orig. Value	Alt. Value	% REC
Cyanide (CN)	0.02	0.2846	0.30000			94.9

QC Type	Description					Date	Time
CCB	Continuing Calibration Blank					09/26/95	0800

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Cyanide (CN)	0.02	0.0036			

CORE LABORATORIES

QUALITY CONTROL REPORT

Report Date: 10/11/95

Job Number....: 954301 Project....: ENRON-WTI/4230

Method Description.: Mercury (CVAA)
Method Code.....: 7470
Batch Code.....: 2272

Status.....: RVWD
QC Code.....: MET
Units.....: mg/L

Calc Code.....:
Equipment Code..:
Import Code.....:

Analyst ...: lmt

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
ICV	Initial Calibration Verification	950911B			10	09/28/95	0905

Test Description	Detection Limit	QC Value	Diluted Value	Orig. Value	Alt. Value	% REC
Mercury (Hg)	0.0002	0.00364	0.00400			91.0

ICB	Initial Calibration Blank					09/28/95	0907

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Mercury (Hg)	0.0002	-0.00016			

CCV	Continuing Calibration Verification	1013P			4000	09/28/95	0910

Test Description	Detection Limit	QC Value	Diluted Value	Orig. Value	Alt. Value	% REC
Mercury (Hg)	0.0002	0.00241	0.00250			96.4

CCB	Continuing Calibration Blank					09/28/95	0912

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Mercury (Hg)	0.0002	-0.00016			

CRA	Contract Required Detection Limit	950927C			500	09/28/95	0915

Test Description	Detection Limit	QC Value	Diluted Value	Orig. Value	Alt. Value	% REC
Mercury (Hg)	0.0002	0.00019	0.00020			95.0

QUALITY CONTROL REPORT

Report Date: 10/11/95

Job Number....: 954301 Project....: ENRON-WTI/4230

Method Description.: Mercury (CVAA)
Method Code.....: 7470
Batch Code.....: 2272

Status.....: RVWD
QC Code.....: MET
Units.....: mg/L

Calc Code.....:
Equipment Code..:
Import Code.....:

Analyst ...: lmt

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date Time
MS	Matrix Spike	950927C	954262-17	Dissolved	20	09/28/95 0920

Test Description	Detection Limit	QC Value	Diluted Value	Orig. Value	Alt. Value	% REC
Mercury (Hg)	0.0002	0.00490	0.00500	-0.00002		98.4

MSD	Matrix Spike Duplicate	950927C	954262-18	Dissolved	20	09/28/95 0922

Test Description	Detection Limit	QC Value	Diluted Value	Orig. Value	Alt. Value	% REC	RPD
Mercury (Hg)	0.0002	0.00458	0.00500	-0.00002	0.00490	92.0	6.8

MS	Matrix Spike	950927C	954262-14	Total	20	09/28/95 0927

Test Description	Detection Limit	QC Value	Diluted Value	Orig. Value	Alt. Value	% REC
Mercury (Hg)	0.0002	0.00452	0.00500	0.00009		88.6

MSD	Matrix Spike Duplicate	950927C	954262-15	Total	20	09/28/95 0929

Test Description	Detection Limit	QC Value	Diluted Value	Orig. Value	Alt. Value	% REC	RPD
Mercury (Hg)	0.0002	0.00482	0.00500	0.00009	0.00452	94.6	6.4

MD	Method Duplicate		954333-1	Total		09/28/95 0937

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	RPD	ABS Diff.
Mercury (Hg)	0.0002	0.00028		0.00028			0.00000

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CORE LABORATORIES

QUALITY CONTROL REPORT

Report Date: 10/11/95

Job Number....: 954301 Project....: ENRON-WTI/4230

Method Description.: Mercury (CVAA) Status.....: RVWD Calc Code.....: Analyst ...: lmt
Method Code.....: 7470 QC Code.....: MET Equipment Code..:
Batch Code.....: 2272 Units.....: mg/L Import Code.....:

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
CCV	Continuing Calibration Verification	1013P			4000	09/28/95	0939

Test Description	Detection Limit	QC Value	Diluted Value	Orig. Value	Alt. Value	% REC
Mercury (Hg)	0.0002	0.00247	0.00250			98.8

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank					09/28/95	0942

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Mercury (Hg)	0.0002	0.00000			

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
MS	Matrix Spike	950927C	954333-2	Total	20	09/28/95	0947

Test Description	Detection Limit	QC Value	Diluted Value	Orig. Value	Alt. Value	% REC
Mercury (Hg)	0.0002	0.00452	0.00500	-0.0001		92.4

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
CCV	Continuing Calibration Verification	1013P			4000	09/28/95	1009

Test Description	Detection Limit	QC Value	Diluted Value	Orig. Value	Alt. Value	% REC
Mercury (Hg)	0.0002	0.00247	0.00250			98.8

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank					09/28/95	1011

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Mercury (Hg)	0.0002	-0.00016			

QUALITY CONTROL REPORT

Report Date: 10/11/95

Job Number....: 954301 Project....: ENRON-WTI/4230

Method Description.: Mercury (CVAA)
Method Code.....: 7470
Batch Code.....: 2272

Status.....: RVWD
QC Code.....: MET
Units.....: mg/L

Calc Code.....:
Equipment Code..:
Import Code.....:

Analyst ...: lmt

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date Time
MD	Method Duplicate		954323-1	Dissolved		09/28/95 1023

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	RPD	ABS Diff.
Mercury (Hg)	0.0002	-0.0002		-0.00005			0.00015

MS	Matrix Spike	950927C	954323-2	Dissolved	20	09/28/95 1028

Test Description	Detection Limit	QC Value	Diluted Value	Orig. Value	Alt. Value	% REC
Mercury (Hg)	0.0002	0.00460	0.00500	0.00013		89.4

CCV	Continuing Calibration Verification	1013P			4000	09/28/95 1038

Test Description	Detection Limit	QC Value	Diluted Value	Orig. Value	Alt. Value	% REC
Mercury (Hg)	0.0002	0.00241	0.00250			96.4

CCB	Continuing Calibration Blank					09/28/95 1041

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Mercury (Hg)	0.0002	-0.00013			

LCS	Laboratory Control Sample	950614J				09/28/95 1045

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Mercury (Hg)	0.0002	0.00184	0.00192			95.8

QUALITY CONTROL REPORT

Report Date: 10/11/95

Job Number....: 954301 Project....: ENRON-WTI/4230

Method Description.: Mercury (CVAA)
Method Code.....: 7470
Batch Code.....: 2272

Status.....: RVWD
QC Code.....: MET
Units.....: mg/L

Calc Code.....:
Equipment Code..:
Import Code.....:

Analyst ...: lmt

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
MD	Method Duplicate		954341-1	Solid		09/28/95	1048

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	RPD	ABS Diff.
Mercury (Hg)	0.0002	-0.00005		-0.0003			0.00025

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
MS	Matrix Spike	950927C	954341-3	Solid	20	09/28/95	1050

Test Description	Detection Limit	QC Value	Diluted Value	Orig. Value	Alt. Value	% REC
Mercury (Hg)	0.0002	0.00455	0.00500	-0.0002		95.0

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
CCV	Continuing Calibration Verification	1013P			4000	09/28/95	1103

Test Description	Detection Limit	QC Value	Diluted Value	Orig. Value	Alt. Value	% REC
Mercury (Hg)	0.0002	0.00230	0.00250			92.0

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank					09/28/95	1105

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Mercury (Hg)	0.0002	-0.00016			

QUALITY CONTROL REPORT
Report Date: 10/11/95
Job Number....: 954301 Project....: ENRON-WTI/4230

Method Description.: Volatile Organics (Client Requested) Status.....: RVWD Calc Code.....: Analyst ...: bfr
Method Code.....: 8240C QC Code.....: 8000 Equipment Code..:
Batch Code.....: 2287 Units.....: ug/L Import Code.....:

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
MB	Method Blank			Solid		09/27/95	1852

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Acetonitrile	100	ND			
Acrolein	50	ND			
Acrylonitrile	20	ND			
Acetone	100	ND			
Allyl chloride	20	ND			
Benzene	1	ND			
Benzyl chloride	5	ND			
Bromobenzene	5	ND			
Bromochloromethane	5	ND			
Bromodichloromethane	5	ND			
Bromoform	5	ND			
Bromomethane	10	ND			
Methyl ethyl ketone (2-Butanone)	100	ND			
Carbon disulfide	5	ND			
Carbon tetrachloride	5	ND			
Chlorobenzene	5	ND			
Chloroethane	10	ND			
2-Chloroethylvinyl ether	5	ND			
Chloroform	5	ND			
Chloromethane	5	ND			
2-Chloro-1,3-butadiene (chloroprene)	5	ND			
Dibromochloromethane	5	ND			
1,2-Dibromoethane (EDB)	20	ND			
1,2-Dibromo-3-chloropropane	20	ND			
Dibromomethane	5	ND			
trans-1,4-Dichloro-2-butene	50	ND			
Dichlorodifluoromethane	10	ND			
1,1-Dichloroethane	5	ND			
1,2-Dichloroethane	5	ND			
1,1-Dichloroethene	5	ND			
cis-1,2-Dichloroethene	5	ND			
trans-1,2-Dichloroethene	5	ND			

QUALITY CONTROL REPORT
Report Date: 10/11/95
Job Number....: 954301 Project....: ENRON-WTI/4230

Method Description.: Volatile Organics (Client Requested) Status.....: RVWD Calc Code.....: Analyst ...: bfr
Method Code.....: 8240C QC Code.....: 8000 Equipment Code..:
Batch Code.....: 2287 Units.....: ug/L Import Code.....:

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
MB	Method Blank			Solid		09/27/95	1852

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
1,2-Dichloropropane	5	ND			
cis-1,3-Dichloropropene	5	ND			
trans-1,3-Dichloropropene	5	ND			
Ethylbenzene	5	ND			
Ethyl methacrylate	5	ND			
2-Hexanone	50	ND			
Iodomethane	5	ND			
Isobutyl alcohol	50	ND			
Methylacrylonitrile	50	ND			
Methylene chloride	5	ND			
Methyl methacrylate	5	ND			
4-Methyl-2-pentanone (MIBK)	50	ND			
Pentachloroethane	5	ND			
Propionitrile	100	ND			
Styrene	5	ND			
1,1,1,2-Tetrachloroethane	5	ND			
1,1,2,2-Tetrachloroethane	5	ND			
Tetrachloroethene	5	ND			
Toluene	5	ND			
1,1,1-Trichloroethane	5	ND			
1,1,2-Trichloroethane	5	ND			
Trichloroethene	5	ND			
Trichlorofluoromethane	5	ND			
1,2,3-Trichloropropane	5	ND			
Vinyl acetate	50	ND			
Vinyl chloride	10	ND			
Xylenes (total)	5	ND			

QUALITY CONTROL REPORT

Report Date: 10/11/95

Job Number....: 954301 Project....: ENRON-WTI/4230

Method Description.: Volatile Organics (Cl[illegible] Requested) Status.....: RVWD Calc Code.....: Analyst ...: bfr
Method Code.....: 8240C QC Code.....: 8000 Equipment Code..:
Batch Code.....: 2287 Units.....: ug/L Import Code.....:

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
RS	Reference Standard	V950927A		Solid		09/27/95	1945

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Benzene	1	47.9	50.3			95.2
Bromodichloromethane	5	49.2	50.3			97.8
Bromoform	5	47.5	50.2			94.6
Carbon tetrachloride	5	47.1	50.3			93.6
Chlorobenzene	5	51.0	50.3			101.4
Chloroform	5	48.4	50.2			96.4
Dibromochloromethane	5	48.6	50.3			96.6
1,1-Dichloroethane	5	47.6	50.2			94.8
1,2-Dichloroethane	5	50.6	50.3			100.6
1,1-Dichloroethene	5	46.1	50.3			91.7
trans-1,2-Dichloroethene	5	46.1	50.3			91.7
1,2-Dichloropropane	5	48.9	50.3			97.2
Ethylbenzene	5	40.0	50.3			79.5
Methylene chloride	5	47.4	50.3			94.2
1,1,2,2-Tetrachloroethane	5	53.4	50.3			106.2
Tetrachloroethene	5	33.6	50.3			66.8
Toluene	5	48.7	50.3			96.8
1,1,1-Trichloroethane	5	49.1	50.3			97.6
1,1,2-Trichloroethane	5	49.9	50.3			99.2
Trichloroethene	5	50.4	50.3			100.2

CORE LABORATORIES

QUALITY CONTROL REPORT
Report Date: 10/11/95
Job Number....: 954301 Project....: ENRON-WTI/4230

Method Description.: Metals Analysis (ICAP) Status.....: RVWD Calc Code.....: Analyst ...: gag
Method Code.....: 6010 QC Code.....: MET Equipment Code..: ICP
Batch Code.....: 2320 Units.....: mg/L Import Code.....: ICP01

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
ICV	Initial Calibration Verification	950531B				09/28/95	1735

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Arsenic (As)	0.05	1.98210	2.00			99.1
Beryllium (Be)	0.005	1.82132	2.00			91.1
Cadmium (Cd)	0.005	1.87805	2.00			93.9
Cobalt (Co)	0.03	1.90888	2.00			95.4
Chromium (Cr)	0.01	1.96461	2.00			98.2
Copper (Cu)	0.01	1.90381	2.00			95.2
Nickel (Ni)	0.04	1.95079	2.00			97.5
Lead (Pb)	0.05	1.90277	2.00			95.1
Antimony (Sb)	0.1	1.96595	2.00			98.3
Selenium (Se)	0.1	1.93844	2.00			96.9
Thallium (Tl)	0.1	1.96034	2.00			98.0
Vanadium (V)	0.05	1.95430	2.00			97.7
Zinc (Zn)	0.01	1.88236	2.00			94.1

ICV	Initial Calibration Verification	1206H				09/28/95	1740

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Silver (Ag)	0.01	1.80003	2.00			90.0
Aluminum (Al)	0.05	2.11186	2.00			105.6
Barium (Ba)	0.01	1.94309	2.00			97.2

ICV	Initial Calibration Verification	950426D				09/28/95	1748

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Tin (Sn)	0.05	1.02737	1.00			102.7

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CORE LABORATORIES

QUALITY CONTROL REPORT

Report Date: 10/11/95

Job Number....: 954301 Project....: ENRON-WTI/4230

Method Description.: Metals Analysis (ICAP) Status.....: RVWD Calc Code.....: Analyst ...: gag
Method Code.....: 6010 QC Code.....: MET Equipment Code..: ICP
Batch Code.....: 2320 Units.....: mg/L Import Code.....: ICP01

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
ICB	Initial Calibration Blank	950815J				09/28/95	1755

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Silver (Ag)	0.01	-0.00111			
Aluminum (Al)	0.05	0.00669			
Arsenic (As)	0.05	0.03483			
Barium (Ba)	0.01	-0.00016			
Beryllium (Be)	0.005	0.00001			
Cadmium (Cd)	0.005	-0.00288			
Cobalt (Co)	0.03	0.00203			
Chromium (Cr)	0.01	-0.00344			
Copper (Cu)	0.01	-0.00083			
Nickel (Ni)	0.04	0.00333			
Lead (Pb)	0.05	-0.01125			
Antimony (Sb)	0.1	-0.00862			
Selenium (Se)	0.1	-0.02726			
Tin (Sn)	0.05	-0.01115			
Thallium (Tl)	0.1	-0.00006			
Vanadium (V)	0.05	-0.00136			
Zinc (Zn)	0.01	0.00166			

ISA	Interference Check Sample A	9506121				09/28/95	1804

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Aluminum (Al)	0.05	527.67236	500			105.5

ISB	Interference Check Sample B	950927E				09/28/95	1812

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Silver (Ag)	0.01	0.88972	1.000			89.0
Aluminum (Al)	0.05	498.78558	500			99.8

CORE LABORATORIES

QUALITY CONTROL REPORT
Report Date: 10/11/95
Job Number....: 954301 Project....: ENRON-WTI/4230

Method Description.: Metals Analysis (ICAP) Status.....: RVWD Calc Code.....: Analyst ...: gag
Method Code.....: 6010 QC Code.....: MET Equipment Code..: ICP
Batch Code.....: 2320 Units.....: mg/L Import Code.....: ICP01

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
ISB	Interference Check Sample B	950927E				09/28/95	1812

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Arsenic (As)	0.05	1.03212	1.0000			103.2
Barium (Ba)	0.01	0.46836	0.5000			93.7
Beryllium (Be)	0.005	0.46305	0.5000			92.6
Cadmium (Cd)	0.005	1.01221	1.000			101.2
Cobalt (Co)	0.03	0.45770	0.5000			91.5
Chromium (Cr)	0.01	0.44828	0.5000			89.7
Copper (Cu)	0.01	0.48243	0.5000			96.5
Nickel (Ni)	0.04	0.89532	1.000			89.5
Lead (Pb)	0.05	1.11415	1.000			111.4
Antimony (Sb)	0.1	0.85003	1.000			85.0
Selenium (Se)	0.1	0.87270	1.000			87.3
Tin (Sn)	0.05	1.10587	1.000			110.6
Thallium (Tl)	0.1	0.87295	1.000			87.3
Vanadium (V)	0.05	0.49414	0.5000			98.8
Zinc (Zn)	0.01	0.95648	1.000			95.6

MB	Method Blank	0926				09/28/95	1828

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Silver (Ag)	0.01	0.00131			

LCS	Laboratory Control Sample	950614J				09/28/95	1831

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Silver (Ag)	0.01	0.69072	.654			105.6

QUALITY CONTROL REPORT

Report Date: 10/11/95

Job Number....: 954301 Project....: ENRON-WTI/4230

Method Description.: Metals Analysis (ICAP) Status.....: RVWD Calc Code.....: Analyst ...: gag
Method Code.....: 6010 QC Code.....: MET Equipment Code..: ICP
Batch Code.....: 2320 Units.....: mg/L Import Code.....: ICP01

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date Time
MD	Method Duplicate		954341-1	Solid		09/28/95 1837

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	RPD	ABS Diff.
Silver (Ag)	0.01	0.01869		0.01725			0.00144

MS	Matrix Spike	950821D	954341-3	Solid		09/28/95 1842

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Silver (Ag)	0.01	0.93522	1.000	0.02243		91.3

MB	Method Blank	0922				09/28/95 1848

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Silver (Ag)	0.01	-0.00261			
Aluminum (Al)	0.05	0.01482			
Arsenic (As)	0.05	0.00565			
Barium (Ba)	0.01	0.00032			
Beryllium (Be)	0.005	0.00002			
Cadmium (Cd)	0.005	-0.00004			
Cobalt (Co)	0.03	0.00270			
Chromium (Cr)	0.01	-0.00172			
Copper (Cu)	0.01	0.00000			
Nickel (Ni)	0.04	0.00428			
Lead (Pb)	0.05	-0.01925			
Antimony (Sb)	0.1	-0.02650			
Selenium (Se)	0.1	-0.04629			
Tin (Sn)	0.05	0.01733			
Thallium (Tl)	0.1	0.00384			
Vanadium (V)	0.05	-0.00231			
Zinc (Zn)	0.01	0.00165			

QUALITY CONTROL REPORT

Report Date: 10/11/95

Job Number....: 954301 Project....: ENRON-WTI/4230

Method Description.: Metals Analysis (ICAP)
Method Code.....: 6010
Batch Code.....: 2320

Status.....: RVWD
QC Code.....: MET
Units.....: mg/L

Calc Code.....:
Equipment Code..: ICP
Import Code.....: ICP01

Analyst ...: gag

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
CCV	Continuing Calibration Verification	950519C				09/28/95	1853

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Aluminum (Al)	0.05	9.80231	10.0			98.0
Arsenic (As)	0.05	2.38614	2.5			95.4
Barium (Ba)	0.01	4.63132	5.0			92.6
Beryllium (Be)	0.005	2.36672	2.5			94.7
Cadmium (Cd)	0.005	2.28852	2.5			91.5
Cobalt (Co)	0.03	2.28349	2.5			91.3
Chromium (Cr)	0.01	2.34846	2.5			93.9
Copper (Cu)	0.01	2.29300	2.5			91.7
Nickel (Ni)	0.04	2.32670	2.5			93.1
Lead (Pb)	0.05	2.26716	2.5			90.7
Antimony (Sb)	0.1	2.48997	2.5			99.6
Selenium (Se)	0.1	2.26861	2.5			90.7
Tin (Sn)	0.05	2.63945	2.5			105.6
Thallium (Tl)	0.1	2.33893	2.5			93.6
Vanadium (V)	0.05	2.35964	2.5			94.4
Zinc (Zn)	0.01	2.26809	2.5			90.7

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
CCV	Continuing Calibration Verification	950607J				09/28/95	1900

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Silver (Ag)	0.01	2.56219	2.500			102.5

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank	950815J				09/28/95	1908

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Silver (Ag)	0.01	0.00302			
Aluminum (Al)	0.05	0.00446			
Arsenic (As)	0.05	0.02205			

QUALITY CONTROL REPORT

Report Date: 10/11/95

Job Number....: 954301 Project....: ENRON-WTI/4230

Method Description.: Metals Analysis (ICAP)
Method Code.....: 6010
Batch Code.....: 2320

Status.....: RVWD
QC Code.....: MET
Units.....: mg/L

Calc Code.....:
Equipment Code..: ICP
Import Code.....: ICP01

Analyst ...: gag

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date Time
CCB	Continuing Calibration Blank	950815J				09/28/95 1908

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Barium (Ba)	0.01	0.00000			
Beryllium (Be)	0.005	-0.00001			
Cadmium (Cd)	0.005	0.00098			
Cobalt (Co)	0.03	0.00069			
Chromium (Cr)	0.01	-0.00086			
Copper (Cu)	0.01	-0.00081			
Nickel (Ni)	0.04	-0.00762			
Lead (Pb)	0.05	0.00000			
Antimony (Sb)	0.1	-0.03100			
Selenium (Se)	0.1	-0.00017			
Tin (Sn)	0.05	-0.00966			
Thallium (Tl)	0.1	-0.02421			
Vanadium (V)	0.05	0.00119			
Zinc (Zn)	0.01	0.00170			

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date Time
LCS	Laboratory Control Sample	950614J				09/28/95 1911

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Silver (Ag)	0.01	0.75960	.654			116.1
Arsenic (As)	0.05	0.87196	.824			105.8
Barium (Ba)	0.01	2.16148	2.38			90.8
Beryllium (Be)	0.005	1.55604	1.52			102.4
Cadmium (Cd)	0.005	0.87466	.900			97.2
Cobalt (Co)	0.03	0.96450	1.01			95.5
Chromium (Cr)	0.01	1.62463	1.67			97.3
Copper (Cu)	0.01	1.93187	1.96			98.6
Nickel (Ni)	0.04	1.30417	1.35			96.6
Lead (Pb)	0.05	1.56786	1.62			96.8
Antimony (Sb)	0.1	0.27583	.494			55.8
Selenium (Se)	0.1	1.16147	1.09			106.6

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QUALITY CONTROL REPORT

Report Date: 10/11/95

Job Number....: 954301 Project....: ENRON-WTI/4230

Method Description.: Metals Analysis (ICAP) Status.....: RVWD Calc Code.....: Analyst ...: gag
Method Code.....: 6010 QC Code.....: MET Equipment Code..: ICP
Batch Code.....: 2320 Units.....: mg/L Import Code.....: ICP01

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date Time
LCS	Laboratory Control Sample	950614J				09/28/95 1911

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Thallium (Tl)	0.1	1.30258	1.27			102.6
Vanadium (V)	0.05	0.90162	.940			95.9
Zinc (Zn)	0.01	1.92037	1.99			96.5

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date Time
LCS	Laboratory Control Sample	95J0614			10	09/28/95 1913

Test Description	Detection Limit	QC Value	Diluted Value	Orig. Value	Alt. Value	% REC
Aluminum (Al)	0.05	4.11408	3.49000			117.9

QC Type	Description		Lab ID	MTX		Date Time
MD	Method Duplicate		954301-1	Solid		09/28/95 1919

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	RPD	ABS Diff.
Silver (Ag)	0.01	-0.00618		-0.00713			0.00095
Arsenic (As)	0.05	-0.02178		-0.04254			0.02076
Barium (Ba)	0.01	2.80579		2.76863		1	
Beryllium (Be)	0.005	0.00061		0.00063			0.00002
Cadmium (Cd)	0.005	0.00018		0.00165			0.00147
Cobalt (Co)	0.03	0.01296		0.01437			0.00141
Chromium (Cr)	0.01	0.07501		0.07387		2	
Copper (Cu)	0.01	0.07372		0.07623		3	
Nickel (Ni)	0.04	0.02333		0.02381			0.00048
Lead (Pb)	0.05	0.07347		0.08979			0.01632
Antimony (Sb)	0.1	0.01305		0.08710			0.07405
Selenium (Se)	0.1	-0.01300		0.00280			0.01580
Tin (Sn)	0.05	0.04760		0.03183			0.01577
Thallium (Tl)	0.1	-0.05542		-0.04600			0.00942
Vanadium (V)	0.05	0.37821		0.37604		0	
Zinc (Zn)	0.01	0.58739		0.58243		0	

QUALITY CONTROL REPORT

Report Date: 10/11/95

Job Number....: 954301 Project....: ENRON-WTI/4230

Method Description.: Metals Analysis (ICAP) Status.....: RVWD Calc Code.....: Analyst ...: gag
Method Code.....: 6010 QC Code.....: MET Equipment Code..: ICP
Batch Code.....: 2320 Units.....: mg/L Import Code.....: ICP01

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date Time
MD	Method Duplicate		954301-1	Solid		09/28/95 1926

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	RPD	ABS Diff.
Aluminum (Al)	0.05	8.92888		8.87265		0	

MS	Matrix Spike	950821D	954301-2	Solid		09/28/95 1933

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Silver (Ag)	0.01	1.00480	1.000	-0.00387		100.9
Arsenic (As)	0.05	0.88234	1.000	0.01076		87.2
Beryllium (Be)	0.005	0.88503	1.000	0.00078		88.4
Cadmium (Cd)	0.005	0.83992	1.000	-0.00279		84.3
Cobalt (Co)	0.03	0.80806	1.000	0.01212		79.6
Chromium (Cr)	0.01	0.89544	1.000	0.06939		82.6
Copper (Cu)	0.01	0.93230	1.000	0.05955		87.3
Nickel (Ni)	0.04	0.84667	1.000	0.02606		82.1
Lead (Pb)	0.05	0.86665	1.000	0.02939		83.7
Antimony (Sb)	0.1	0.96532	1.00	0.05185		91.3
Selenium (Se)	0.1	0.88023	1.000	0.01389		86.6
Tin (Sn)	0.05	0.98573	1.00	0.01735		96.8
Thallium (Tl)	0.1	0.86411	1.000	0.05902		80.5
Vanadium (V)	0.05	1.10048	1.000	0.30537		79.5
Zinc (Zn)	0.01	1.30415	1.000	0.60090		70.3

PDS	Post Digestion Spike	950821D	954301-2	Solid		09/28/95 1938

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Zinc (Zn)	0.01	1.37093	1.000	0.60090		77.0

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QUALITY CONTROL REPORT

Report Date: 10/11/95

Job Number....: 954301 Project....: ENRON-WTI/4230

Method Description.: Metals Analysis (ICAP) Status.....: RVWD Calc Code.....: Analyst ...: gag
Method Code.....: 6010 QC Code.....: MET Equipment Code..: ICP
Batch Code.....: 2320 Units.....: mg/L Import Code.....: ICP01

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
CCV	Continuing Calibration Verification	950505D				09/28/95	1942

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Aluminum (Al)	0.05	9.83497	10.0			98.3
Arsenic (As)	0.05	2.32879	2.5			93.2
Barium (Ba)	0.01	4.63502	5.0			92.7
Beryllium (Be)	0.005	2.35020	2.5			94.0
Cadmium (Cd)	0.005	2.28668	2.5			91.5
Cobalt (Co)	0.03	2.28481	2.5			91.4
Chromium (Cr)	0.01	2.35541	2.5			94.2
Copper (Cu)	0.01	2.29637	2.5			91.9
Nickel (Ni)	0.04	2.33434	2.5			93.4
Lead (Pb)	0.05	2.26715	2.5			90.7
Antimony (Sb)	0.1	2.38090	2.5			95.2
Selenium (Se)	0.1	2.55118	2.5			102.0
Tin (Sn)	0.05	2.56116	2.5			102.4
Thallium (Tl)	0.1	2.30281	2.5			92.1
Vanadium (V)	0.05	2.36581	2.5			94.6
Zinc (Zn)	0.01	2.26470	2.5			90.6

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
CCV	Continuing Calibration Verification	950607J				09/28/95	1946

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Silver (Ag)	0.01	2.57520	2.500			103.0

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank	950815J				09/28/95	1948

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Silver (Ag)	0.01	-0.00000			
Aluminum (Al)	0.05	0.00965			
Arsenic (As)	0.05	0.00923			

QUALITY CONTROL REPORT

Report Date: 10/11/95

Job Number....: 954301 Project....: ENRON-WTI/4230

Method Description.: Metals Analysis (ICAP) Status.....: RVWD Calc Code.....: Analyst ...: gag
Method Code.....: 6010 QC Code.....: MET Equipment Code..: ICP
Batch Code.....: 2320 Units.....: mg/L Import Code.....: ICP01

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank	950815J				09/28/95	1948

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Barium (Ba)	0.01	0.00080			
Beryllium (Be)	0.005	0.00001			
Cadmium (Cd)	0.005	-0.00137			
Cobalt (Co)	0.03	0.00136			
Chromium (Cr)	0.01	-0.00344			
Copper (Cu)	0.01	0.00000			
Nickel (Ni)	0.04	-0.00480			
Lead (Pb)	0.05	-0.01135			
Antimony (Sb)	0.1	-0.02212			
Selenium (Se)	0.1	0.03901			
Tin (Sn)	0.05	0.01259			
Thallium (Tl)	0.1	0.04009			
Vanadium (V)	0.05	-0.00112			
Zinc (Zn)	0.01	0.00335			

PDS	Post Digestion Spike	950821D	954301-2	Solid		09/28/95	1955

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Aluminum (Al)	0.05	5.53280	2.0000	3.90746		81.3
Barium (Ba)	0.01	1.19740	1.000	0.33634		86.1

ISA	Interference Check Sample A	950612I				09/28/95	2010

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Aluminum (Al)	0.05	550.59399	500			110.1

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QUALITY CONTROL REPORT
Report Date: 10/11/95
Job Number....: 954301 Project....: ENRON-WTI/4230

Method Description.: Metals Analysis (ICAP)
Method Code.....: 6010
Batch Code.....: 2320
Status.....: RVWD
QC Code.....: MET
Units.....: mg/L
Calc Code.....:
Equipment Code..: ICP
Import Code.....: ICP01
Analyst ...: gag

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
ISB	Interference Check Sample B	950927E				09/28/95	2014

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Silver (Ag)	0.01	1.03383	1.000			103.4
Aluminum (Al)	0.05	510.28088	500			102.1
Arsenic (As)	0.05	0.94526	1.0000			94.5
Barium (Ba)	0.01	0.47289	0.5000			94.6
Beryllium (Be)	0.005	0.45494	0.5000			91.0
Cadmium (Cd)	0.005	1.05237	1.000			105.2
Cobalt (Co)	0.03	0.45948	0.5000			91.9
Chromium (Cr)	0.01	0.45850	0.5000			91.7
Copper (Cu)	0.01	0.48660	0.5000			97.3
Nickel (Ni)	0.04	0.92330	1.000			92.3
Lead (Pb)	0.05	1.14589	1.000			114.6
Antimony (Sb)	0.1	0.81893	1.000			81.9
Selenium (Se)	0.1	0.88122	1.000			88.1
Tin (Sn)	0.05	1.02262	1.000			102.3
Thallium (Tl)	0.1	0.99010	1.000			99.0
Vanadium (V)	0.05	0.50483	0.5000			101.0
Zinc (Zn)	0.01	0.96516	1.000			96.5

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
CCV	Continuing Calibration Verification	950505D				09/28/95	2020

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Aluminum (Al)	0.05	9.85422	10.0			98.5
Arsenic (As)	0.05	2.29714	2.5			91.9
Barium (Ba)	0.01	4.69469	5.0			93.9
Beryllium (Be)	0.005	2.38095	2.5			95.2
Cadmium (Cd)	0.005	2.25685	2.5			90.3
Cobalt (Co)	0.03	2.28269	2.5			91.3
Chromium (Cr)	0.01	2.35883	2.5			94.4
Copper (Cu)	0.01	2.31062	2.5			92.4
Nickel (Ni)	0.04	2.34138	2.5			93.7

QUALITY CONTROL REPORT

Report Date: 10/11/95

Job Number....: 954301 Project....: ENRON-WTI/4230

Method Description.: Metals Analysis (ICAP) Status.....: RVWD Calc Code.....: Analyst ...: gag
Method Code.....: 6010 QC Code.....: MET Equipment Code..: ICP
Batch Code.....: 2320 Units.....: mg/L Import Code.....: ICP01

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
CCV	Continuing Calibration Verification	950505D				09/28/95	2020

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Lead (Pb)	0.05	2.33448	2.5			93.4
Antimony (Sb)	0.1	2.69051	2.5			107.6
Selenium (Se)	0.1	2.52423	2.5			101.0
Tin (Sn)	0.05	2.57380	2.5			103.0
Thallium (Tl)	0.1	2.60321	2.5			104.1
Vanadium (V)	0.05	2.37089	2.5			94.8
Zinc (Zn)	0.01	2.45455	2.5			98.2

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
CCV	Continuing Calibration Verification	950607J				09/28/95	2022

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Silver (Ag)	0.01	2.50745	2.500			100.3

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank	950815J				09/28/95	2024

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Silver (Ag)	0.01	0.00075			
Aluminum (Al)	0.05	0.01265			
Arsenic (As)	0.05	0.00911			
Barium (Ba)	0.01	0.00160			
Beryllium (Be)	0.005	-0.00005			
Cadmium (Cd)	0.005	-0.00009			
Cobalt (Co)	0.03	0.00272			
Chromium (Cr)	0.01	0.00258			
Copper (Cu)	0.01	0.00336			
Nickel (Ni)	0.04	-0.00434			
Lead (Pb)	0.05	-0.00670			
Antimony (Sb)	0.1	-0.02203			

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QUALITY CONTROL REPORT

Report Date: 10/11/95

Job Number....: 954301 Project....: ENRON-WTI/4230

Method Description.: Metals Analysis (ICAP) Status.....: RVWD Calc Code.....: Analyst ...: gag
Method Code.....: 6010 QC Code.....: MET Equipment Code..: ICP
Batch Code.....: 2320 Units.....: mg/L Import Code.....: ICP01

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank	950815J				09/28/95	2024

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Selenium (Se)	0.1	0.02782			
Tin (Sn)	0.05	-0.00327			
Thallium (Tl)	0.1	0.07160			
Vanadium (V)	0.05	0.00495			
Zinc (Zn)	0.01	0.00002			

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
MB	Method Blank	0920				09/28/95	2027

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Silver (Ag)	0.01	-0.00076			
Arsenic (As)	0.05	0.00340			
Barium (Ba)	0.01	0.00032			
Beryllium (Be)	0.005	0.00052			
Cadmium (Cd)	0.005	-0.00244			
Chromium (Cr)	0.01	0.00000			
Lead (Pb)	0.05	-0.02184			
Selenium (Se)	0.1	0.04251			

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
LCS	Laboratory Control Sample	950614J				09/28/95	2031

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Silver (Ag)	0.01	0.75678	.654			115.7
Arsenic (As)	0.05	0.86736	.824			105.3
Barium (Ba)	0.01	2.08636	2.38			87.7
Beryllium (Be)	0.005	1.45367	1.52			95.6
Cadmium (Cd)	0.005	0.89796	.900			99.8
Chromium (Cr)	0.01	1.54579	1.67			92.6
Lead (Pb)	0.05	1.60061	1.62			98.8

QUALITY CONTROL REPORT

Report Date: 10/11/95

Job Number....: 954301 Project....: ENRON-WTI/4230

Method Description.: Metals Analysis (ICAP)
Method Code.....: 6010
Batch Code.....: 2320

Status.....: RVWD
QC Code.....: MET
Units.....: mg/L

Calc Code.....:
Equipment Code..: ICP
Import Code.....: ICP01

Analyst ...: gag

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date Time
LCS	Laboratory Control Sample	950614J				09/28/95 2031

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Selenium (Se)	0.1	1.28178	1.09			117.6

LCD	Laboratory Control Sample Duplicate	950614J				09/28/95 2032

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC	RPD
Silver (Ag)	0.01	0.04656	.654		0.75678	7.1	176.8
Arsenic (As)	0.05	0.93433	.824		0.86736	113.4	7.4
Barium (Ba)	0.01	2.30272	2.38		2.08636	96.8	9.9
Beryllium (Be)	0.005	1.48172	1.52		1.45367	97.5	1.9
Cadmium (Cd)	0.005	0.91049	.900		0.89796	101.2	1.4
Chromium (Cr)	0.01	1.65339	1.67		1.54579	99.0	6.7
Lead (Pb)	0.05	1.74655	1.62		1.60061	107.8	8.7
Selenium (Se)	0.1	1.20621	1.09		1.28178	110.7	6.1

MD	Method Duplicate		954232-1	Solid		09/28/95 2058

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	RPD	ABS Diff.
Arsenic (As)	0.05	1.34176		1.45424		8	
Beryllium (Be)	0.005	0.07604		0.09577		23	
Cadmium (Cd)	0.005	0.03460		0.03582		3	
Selenium (Se)	0.1	0.35625		0.45232			0.09607

MD	Method Duplicate		954232-1	Solid		09/28/95 2106

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	RPD	ABS Diff.
Silver (Ag)	0.01	0.02991		0.03297			0.00306

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QUALITY CONTROL REPORT

Report Date: 10/11/95

Job Number....: 954301 Project....: ENRON-WTI/4230

Method Description.: Metals Analysis (ICAP)
Method Code.....: 6010
Batch Code.....: 2320

Status.....: RVWD
QC Code.....: MET
Units.....: mg/L

Calc Code.....:
Equipment Code..: ICP
Import Code.....: ICP01

Analyst ...: gag

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date Time
MD	Method Duplicate		954232-1	Solid		09/28/95 2106

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	RPD	ABS Diff.
Barium (Ba)	0.01	-0.00611		-0.00659			0.00048

MD	Method Duplicate		954232-1	Solid		09/28/95 2115

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	RPD	ABS Diff.
Chromium (Cr)	0.01	-0.00162		-0.00938			0.00776
Lead (Pb)	0.05	1.00517		0.32711		102	

CCV	Continuing Calibration Verification	950505D				09/28/95 2120

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Arsenic (As)	0.05	2.26783	2.5			90.7
Barium (Ba)	0.01	4.67813	5.0			93.6
Beryllium (Be)	0.005	2.36411	2.5			94.6
Cadmium (Cd)	0.005	2.26975	2.5			90.8
Chromium (Cr)	0.01	2.34417	2.5			93.8
Lead (Pb)	0.05	2.33296	2.5			93.3
Selenium (Se)	0.1	2.58500	2.5			103.4

CCV	Continuing Calibration Verification	950607J				09/28/95 2124

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Silver (Ag)	0.01	2.56559	2.500			102.6

QUALITY CONTROL REPORT

Report Date: 10/11/95

Job Number....: 954301 Project....: ENRON-WTI/4230

Method Description.: Metals Analysis (ICAP) Status.....: RVWD Calc Code.....: Analyst ...: gag
Method Code.....: 6010 QC Code.....: MET Equipment Code..: ICP
Batch Code.....: 2320 Units.....: mg/L Import Code.....: ICP01

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date Time
CCB	Continuing Calibration Blank	950815J				09/28/95 2127

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Silver (Ag)	0.01	-0.00303			
Arsenic (As)	0.05	0.00940			
Barium (Ba)	0.01	-0.00016			
Beryllium (Be)	0.005	0.00001			
Cadmium (Cd)	0.005	-0.00005			
Chromium (Cr)	0.01	-0.00086			
Lead (Pb)	0.05	-0.00509			
Selenium (Se)	0.1	0.06387			

PDS	Post Digestion Spike	950821D	954232-3	Solid		09/28/95 2144

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Silver (Ag)	0.01	1.37477	1.000	0.31234		106.2
Arsenic (As)	0.05	2.15666	1.000	1.23704		92.0
Barium (Ba)	0.01	0.94854	1.000	0.01816		93.0
Beryllium (Be)	0.005	2.20409	1.000	1.28364		92.0
Cadmium (Cd)	0.005	2.05967	1.000	1.09113		96.9
Selenium (Se)	0.1	1.30630	1.000	0.30368		100.3

PDS	Post Digestion Spike	950821D	954232-3	Solid		09/28/95 2150

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Lead (Pb)	0.05	1.51821	1.000	0.56688		95.1

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QUALITY CONTROL REPORT

Report Date: 10/11/95

Job Number....: 954301 Project....: ENRON-WTI/4230

Method Description.: Metals Analysis (ICAP) Status.....: RVWD Calc Code.....: Analyst ...: gag
Method Code.....: 6010 QC Code.....: MET Equipment Code..: ICP
Batch Code.....: 2320 Units.....: mg/L Import Code.....: ICP01

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
PDS	Post Digestion Spike	950821D	954232-3	Solid		09/28/95	2157

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Chromium (Cr)	0.01	0.93287	1.000	-0.00770		94.1

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
CCV	Continuing Calibration Verification	950505D				09/28/95	2201

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Arsenic (As)	0.05	2.25648	2.5			90.3
Barium (Ba)	0.01	4.62038	5.0			92.4
Beryllium (Be)	0.005	2.31342	2.5			92.5
Cadmium (Cd)	0.005	2.25353	2.5			90.1
Chromium (Cr)	0.01	2.31659	2.5			92.7
Lead (Pb)	0.05	2.33975	2.5			93.6
Selenium (Se)	0.1	2.47078	2.5			98.8

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
CCV	Continuing Calibration Verification	950607J				09/28/95	2204

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Silver (Ag)	0.01	2.57239	2.500			102.9

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank	950815J				09/28/95	2206

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Silver (Ag)	0.01	-0.00000			
Arsenic (As)	0.05	0.02194			
Barium (Ba)	0.01	0.00112			
Beryllium (Be)	0.005	-0.00001			
Cadmium (Cd)	0.005	0.00104			

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QUALITY CONTROL REPORT

Report Date: 10/11/95

Job Number....: 954301 Project....: ENRON-WTI/4230

Method Description.: Metals Analysis (ICAP) Status.....: RVWD Calc Code.....: Analyst ...: gag
Method Code.....: 6010 QC Code.....: MET Equipment Code..: ICP
Batch Code.....: 2320 Units.....: mg/L Import Code.....: ICP01

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank	950815J				09/28/95	2206

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Chromium (Cr)	0.01	0.00000			
Lead (Pb)	0.05	-0.00670			
Selenium (Se)	0.1	0.00845			

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
ISB	Interference Check Sample B	950927E				09/28/95	2215

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Silver (Ag)	0.01	0.95310	1.000			95.3
Arsenic (As)	0.05	0.87041	1.0000			87.0
Barium (Ba)	0.01	0.47678	0.5000			95.4
Beryllium (Be)	0.005	0.44902	0.5000			89.8
Cadmium (Cd)	0.005	1.06205	1.000			106.2
Chromium (Cr)	0.01	0.46919	0.5000			93.8
Lead (Pb)	0.05	1.14145	1.000			114.1
Selenium (Se)	0.1	1.07149	1.000			107.1

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
CCV	Continuing Calibration Verification	950505D				09/28/95	2223

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Arsenic (As)	0.05	2.33356	2.5			93.3
Barium (Ba)	0.01	4.62730	5.0			92.5
Beryllium (Be)	0.005	2.31189	2.5			92.5
Cadmium (Cd)	0.005	2.72958	2.5			109.2
Chromium (Cr)	0.01	2.30362	2.5			92.1
Lead (Pb)	0.05	2.30260	2.5			92.1
Selenium (Se)	0.1	2.68904	2.5			107.6

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QUALITY CONTROL REPORT

Report Date: 10/11/95

Job Number....: 954301 Project....: ENRON-WTI/4230

Method Description.: Metals Analysis (ICAP)
Method Code.....: 6010
Batch Code.....: 2320

Status.....: RVWD
QC Code.....: MET
Units.....: mg/L

Calc Code.....:
Equipment Code..: ICP
Import Code.....: ICP01

Analyst ...: gag

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
CCV	Continuing Calibration Verification	950607J				09/28/95	2231

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Silver (Ag)	0.01	2.53992	2.500			101.6

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank	950815J				09/28/95	2232

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Silver (Ag)	0.01	-0.00151			
Arsenic (As)	0.05	0.00486			
Barium (Ba)	0.01	0.00160			
Beryllium (Be)	0.005	0.00001			
Cadmium (Cd)	0.005	0.00148			
Chromium (Cr)	0.01	-0.00171			
Lead (Pb)	0.05	-0.00338			
Selenium (Se)	0.1	0.09689			

QUALITY CONTROL REPORT

Report Date: 10/11/95

Job Number....: 954301 Project....: ENRON-WTI/4230

Method Description.: Total Recoverable Petroleum Hydrocarbons
Method Code.....: 418.1
Batch Code.....: 2337
Status.....: RVWD
QC Code.....: GEN
Units.....: mg/L
Calc Code.....:
Equipment Code..:
Import Code.....:
Analyst ...: jbd

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
ICB	Initial Calibration Blank	R092695M				09/28/95	0800

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Total Recoverable Petroleum Hydrocarbons	1	0			

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
MB	Method Blank	R092695M				09/28/95	0800

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Total Recoverable Petroleum Hydrocarbons	1	0			

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank	R092695M				09/28/95	0800

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Total Recoverable Petroleum Hydrocarbons	1	0			

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
ICV	Initial Calibration Verification	940114A				09/28/95	0800

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Total Recoverable Petroleum Hydrocarbons	1	45	43			104.7

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
CCV	Continuing Calibration Verification	X950926B				09/28/95	0800

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Total Recoverable Petroleum Hydrocarbons	1	50	50			100.0

QUALITY CONTROL REPORT
Report Date: 10/11/95
Job Number....: 954301 Project....: ENRON-WTI/4230

Method Description.: Total Recoverable Petroleum Hydrocarbons Status.....: RVWD Calc Code.....: Analyst ...: jbd
Method Code.....: 418.1 QC Code.....: GEN Equipment Code..:
Batch Code.....: 2337 Units.....: mg/L Import Code.....:

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date Time
MD	Method Duplicate		954301-2	Solid	100	09/28/95 0800

Test Description	Detection Limit	QC Value	Diluted Value	Orig. Value	Alt. Value	RPD	ABS Diff.
Total Recoverable Petroleum Hydrocarbons	1	190		190		0	

QUALITY CONTROL REPORT
Report Date: 10/11/95
Job Number....: 954301 Project....: ENRON-WTI/4230

Method Description.: Semivolatile Organics (Client List) Status.....: RVWD Calc Code.....: Analyst ...: mla
Method Code.....: 8270C QC Code.....: 8000 Equipment Code..:
Batch Code.....: 2363 Units.....: ug/L Import Code.....:

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
MB	Method Blank	MB0698				09/29/95	1515

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Acenaphthene	10	ND			
Acenaphthylene	10	ND			
Acetophenone	10	ND			
4-Aminobiphenyl	10	ND			
Aniline	10	ND			
Anthracene	10	ND			
Benzidine	50	ND			
Benzo(a)anthracene	10	ND			
Benzo(b)fluoranthene	10	ND			
Benzo(j)fluoranthene	10	ND			
Benzo(k)fluoranthene	10	ND			
Benzo(ghi)perylene	10	ND			
Benzo(a)pyrene	10	ND			
Benzyl alcohol	10	ND			
Butyl benzyl phthalate	10	ND			
Bis(2-chloroethoxy)methane	10	ND			
Bis(2-chloroethyl)ether	10	ND			
Bis(2-chloroisopropyl)ether	10	ND			
Bis(2-ethylhexyl)phthalate	10	ND			
4-Bromophenyl phenyl ether	10	ND			
4-Chloroaniline	10	ND			
Chlorobenzilate	10	ND			
1-Chloronaphthalene	10	ND			
2-Chloronaphthalene	10	ND			
4-Chlorophenyl phenyl ether	10	ND			
Chrysene	10	ND			
Diallate	10	ND			
Dibenzo(a,j)acridine	10	ND			
Dibenzo(a,h)anthracene	10	ND			
Dibenzofuran	10	ND			
1,2-Dichlorobenzene	10	ND			
1,3-Dichlorobenzene	10	ND			

QUALITY CONTROL REPORT
Report Date: 10/11/95
Job Number....: 954301 Project....: ENRON-WTI/4230

Method Description.: Semivolatile Organics (Client List) Status.....: RVWD Calc Code.....: Analyst ...: mla
Method Code.....: 8270C QC Code.....: 8000 Equipment Code..:
Batch Code.....: 2363 Units.....: ug/L Import Code.... :

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
MB	Method Blank	MB0698				09/29/95	1515

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
1,4-Dichlorobenzene	10	ND			
3,3-Dichlorobenzidine	20	ND			
Diethyl phthalate	10	ND			
p-Dimethylaminoazobenzene	10	ND			
Dimethoate	20	ND			
7,12-Dimethylbenz(a)anthracene	10	ND			
alpha, alpha-Dimethylphenethylamine	10	ND			
Dimethyl phthalate	10	ND			
Di-n-butyl phthalate	10	28.05			
Di-n-octyl phthalate	10	ND			
2,4-Dinitrotoluene	10	ND			
2,6-Dinitrotoluene	10	ND			
Dinoseb (DNBP)	20	ND			
Diphenylamine	10	ND			
1,2-Diphenylhydrazine	10	ND			
Disulfoton	10	ND			
Ethyl methane sulfonate	20	ND			
Fluoranthene	10	ND			
Fluorene	10	ND			
Hexachlorobenzene	10	ND			
Hexachlorobutadiene	10	ND			
Hexachlorocyclopentadiene	10	ND			
Hexachloroethane	10	ND			
Hexachlorophene	100	ND			
Hexachloropropene	10	ND			
Indeno(1,2,3-cd)pyrene	10	ND			
Isodrin	10	ND			
Isophorone	10	ND			
Isosafrole	10	ND			
Kepone	50	ND			
Methapyrilene	10	ND			
3-Methylcholanthrene	10	ND			

QUALITY CONTROL REPORT
Report Date: 10/11/95
Job Number....: 954301 Project....: ENRON-WTI/4230

Method Description.: Semivolatile Organics (Client List) Status.....: RVWD Calc Code.....: Analyst ...: mla
Method Code.....: 8270C QC Code.....: 8000 Equipment Code..:
Batch Code.....: 2363 Units.....: ug/L Import Code.....:

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
MB	Method Blank	MB0698				09/29/95	1515

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Methyl methane sulfonate	10	ND			
2-Methylnaphthalene	10	ND			
Naphthalene	10	ND			
1,4-Naphthoquinone	10	ND			
1-Naphthylamine	10	ND			
2-Naphthylamine	10	ND			
o-Nitroaniline	50	ND			
m-Nitroaniline	50	ND			
p-Nitroaniline	50	ND			
Nitrobenzene	10	ND			
4-Nitroquinoline-1-oxide	10	ND			
n-Nitrosodi-n-butylamine	10	ND			
n-Nitrosodiethylamine	10	ND			
n-Nitrosodimethylamine	10	ND			
n-Nitrosomethylethylamine	10	ND			
n-Nitrosomorpholine	10	ND			
n-Nitrosodi-n-propylamine	10	ND			
n-Nitrosodiphenylamine	10	ND			
n-Nitrosopiperidine	10	ND			
n-Nitrosopyrolidine	10	ND			
5-Nitro-o-toluidine	10	ND			
Ethyl parathion	10	ND			
Pentachlorobenzene	10	ND			
Pentachloronitrobenzene	10	ND			
Phenacetin	10	ND			
Phenanthrene	10	ND			
p-Phenylenediamine	10	ND			
Phorate	10	ND			
2-Picoline	10	ND			
Pronamide	10	ND			
Pyrene	10	ND			
Pyridine	10	ND			

QUALITY CONTROL REPORT
Report Date: 10/11/95
Job Number....: 954301 Project....: ENRON-WTI/4230

Method Description.: Semivolatile Organics (Client List) Status.....: RVWD Calc Code.....: Analyst ...: mla
Method Code.....: 8270C QC Code.....: 8000 Equipment Code..:
Batch Code.....: 2363 Units.....: ug/L Import Code.....:

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
MB	Method Blank	MB0698				09/29/95	1515

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Safrole	10	ND			
1,2,4,5-Tetrachlorobenzene	10	ND			
o-Toluidine	10	ND			
1,2,4-Trichlorobenzene	10	ND			
O,O,O-Triethyl phosphorothioate	10	ND			
1,3,5-Trinitrobenzene	10	ND			
Benzoic acid	50	ND			
4-Chloro-3-methylphenol	10	ND			
2-Chlorophenol	10	ND			
2,4-Dichlorophenol	10	ND			
2,6-Dichlorophenol	10	ND			
2,4-Dimethylphenol	10	ND			
2,4-Dinitrophenol	50	ND			
2-Methyl-4,6-dinitrophenol	50	ND			
2-Methylphenol (o-cresol)	10	ND			
3 & 4 Methylphenol (m&p cresol)	10	ND			
2-Nitrophenol	10	ND			
4-Nitrophenol	50	ND			
Pentachlorophenol	50	ND			
Phenol	10	ND			
2,3,4,6-Tetrachlorophenol	10	ND			
2,4,5-Trichlorophenol	10	ND			
2,4,6-Trichlorophenol	10	ND			

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
ST	Spiked Blank	B950525B		Solid		09/29/95	1613

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Acenaphthene	10	78.59	100.0			78.6
1,4-Dichlorobenzene	10	68.91	100.5			68.6
2,4-Dinitrotoluene	10	91.52	100.0			91.5

QUALITY CONTROL REPORT
Report Date: 10/11/95
Job Number....: 954301 Project....: ENRON-WTI/4230

Method Description.: Semivolatile Organics (Client List) Status.....: RVWD Calc Code.....: Analyst ...: mla
Method Code.....: 8270C QC Code.....: 8000 Equipment Code..:
Batch Code.....: 2363 Units.....: ug/L Import Code.....:

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date Time
ST	Spiked Blank	B950525B		Solid		09/29/95 1613

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
n-Nitrosodi-n-propylamine	10	82.76	100.4			82.4
Pyrene	10	93.84	99.94			93.9
1,2,4-Trichlorobenzene	10	74.75	99.92			74.8
4-Chloro-3-methylphenol	10	92.65	99.99			92.7
2-Chlorophenol	10	90.64	99.94			90.7
4-Nitrophenol	50	112.59	100.5			112.0
Pentachlorophenol	50	104.13	99.98			104.2
Phenol	10	95.83	99.92			95.9

STD	Spiked Blank Duplicate	B950525B		Solid		09/29/95 1711

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC	RPD
Acenaphthene	10	78.07	100.0		78.59	78.1	0
1,4-Dichlorobenzene	10	70.20	100.5		68.91	69.9	2
2,4-Dinitrotoluene	10	78.37	100.0		91.52	78.4	15
n-Nitrosodi-n-propylamine	10	81.73	100.4		82.76	81.4	1
Pyrene	10	88.94	99.94		93.84	89.0	5
1,2,4-Trichlorobenzene	10	76.66	99.92		74.75	76.7	3
4-Chloro-3-methylphenol	10	83.07	99.99		92.65	83.1	11
2-Chlorophenol	10	91.65	99.94		90.64	91.7	1
4-Nitrophenol	50	97.33	100.5		112.59	96.8	15
Pentachlorophenol	50	97.60	99.98		104.13	97.6	6
Phenol	10	94.68	99.92		95.83	94.8	1

CORE LABORATORIES

QUALITY CONTROL REPORT

Report Date: 10/11/95

Job Number....: 954301 Project....: ENRON-WTI/4230

Method Description.: Sulfide, Total (solids/waste)
Method Code.....: 9030
Batch Code.....: 2671

Status.....: RVWD
QC Code.....: STD
Units.....: mg/L

Calc Code.....:
Equipment Code..:
Import Code.....:

Analyst ...: * cc

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
MS	Matrix Spike	MS01	952863-2	Solid		10/10/95	0800

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Sulfide	50	3662	2480	1255		97.1

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
MD	Method Duplicate		952863-2	Solid		10/10/95	0800

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	RPD	ABS Diff.
Sulfide	50	1255		1255	1255	0	

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
MB	Method Blank	101095		Solid		10/10/95	0800

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Sulfide	50	0			

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
LCS	Laboratory Control Sample	5081817		Solid		10/10/95	0800

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Sulfide	50	59	60			98.3

QUALITY CONTROL REPORT
SURROGATE RECOVERIES
Report Date: 10/11/95

Method Description.: PCB Analysis
Method Code.....: 8080PC
Batch Code.....: 2194

Status.....: RVWD
QC Code.....: 8000

Calc Code.....:
Equipment Code..:
Import Code.....:

Analyst ...: lb
Job Number.: 954301

Surrogate	Test Matrix	Dilution Factor
2,4,5,6-Tetrachloro-m-xylene	Solid	100

Lab ID	QC Type	Result	Units	True Value	Percent Recovery	Flag	Date	Time
954212-8		0.00570	ug/L	0.1000	114		09/26/95	0235
954301-1		0.0198	ug/L	0.1000	198	X	09/26/95	0304
954301-2		0.0116	ug/L	0.1000	116		09/26/95	0333
954301-3		0.00216	ug/L	0.1000	22	X	09/26/95	0403
954301-4		0.00829	ug/L	0.1000	83		09/26/95	0432
	MB	0.0876	ug/L	0.1000	88		09/23/95	1202
	SB	0.0796	ug/L	0.1000	80		09/25/95	1056
	SBD	0.0804	ug/L	0.1000	80		09/25/95	1125
954274-1		0.0281	ug/L	0.1000	56	X	09/26/95	1628
	MB	0.103	ug/L	0.1000	103		09/26/95	1500
	SB	0.0904	ug/L	0.1000	90		09/26/95	1529
	SBD	0.0907	ug/L	0.1000	91		09/26/95	1559
954328-11		0.0688	ug/L	0.1000	69		09/26/95	1854
	MB	0.101	ug/L	0.1000	101		09/26/95	1727
	SB	0.0862	ug/L	0.1000	86		09/26/95	1756
	SBD	0.0908	ug/L	0.1000	91		09/26/95	0825

Surrogate	Test Matrix	Dilution Factor
4,4'-Dichlorobiphenyl	Solid	100

Lab ID	QC Type	Result	Units	True Value	Percent Recovery	Flag	Date	Time
954212-8		0.00841	ug/L	0.1000	168	X	09/26/95	0235
954301-1		0.00812	ug/L	0.1000	81		09/26/95	0304
954301-2		0.00507	ug/L	0.1000	51	X	09/26/95	0333
954301-3		0.00836	ug/L	0.1000	84		09/26/95	0403
954301-4		0.0226	ug/L	0.1000	226	X	09/26/95	0432
	MB	0.0855	ug/L	0.1000	86		09/23/95	1202
	SB	0.0836	ug/L	0.1000	84		09/25/95	1056

QUALITY CONTROL REPORT
SURROGATE RECOVERIES
Report Date: 10/11/95

Method Description.: PCB Analysis
Method Code.....: 8080PC
Batch Code.....: 2194

Status.....: RVWD
QC Code.....: 8000

Calc Code.....:
Equipment Code..:
Import Code.....:

Analyst ...: lb
Job Number.: 954301

Surrogate	Test Matrix	Dilution Factor
4,4'-Dichlorobiphenyl		100

Lab ID	QC Type	Result	Units	True Value	Percent Recovery	Flag	Date	Time
	SBD	0.0902	ug/L	0.1000	90		09/25/95	1125
954274-1		0.0377	ug/L	0.1000	75		09/26/95	1628
	MB	0.0939	ug/L	0.1000	94		09/26/95	1500
	SB	0.0827	ug/L	0.1000	83		09/26/95	1529
	SBD	0.0828	ug/L	0.1000	83		09/26/95	1559
954328-11		0.0625	ug/L	0.1000	62		09/26/95	1854
	MB	0.0946	ug/L	0.1000	95		09/26/95	1727
	SB	0.0803	ug/L	0.1000	80		09/26/95	1756
	SBD	0.0851	ug/L	0.1000	85		09/26/95	0825

QUALITY CONTROL REPORT
SURROGATE RECOVERIES
Report Date: 10/11/95

Method Description.: Volatile Organics (Client Requested)
Method Code.....: 8240C
Batch Code.....: 2232
Status.....: RVWD
QC Code.....: 8000
Calc Code.....:
Equipment Code..:
Import Code.....:
Analyst ...: bfr
Job Number.: 954301

Surrogate	Test Matrix	Dilution Factor
4-Bromofluorobenzene	Solid	2.74

Lab ID	QC Type	Result	Units	True Value	Percent Recovery	Flag	Date	Time
	RS	51.6	ug/L	50.1861	102.8		09/22/95	1409
	MB	51.5	ug/L	50.1861	102.6		09/22/95	1444
	ST	52.0	ug/L	50.1861	103.6		09/22/95	1523
	STD	51.6	ug/L	50.1861	102.8		09/22/95	1554
954301-5		52.1	ug/L	50.1861	103.8		09/22/95	1730
954301-1		54.1	ug/L	50.1861	107.8		09/22/95	1802
954301-2		48.2	ug/L	50.1861	96.0		09/22/95	1834

Surrogate	Test Matrix	Dilution Factor
Dibromofluoromethane	Solid	2.74

Lab ID	QC Type	Result	Units	True Value	Percent Recovery	Flag	Date	Time
	RS	49.4	ug/L	50.1095	98.6		09/22/95	1409
	MB	52.0	ug/L	50.1095	103.8		09/22/95	1444
	ST	51.0	ug/L	50.1095	101.8		09/22/95	1523
	STD	50.9	ug/L	50.1095	101.6		09/22/95	1554
954301-5		54.3	ug/L	50.1095	108.4		09/22/95	1730
954301-1		53.3	ug/L	50.1095	106.4		09/22/95	1802
954301-2		51.1	ug/L	50.1095	102.0		09/22/95	1834

QUALITY CONTROL REPORT
SURROGATE RECOVERIES
Report Date: 10/11/95

Method Description.: Volatile Organics (Client Requested)
Method Code.....: 8240C
Batch Code.....: 2232
Status.....: RVWD
QC Code.....: 8000
Calc Code.....:
Equipment Code..:
Import Code.....:
Analyst ...: bfr
Job Number.: 954301

Surrogate	Test Matrix	Dilution Factor
Toluene-d8	Solid	2.74

Lab ID	QC Type	Result	Units	True Value	Percent Recovery	Flag	Date	Time
	RS	50.1	ug/L	50.1898	99.8		09/22/95	1409
	MB	50.8	ug/L	50.1898	101.2		09/22/95	1444
	ST	50.0	ug/L	50.1898	99.6		09/22/95	1523
	STD	50.5	ug/L	50.1898	100.6		09/22/95	1554
954301-5		50.8	ug/L	50.1898	101.2		09/22/95	1730
954301-1		51.4	ug/L	50.1898	102.4		09/22/95	1802
954301-2		50.2	ug/L	50.1898	100.0		09/22/95	1834

QUALITY CONTROL REPORT
SURROGATE RECOVERIES
Report Date: 10/11/95

Method Description.: Volatile Organics (Client Requested)
Method Code.....: 8240C
Batch Code.....: 2242
Status.....: RVWD
QC Code.....: 8000
Calc Code.....:
Equipment Code..:
Import Code.....:
Analyst ...: bfr
Job Number.: 954301

Surrogate	Test Matrix	Dilution Factor
4-Bromofluorobenzene	Solid	2.74

Lab ID	QC Type	Result	Units	True Value	Percent Recovery	Flag	Date	Time
	MB	51.0	ug/L	50.1861	101.6		09/25/95	1705
	MLE	57.6	ug/L	50.1861	114.8		09/25/95	2344
954301-1		53.4	ug/L	50.1861	106.4		09/25/95	0023

Surrogate	Test Matrix	Dilution Factor
Dibromofluoromethane	Solid	2.74

Lab ID	QC Type	Result	Units	True Value	Percent Recovery	Flag	Date	Time
	MB	47.8	ug/L	50.1095	95.4		09/25/95	1705
	MLE	52.3	ug/L	50.1095	104.4		09/25/95	2344
954301-1		52.9	ug/L	50.1095	105.6		09/25/95	0023

Surrogate	Test Matrix	Dilution Factor
Toluene-d8	Solid	2.74

Lab ID	QC Type	Result	Units	True Value	Percent Recovery	Flag	Date	Time
	MB	48.7	ug/L	50.1898	97.0		09/25/95	1705
	MLE	49.5	ug/L	50.1898	98.6		09/25/95	2344
954301-1		49.9	ug/L	50.1898	99.4		09/25/95	0023

QUALITY CONTROL REPORT
SURROGATE RECOVERIES
Report Date: 10/11/95

Method Description.: Volatile Organics (Client Requested)
Method Code.....: 8240C
Batch Code.....: 2287
Status.....: RVWD
QC Code.....: 8000
Calc Code.....:
Equipment Code..:
Import Code.....:
Analyst ...: bfr
Job Number.: 954301

Surrogate	Test Matrix	Dilution Factor
4-Bromofluorobenzene	Solid	2.74

Lab ID	QC Type	Result	Units	True Value	Percent Recovery	Flag	Date	Time
	MB	46.6	ug/L	50.1861	92.9		09/27/95	1852
	RS	48.1	ug/L	50.1861	95.8		09/27/95	1945
954301-3		39.9	ug/L	50.1861	79.5		09/27/95	2145
954301-4		35.4	ug/L	50.1861	70.5	X	09/27/95	2049
954301-4		33.9	ug/L	50.1861	67.5	X	09/27/95	2217

Surrogate	Test Matrix	Dilution Factor
Dibromofluoromethane	Solid	2.74

Lab ID	QC Type	Result	Units	True Value	Percent Recovery	Flag	Date	Time
	MB	50.5	ug/L	50.1095	100.8		09/27/95	1852
	RS	50.0	ug/L	50.1095	99.8		09/27/95	1945
954301-3		54.1	ug/L	50.1095	108.0		09/27/95	2145
954301-4		53.7	ug/L	50.1095	107.2		09/27/95	2049

Surrogate	Test Matrix	Dilution Factor
Toluene-d8	Solid	2.74

Lab ID	QC Type	Result	Units	True Value	Percent Recovery	Flag	Date	Time
	MB	49.8	ug/L	50.1898	99.2		09/27/95	1852
	RS	49.5	ug/L	50.1898	98.6		09/27/95	1945
954301-3		45.5	ug/L	50.1898	90.7		09/27/95	2145
954301-4		45.4	ug/L	50.1898	90.5		09/27/95	2049

QUALITY CONTROL REPORT
SURROGATE RECOVERIES
Report Date: 10/11/95

Method Description.: Semivolatile Organics (Client List)
Method Code.....: 8270C
Batch Code.....: 2363
Status.....: RVWD
QC Code.....: 8000
Calc Code.....:
Equipment Code..:
Import Code.....:
Analyst ...: mla
Job Number.: 954301

Surrogate	Test Matrix	Dilution Factor
2,4,6-Tribromophenol		

Lab ID	QC Type	Result	Units	True Value	Percent Recovery	Flag	Date	Time
	MB	80.30	ug/L	100.0100	80		09/29/95	1515
	ST	108.54	ug/L	100.0100	109		09/29/95	1613
	STD	89.86	ug/L	100.0100	90		09/29/95	1711
954301-1		1.20	ug/L	100.0100	60		09/29/95	1909
954301-2		1.13	ug/L	100.0100	56		09/29/95	2007
954301-3		ND	ug/L	100.0100	0	X	09/29/95	2105
954301-4		0.36	ug/L	100.0100	36		09/29/95	2203
954301-4		0.15	ug/L	100.0100	15	X	10/03/95	1356

Surrogate	Test Matrix	Dilution Factor
2-Fluorobiphenyl		

Lab ID	QC Type	Result	Units	True Value	Percent Recovery	Flag	Date	Time
	MB	33.61	ug/L	50.0000	67		09/29/95	1515
	ST	37.62	ug/L	50.0000	75		09/29/95	1613
	STD	36.14	ug/L	50.0000	72		09/29/95	1711
954301-1		0.68	ug/L	50.0000	68		09/29/95	1909
954301-2		0.69	ug/L	50.0000	69		09/29/95	2007
954301-3		ND	ug/L	50.0000	0	X	09/29/95	2105
954301-4		0.37	ug/L	50.0000	74		09/29/95	2203
954301-4		0.39	ug/L	50.0000	78		10/03/95	1356

QUALITY CONTROL REPORT
SURROGATE RECOVERIES
Report Date: 10/11/95

Method Description.: Semivolatile Organics (Client List)
Method Code.....: 8270C
Batch Code.....: 2363
Status.....: RVWD
QC Code.....: 8000
Calc Code.....:
Equipment Code..:
Import Code.....:
Analyst ...: mla
Job Number.: 954301

Surrogate	Test Matrix	Dilution Factor
2-Fluorophenol		

Lab ID	QC Type	Result	Units	True Value	Percent Recovery	Flag	Date	Time
	MB	89.82	ug/L	99.9900	90		09/29/95	1515
	ST	98.15	ug/L	99.9900	98		09/29/95	1613
	STD	96.24	ug/L	99.9900	96		09/29/95	1711
954301-1		1.38	ug/L	99.9900	69		09/29/95	1909
954301-2		1.37	ug/L	99.9900	69		09/29/95	2007
954301-3		ND	ug/L	99.9900	0	X	09/29/95	2105
954301-4		0.71	ug/L	99.9900	71		09/29/95	2203
954301-4		0.70	ug/L	99.9900	70		10/03/95	1356

Surrogate	Test Matrix	Dilution Factor
Nitrobenzene-d5		

Lab ID	QC Type	Result	Units	True Value	Percent Recovery	Flag	Date	Time
	MB	33.85	ug/L	50.0500	68		09/29/95	1515
	ST	38.51	ug/L	50.0500	77		09/29/95	1613
	STD	38.09	ug/L	50.0500	76		09/29/95	1711
954301-1		1.10	ug/L	50.0500	110		09/29/95	1909
954301-2		0.84	ug/L	50.0500	84		09/29/95	2007
954301-3		ND	ug/L	50.0500	0	X	09/29/95	2105
954301-4		0.34	ug/L	50.0500	68		09/29/95	2203
954301-4		0.40	ug/L	50.0500	80		10/03/95	1356

QUALITY CONTROL REPORT
SURROGATE RECOVERIES
Report Date: 10/11/95

Method Description.: Semivolatile Organics (Client List)
Method Code.....: 8270C
Batch Code.....: 2363
Status.....: RVWD
QC Code.....: 8000
Calc Code.....:
Equipment Code..:
Import Code.....:
Analyst ...: mla
Job Number.: 954301

Surrogate	Test Matrix	Dilution Factor
Phenol-d6		

Lab ID	QC Type	Result	Units	True Value	Percent Recovery	Flag	Date	Time
	MB	85.39	ug/L	100.0400	85		09/29/95	1515
	ST	82.41	ug/L	100.0400	82		09/29/95	1613
	STD	81.98	ug/L	100.0400	82		09/29/95	1711
954301-1		2.13	ug/L	100.0400	106		09/29/95	1909
954301-2		1.84	ug/L	100.0400	92		09/29/95	2007
954301-3		ND	ug/L	100.0400	0	X	09/29/95	2105
954301-4		0.70	ug/L	100.0400	70		09/29/95	2203
954301-4		0.66	ug/L	100.0400	66		10/03/95	1356

Surrogate	Test Matrix	Dilution Factor
Terphenyl-d14		

Lab ID	QC Type	Result	Units	True Value	Percent Recovery	Flag	Date	Time
	MB	41.32	ug/L	50.0600	83		09/29/95	1515
	ST	47.42	ug/L	50.0600	95		09/29/95	1613
	STD	46.62	ug/L	50.0600	93		09/29/95	1711
954301-1		1.01	ug/L	50.0600	101		09/29/95	1909
954301-2		0.95	ug/L	50.0600	95		09/29/95	2007
954301-3		ND	ug/L	50.0600	0	X	09/29/95	2105
954301-4		0.53	ug/L	50.0600	106		09/29/95	2203
954301-4		0.53	ug/L	50.0600	106		10/03/95	1356

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 10/11/95

Volatile Organics

Method 602/8020

Surrogate Recovery Limits

	Water	Soil
Bromofluorobenzene	89-110%	78-123%

Spike/Spike Duplicate Recovery Limits

	Water	Soil
Benzene	75-125%	75-125%
Ethylbenzene	75-125%	75-125%
Toluene	75-125%	75-125%
Xylenes	75-125%	75-125%

Method 8015 Modified

Spike/Spike Duplicate Recovery Limits

	Water	Soil
TVPH	81-124%	81-124%
TEPH	54-135%	54-135%

Method 624/8240/8260

Surrogate Recovery Limits

	Water	Soil
Dibromofluoromethane	86-118%	80-120%
Toluene-(d8)	88-110%	81-117%
4-Bromofluorobenzene	86-115%	74-121%

Spike/Spike Duplicate Recovery & RPD Limits

	Water Recovery	RPD	Soil Recovery	RPD
1,1-Dichloroethene	61-145%	14	59-172%	22
Trichloroethene	71-120%	14	62-137%	24
Benzene	76-127%	11	66-142%	21
Toluene	76-125%	13	59-139%	21
Chlorobenzene	75-130%	13	60-133%	21

Pesticides/PCB Organics

Method 608/8080

Surrogate Recovery Limits

	Water	Soil
Tetrachloro-m-xylene	60-150%	60-150%
4,4'-Dichlorobiphenyl	60-150%	60-150%

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 10/11/95

Method 8140
Surrogate Recovery Limits

	Water	Soil
Tributylphosphate	36-152%	36-152%
Triphenylphosphate	40-152%	40-152%

Base/Neutral/Acid Organics
Method 625/8270
Surrogate Recovery Limits

	Water	Soil
Nitrobenzene-d5	35-114%	23-120%
2-Fluorobiphenyl	43-116%	30-115%
4-Terphenyl-d14	33-141%	18-137%
Phenol-d6	10-94%	24-113%
2-Fluorophenol	21-100%	25-121%
2,4,6-Tribromophenol	10-123%	19-122%

Matrix Spike/Matrix Spike Duplicate Recovery & RPD Limits

	Water		Soil	
	Recovery	RPD	Recovery	RPD
Phenol	12-110%	42	26-90%	35
2-Chlorophenol	27-123%	40	25-102%	50
1,4-Dichlorobenzene	36-97%	28	28-104%	27
N-Nitroso-di-n-propylamine	41-116%	38	41-126%	38
1,2,4-Trichlorobenzene	39-98%	28	38-107%	23
4-Chloro-3-methylphenol	23-97%	42	26-103%	33
Acenaphthene	46-118%	31	31-137%	19
4-Nitrophenol	10-80%	50	11-114%	50
2,4-Dintrotoluene	24-96%	38	28-89%	47
Pentachlorophenol	9-103%	50	17-109%	47
Pyrene	26-127%	31	35-142%	36

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 10/11/95

(1) EPA 600/4-79-020, Methods for Chemical Analysis of Water and Wastes, March 1983

(2) EPA SW-846, Test Methods for Evaluating Solid Waste, Third Edition, 1989

(3) Standard Methods for The Examination of Water and Wastewater, 17th Edition, 1989

(4) EPA 600/4-80-032, Prescribed Procedures For Measurement Of Radioactivity In Drinking Water, August 1980

(5) EPA 600/8-78-017, Microbiological Methods For Monitoring The Environment, December 1978

(6) Federal Register, July 1, 1990 (40 CFR Part 136)

(7) EPA 600/4-88-03, Methods For The Determination of Organics Compounds in Drinking Water, December 1988

(8) U.S.G.S. Methods For Determination of Inorganic Substances In Water And Fluvial Sediments, Book 5, Chapter A1, 1985

(9) Federal Register, Friday, June 7, 1991 (40 CFR Parts 141 & 142)

(10) Standard Methods For The Examination of Water and Wastewater, 16th Edition, 1985

(11) ASTM, Section 11 Water ... d Environmental Technology, Volume 11.01 Water (1), 1991

(12) Methods of Soil Analysis, American Society of Agronomy, Agronomy No. 9, 1965

(13) EPA SW-846, Test Methods For Evaluating Solid Waste, Third Edition, Revision 1, November 1990

(14) ASTM, Section 5, Petroleum Products, Lubricants, and Fossil Fuels, Volume 05.05, Gaseous Fuels, Coal, and Coke

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 10/11/95

(15) EPA 600/2-78-054, Field and Laboratory Methods Applicable To Overburdens and Mine Soils, March 1978

(16) ASTM, Part 19, Soils and Rocks; Building Stones, 1981

Comments: Data in the QA report may differ from final results due to digestion and/or dilution of sample into analytical ranges. The "Time Analyzed" in the QA report refers to the start time of the analytical batch which may not reflect the actual time of each analysis. -The "Date Analyzed" is the actual date of analysis. Results for soil and sludge samples are reported on a wet weight basis (i.e. not corrected for percent moisture) unless otherwise indicated.

NC = Not Calculable Due to Value(s) lower than the Detection Limit.

BLANK QC SAMPLE IDENTIFICATION

MB	Method Blank
ICB	Initial Calibration Blank
CCB	Continuing Calibration Blank

SPIKE QC SAMPLE IDENTIFICATION

MS	Method (Matrix) Spike
MSD	Method (Matrix) Spike Duplicate
PDS	Post Digestion Spike
SB	Spiked Blank
SBD	Spike Blank Duplicate

REFERENCE STANDARD QC SAMPLE IDENTIFICATION

LCS	Laboratory Control Standard
RS	Reference Standard
ICV	Initial Calibration Verification Standard
CCV	Continuing Calibration Verification Standard
ISA/ISB	ICP Interface Check Sample
ICL	Initial Calibration/Laboratory Control Sample
DSC	Distilled Standard Check

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 10/11/95

DUPLICATE QC SAMPLE IDENTIFICATION

MD	Method (Matrix) Duplicate
ED	Extraction Duplicate
DD	Digestion Duplicate

Analyses performed by a subcontract laboratory are indicated on the analytical and/or quality control reports under "technician" using the following codes:

SUBCONTRACT LABORATORY	CODE
Core Laboratories - Anaheim, CA	* AN
Core Laboratories - Casper, WY	* CA
Core Laboratories - Corpus Christi, TX	* CC
Core Laboratories - Houston, TX	* HP
Core Laboratories - Lake Charles, LA	* LC
Core Laboratories - Long Beach, CA	* LB
Other Subcontract Laboratories	* XX

EXPLANATION OF DATA FLAGS

B - This flag is used to indicate that an analyte is present in the method blank as well as in the sample. It indicates that the client should consider this when evaluating the results.

D - This flag indicates that surrogates were diluted out of calibration range and cannot be quantified.

E - Indicates that a sample result is an estimate because the concentration exceeded the calibration range of the instrument.

I - Used to indicate matrix interference.

J - Indicates that a value is an estimate. It is used when a compound is determined to be present based on the mass spectral data, but at a concentration less than the practical quantitation limit of the method. This flag is also used when estimating the concentration of a tentatively identified compound.

X - Indicates that a surrogate recovery is outside the specified quality control limits.

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 10/11/95

Y - Used to identify a spike or spike duplicate recovery that is outside the specified quality control limits.
Z - Indicates a relative percent difference for a spike and spike duplicate is outside the specified quality control limits.
* - Indicates a relative percent difference for a duplicate analysis is outside the specified quality control limits.
^ - Used to indicate that a standard is outside specified quality control limits.

CORE LABORATORIES

ANALYTICAL REPORT

Job Number: 954302
Prepared For:

Daniel B. Stevens & Associates
Bob Marley
6020 Academy NE
Suite 100

Albuquerque, NM 87109

Date: 10/10/95

Signature

10·10·95
Date

Name: David J. Marshall

Title: Project Coordinator

CORE LABORATORIES, INC.
Analytical Chemistry Division
10703 East Bethany Drive
Aurora, CO 80014

CORE LAB

CORE LABORATORIES, INC. 26946

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: Daniel B. Stephens & Assoc	PROJECT NAME/NUMBER: ENRON - WT1 / 4230
SEND REPORT TO: Bob Marley	**BILLING INFORMATION**
ADDRESS: 6020 Academy NE Suite 100 Albuq NM 87109	BILL TO: SAME ADDRESS:
PHONE: 505 822-9400	PHONE:
FAX: 505 822-8877	FAX: PO NO.:

LAB JOB NO. 954302

SAMPLE NO.	SAMPLE ID/DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER TYPE	PRESERV	NUMBER OF CONTAINERS	ANALYSIS / METHOD REQUEST: 8240 Volatiles; Cl, SO4, TDS, Alkalinity; NO2, NO3, K, Ag, As, Ba, Cd, Ca, Na, Mg, Pb, Se, Cr, Hg	REMARKS / PRECAUTIONS
	Trip Blank			Water	Voa	HCl	1	X	
	MW-4	9/12/95	0900	Water	Voa	HCl	3	X	
	MW-7	9/12/95	1205	Water	Voa	HCl	3	X	
	MW-6	9/12/95	1400	Water	Voa	HCl	3	X	
	MW-5	9/12/95	1730	Water	Voa	HCl	3	X	
	MW-14	9/13/95	1330	Water	Varies	Varies	6	X X X X	
	MW-8	9/13/95	1305	Water	VOA	HCl	3	X	
	MW-15	9/14/95	1345	Water	Varies	Varies	6	X X X X	
	MW-16	9/14/95	1615	Water	Varies	Varies	6	X X X X	
	MW-1	9/14/95	1635	Water	VOA	HCl	3	X	
	MW-99	9/14/95	—	Water	VOA	HCl	3	X	

SAMPLER: Marley / Hovda

SHIPMENT METHOD:

AIRBILL NO.:

REQUIRED TURNAROUND:* ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☒ ROUTINE OTHER

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Rob Marley	9/16/95	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: Bob Marley / DBS&A	TIME 1500	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE: Brenda J Hill	9/16/95	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: Hill CORE	TIME 1000	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

* RUSH TURNAROUND MAY REQUIRE SURCHARGE

☐ **Anaheim, California** 1250 E. Gene Autry Way, Anaheim, California 92805, (714) 937-1094, (800) 404-2673

☐ **Long Beach, California** 3700 Cherry Avenue, Long Beach, California 90807, (310) 595-8401, (800) 814-3433

☒ **Denver (Aurora), Colorado** 10703 E. Bethany Drive, Aurora, Colorado 80014, (303) 751-1780, (800) 972-2673

☐ **Casper, Wyoming** 420 West 1st Street, Casper, Wyoming 82601, (307) 235-5741, (800) 666-0306

☐ **Houston, Texas** 8210 Mosley Road, Houston, Texas 77075, (713) 943-9776, (800) 734-2673

☐ **Corpus Christi, Texas** 1733 North Padre Island Drive, Corpus Christi, Texas 78408, (512) 289-2673, (800) 548-8228

☐ **Lake Charles, Louisiana** 3645 Beglis Parkway, Sulphur, Louisiana 70663, (318) 583-4926, (800) 259-4926

CORE LABORATORIES

JOB SAMPLE INFORMATION

Report Date: 10/10/95

Job Number.....: 954302
Customer .....: Daniel B. Stevens & Associates
Job Receive Date....: 09/18/95

Project Number.....: 95000272
Customer Project ID....: ENRON-WTI/4230
Project Description....: DBStevens

Laboratory Sample ID.	Customer Sample ID.	Sample Matrix	Sample Date	Sample Time	Received Date	Received Time
954302-1	MW-4	Water	09/12/95	09:00	09/18/95	10:00
954302-2	MW-7	Water	09/12/95	12:05	09/18/95	10:00
954302-3	MW-6	Water	09/12/95	14:00	09/18/95	10:00
954302-4	MW-5	Water	09/12/95	17:30	09/18/95	10:00
954302-5	MW-14	Water	09/13/95	13:30	09/18/95	10:00
954302-6	MW-8	Water	09/13/95	13:05	09/18/95	10:00
954302-7	MW-15	Water	09/14/95	13:45	09/18/95	10:00
954302-8	MW-16	Water	09/14/95	16:15	09/18/95	10:00
954302-9	MW-1	Water	09/14/95	16:35	09/18/95	10:00
954302-10	MW-99	Water	09/14/95	00:00	09/18/95	10:00
954302-11	TRIP BLANK	Water			09/18/95	10:00

CORE LABORATORIES

LABORATORY TESTS RESULTS
Report Date: 10/10/95

JOB NUMBER: 954302 PROJECT: ENRON-WTI/4230 CUSTOMER: Daniel B. Stevens & Associates ATTN: Bob Marley

Customer Sample ID.: MW-4
Sample Date.....: 09/12/95
Sample Time.....: 09:00
Sample Matrix.....: Water

Laboratory Sample ID.: 954302-1
Date Received.....: 09/18/95
Time Received.....: 10:00

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS OF MEASURE	TEST METHOD	DATE ANALYZED	TECHNICIAN
Volatile Organics					SW-846 8240		bfr
Acetone		ND	100	ug/L		09/20/95 1240	
Benzene		ND	1	ug/L		09/20/95 1240	
Bromodichloromethane		ND	5	ug/L		09/20/95 1240	
Bromoform		ND	5	ug/L		09/20/95 1240	
Bromomethane		ND	10	ug/L		09/20/95 1240	
Methyl ethyl ketone (2-Butanone)		ND	100	ug/L		09/20/95 1240	
Carbon disulfide		ND	5	ug/L		09/20/95 1240	
Carbon tetrachloride		ND	5	ug/L		09/20/95 1240	
Chlorobenzene		ND	5	ug/L		09/20/95 1240	
Chloroethane		ND	10	ug/L		09/20/95 1240	
2-Chloroethylvinyl ether		ND	10	ug/L		09/20/95 1240	
Chloroform		6	5	ug/L		09/20/95 1240	
Chloromethane		ND	10	ug/L		09/20/95 1240	
Dibromochloromethane		ND	5	ug/L		09/20/95 1240	
1,1-Dichloroethane		ND	5	ug/L		09/20/95 1240	
1,2-Dichloroethane		ND	5	ug/L		09/20/95 1240	
1,1-Dichloroethene		ND	5	ug/L		09/20/95 1240	
trans-1,2-Dichloroethene		ND	5	ug/L		09/20/95 1240	
1,2-Dichloropropane		ND	5	ug/L		09/20/95 1240	
cis-1,3-Dichloropropene		ND	5	ug/L		09/20/95 1240	
trans-1,3-Dichloropropene		ND	5	ug/L		09/20/95 1240	
Ethylbenzene		ND	5	ug/L		09/20/95 1240	
2-Hexanone		ND	50	ug/L		09/20/95 1240	
Methylene chloride		ND	5	ug/L		09/20/95 1240	
4-Methyl-2-pentanone (MIBK)		ND	50	ug/L		09/20/95 1240	
Styrene		ND	5	ug/L		09/20/95 1240	
1,1,2,2-Tetrachloroethane		ND	5	ug/L		09/20/95 1240	
Tetrachloroethene		ND	5	ug/L		09/20/95 1240	
Toluene		ND	5	ug/L		09/20/95 1240	

CORE LABORATORIES

L A B O R A T O R Y T E S T S R E S U L T S
Report Date: 10/10/95

JOB NUMBER: 954302 PROJECT: ENRON-WTI/4230 CUSTOMER: Daniel B. Stevens & Associates ATTN: Bob Marley

Customer Sample ID.: MW-4
Sample Date.....: 09/12/95
Sample Time.....: 09:00
Sample Matrix.....: Water

Laboratory Sample ID.: 954302-1
Date Received.....: 09/18/95
Time Received.....: 10:00

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS OF MEASURE	TEST METHOD	DATE ANALYZED	TECHNICIAN
1,1,1-Trichloroethane		ND	5	ug/L		09/20/95 1240	
1,1,2-Trichloroethane		ND	5	ug/L		09/20/95 1240	
Trichloroethene		ND	5	ug/L		09/20/95 1240	
Vinyl acetate		ND	50	ug/L		09/20/95 1240	
Vinyl chloride		ND	10	ug/L		09/20/95 1240	
Xylenes (total)		ND	5	ug/L		09/20/95 1240	

CORE LABORATORIES

LABORATORY TESTS RESULTS
Report Date: 10/10/95

JOB NUMBER: 954302 PROJECT: ENRON-WTI/4230 CUSTOMER: Daniel B. Stevens & Associates ATTN: Bob Marley

Customer Sample ID.: MW-7
Sample Date.....: 09/12/95
Sample Time.....: 12:05
Sample Matrix.....: Water

Laboratory Sample ID.: 954302-2
Date Received.....: 09/18/95
Time Received.....: 10:00

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS OF MEASURE	TEST METHOD	DATE ANALYZED	TECHNICIAN
Volatile Organics					SW-846 8240		bfr
Acetone		ND	100	ug/L		09/20/95 1311	
Benzene		6	1	ug/L		09/20/95 1311	
Bromodichloromethane		ND	5	ug/L		09/20/95 1311	
Bromoform		ND	5	ug/L		09/20/95 1311	
Bromomethane		ND	10	ug/L		09/20/95 1311	
Methyl ethyl ketone (2-Butanone)		ND	100	ug/L		09/20/95 1311	
Carbon disulfide		ND	5	ug/L		09/20/95 1311	
Carbon tetrachloride		ND	5	ug/L		09/20/95 1311	
Chlorobenzene		ND	5	ug/L		09/20/95 1311	
Chloroethane		ND	10	ug/L		09/20/95 1311	
2-Chloroethylvinyl ether		ND	10	ug/L		09/20/95 1311	
Chloroform		ND	5	ug/L		09/20/95 1311	
Chloromethane		ND	10	ug/L		09/20/95 1311	
Dibromochloromethane		ND	5	ug/L		09/20/95 1311	
1,1-Dichloroethane		22	5	ug/L		09/20/95 1311	
1,2-Dichloroethane		ND	5	ug/L		09/20/95 1311	
1,1-Dichloroethene		ND	5	ug/L		09/20/95 1311	
trans-1,2-Dichloroethene		ND	5	ug/L		09/20/95 1311	
1,2-Dichloropropane		ND	5	ug/L		09/20/95 1311	
cis-1,3-Dichloropropene		ND	5	ug/L		09/20/95 1311	
trans-1,3-Dichloropropene		ND	5	ug/L		09/20/95 1311	
Ethylbenzene		ND	5	ug/L		09/20/95 1311	
2-Hexanone		ND	50	ug/L		09/20/95 1311	
Methylene chloride		ND	5	ug/L		09/20/95 1311	
4-Methyl-2-pentanone (MIBK)		ND	50	ug/L		09/20/95 1311	
Styrene		ND	5	ug/L		09/20/95 1311	
1,1,2,2-Tetrachloroethane		ND	5	ug/L		09/20/95 1311	
Tetrachloroethene		ND	5	ug/L		09/20/95 1311	
Toluene		ND	5	ug/L		09/20/95 1311	

CORE LABORATORIES

LABORATORY TESTS RESULTS
Report Date: 10/10/95

JOB NUMBER: 954302 PROJECT: ENRON-WTI/4230 CUSTOMER: Daniel B. Stevens & Associates ATTN: Bob Marley

Customer Sample ID.: MW-7
Sample Date.....: 09/12/95
Sample Time.....: 12:05
Sample Matrix.....: Water

Laboratory Sample ID.: 954302-2
Date Received.....: 09/18/95
Time Received.....: 10:00

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS OF MEASURE	TEST METHOD	DATE ANALYZED	TECHNICIAN
1,1,1-Trichloroethane		ND	5	ug/L		09/20/95 1311	
1,1,2-Trichloroethane		ND	5	ug/L		09/20/95 1311	
Trichloroethene		13	5	ug/L		09/20/95 1311	
Vinyl acetate		ND	50	ug/L		09/20/95 1311	
Vinyl chloride		ND	10	ug/L		09/20/95 1311	
Xylenes (total)		ND	5	ug/L		09/20/95 1311	

CORE LABORATORIES

LABORATORY TESTS RESULTS
Report Date: 10/10/95

JOB NUMBER: 954302 PROJECT: ENRON-WTI/4230 CUSTOMER: Daniel B. Stevens & Associates ATTN: Bob Marley

Customer Sample ID.: MW-6
Sample Date.....: 09/12/95
Sample Time.....: 14:00
Sample Matrix.....: Water

Laboratory Sample ID.: 954302-3
Date Received.....: 09/18/95
Time Received.....: 10:00

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS OF MEASURE	TEST METHOD	DATE ANALYZED	TECHNICIAN
Volatile Organics					SW-846 8240		bfr
Acetone		ND	100	ug/L		09/20/95 1343	
Benzene		2	1	ug/L		09/20/95 1343	
Bromodichloromethane		ND	5	ug/L		09/20/95 1343	
Bromoform		ND	5	ug/L		09/20/95 1343	
Bromomethane		ND	10	ug/L		09/20/95 1343	
Methyl ethyl ketone (2-Butanone)		ND	100	ug/L		09/20/95 1343	
Carbon disulfide		ND	5	ug/L		09/20/95 1343	
Carbon tetrachloride		ND	5	ug/L		09/20/95 1343	
Chlorobenzene		ND	5	ug/L		09/20/95 1343	
Chloroethane		ND	10	ug/L		09/20/95 1343	
2-Chloroethylvinyl ether		ND	10	ug/L		09/20/95 1343	
Chloroform		ND	5	ug/L		09/20/95 1343	
Chloromethane		ND	10	ug/L		09/20/95 1343	
Dibromochloromethane		ND	5	ug/L		09/20/95 1343	
1,1-Dichloroethane		17	5	ug/L		09/20/95 1343	
1,2-Dichloroethane		ND	5	ug/L		09/20/95 1343	
1,1-Dichloroethene		ND	5	ug/L		09/20/95 1343	
trans-1,2-Dichloroethene		ND	5	ug/L		09/20/95 1343	
1,2-Dichloropropane		ND	5	ug/L		09/20/95 1343	
cis-1,3-Dichloropropene		ND	5	ug/L		09/20/95 1343	
trans-1,3-Dichloropropene		ND	5	ug/L		09/20/95 1343	
Ethylbenzene		ND	5	ug/L		09/20/95 1343	
2-Hexanone		ND	50	ug/L		09/20/95 1343	
Methylene chloride		ND	5	ug/L		09/20/95 1343	
4-Methyl-2-pentanone (MIBK)		ND	50	ug/L		09/20/95 1343	
Styrene		ND	5	ug/L		09/20/95 1343	
1,1,2,2-Tetrachloroethane		ND	5	ug/L		09/20/95 1343	
Tetrachloroethene		ND	5	ug/L		09/20/95 1343	
Toluene		ND	5	ug/L		09/20/95 1343	

CORE LABORATORIES

LABORATORY TESTS RESULTS
Report Date: 10/10/95

JOB NUMBER: 954302 PROJECT: ENRON-WTI/4230 CUSTOMER: Daniel B. Stevens & Associates ATTN: Bob Marley

Customer Sample ID.: MW-6
Sample Date.....: 09/12/95
Sample Time.....: 14:00
Sample Matrix.....: Water

Laboratory Sample ID.: 954302-3
Date Received.....: 09/18/95
Time Received.....: 10:00

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS OF MEASURE	TEST METHOD	DATE ANALYZED	TECHNICIAN
1,1,1-Trichloroethane		ND	5	ug/L		09/20/95 1343	
1,1,2-Trichloroethane		ND	5	ug/L		09/20/95 1343	
Trichloroethene		21	5	ug/L		09/20/95 1343	
Vinyl acetate		ND	50	ug/L		09/20/95 1343	
Vinyl chloride		ND	10	ug/L		09/20/95 1343	
Xylenes (total)		ND	5	ug/L		09/20/95 1343	

CORE LABORATORIES

LABORATORY TESTS RESULTS
Report Date: 10/10/95

JOB NUMBER: 954302 PROJECT: ENRON-WTI/4230 CUSTOMER: Daniel B. Stevens & Associates ATTN: Bob Marley

Customer Sample ID.: MW-5
Sample Date.....: 09/12/95
Sample Time.....: 17:30
Sample Matrix.....: Water

Laboratory Sample ID.: 954302-4
Date Received.....: 09/18/95
Time Received.....: 10:00

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS OF MEASURE	TEST METHOD	DATE ANALYZED	TECHNICIAN
Volatile Organics					SW-846 8240		bfr
Acetone		1000	500	ug/L		09/20/95 1913	
Benzene		12	1	ug/L		09/20/95 1416	
Bromodichloromethane		ND	5	ug/L		09/20/95 1416	
Bromoform		ND	5	ug/L		09/20/95 1416	
Bromomethane		ND	10	ug/L		09/20/95 1416	
Methyl ethyl ketone (2-Butanone)		200	100	ug/L		09/20/95 1416	
Carbon disulfide		ND	5	ug/L		09/20/95 1416	
Carbon tetrachloride		ND	5	ug/L		09/20/95 1416	
Chlorobenzene		ND	5	ug/L		09/20/95 1416	
Chloroethane		100	10	ug/L		09/20/95 1416	
2-Chloroethylvinyl ether		ND	10	ug/L		09/20/95 1416	
Chloroform		ND	5	ug/L		09/20/95 1416	
Chloromethane		ND	10	ug/L		09/20/95 1416	
Dibromochloromethane		ND	5	ug/L		09/20/95 1416	
1,1-Dichloroethane		200	20	ug/L		09/20/95 1913	
1,2-Dichloroethane		7	5	ug/L		09/20/95 1416	
1,1-Dichloroethene		ND	5	ug/L		09/20/95 1416	
trans-1,2-Dichloroethene		ND	5	ug/L		09/20/95 1416	
1,2-Dichloropropane		ND	5	ug/L		09/20/95 1416	
cis-1,3-Dichloropropene		ND	5	ug/L		09/20/95 1416	
trans-1,3-Dichloropropene		ND	5	ug/L		09/20/95 1416	
Ethylbenzene		ND	5	ug/L		09/20/95 1416	
2-Hexanone		ND	50	ug/L		09/20/95 1416	
Methylene chloride		190	5	ug/L		09/20/95 1416	
4-Methyl-2-pentanone (MIBK)		520	50	ug/L		09/20/95 1416	
Styrene		ND	5	ug/L		09/20/95 1416	
1,1,2,2-Tetrachloroethane		ND	5	ug/L		09/20/95 1416	
Tetrachloroethene		ND	5	ug/L		09/20/95 1416	
Toluene		24	5	ug/L		09/20/95 1416	

CORE LABORATORIES

LABORATORY TESTS RESULTS
Report Date: 10/10/95

JOB NUMBER: 954302 PROJECT: ENRON-WTI/4230 CUSTOMER: Daniel B. Stevens & Associates ATTN: Bob Marley

Customer Sample ID.: MW-5
Sample Date.....: 09/12/95
Sample Time.....: 17:30
Sample Matrix.....: Water

Laboratory Sample ID.: 954302-4
Date Received.....: 09/18/95
Time Received.....: 10:00

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS OF MEASURE	TEST METHOD	DATE ANALYZED	TECHNICIAN
1,1,1-Trichloroethane		ND	5	ug/L		09/20/95 1416	
1,1,2-Trichloroethane		ND	5	ug/L		09/20/95 1416	
Trichloroethene		67	5	ug/L		09/20/95 1416	
Vinyl acetate		ND	50	ug/L		09/20/95 1416	
Vinyl chloride		ND	10	ug/L		09/20/95 1416	
Xylenes (total)		24	5	ug/L		09/20/95 1416	

CORE LABORATORIES

LABORATORY TESTS RESULTS
Report Date: 10/10/95

JOB NUMBER: 954302 PROJECT: ENRON-WTI/4230 CUSTOMER: Daniel B. Stevens & Associates ATTN: Bob Marley

Customer Sample ID.: MW-14
Sample Date.....: 09/13/95
Sample Time.....: 13:30
Sample Matrix.....: Water

Laboratory Sample ID.: 954302-5
Date Received.....: 09/18/95
Time Received.....: 10:00

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS OF MEASURE	TEST METHOD	DATE ANALYZED	TECHNICIAN
Alkalinity, Total as CaCO3	Unfiltered	444	5	mg/L CaCO3	EPA 310.1	09/20/95 1300	kds
Chloride	Unfiltered	515	2	mg/L	EPA 325.2	09/20/95 1400	sgm
Nitrate + Nitrite as N	Unfiltered	1.91	0.05	mg/L	EPA 353.2	09/19/95 1330	sgm
Solids, Total Dissolved (TDS)	Filtered	2360	10	mg/L	EPA 160.1	09/19/95 1250	kds
Sulfate (SO4)	Unfiltered	700	100	mg/L	EPA 375.2	09/28/95 1433	sgm
Acid Digestion, Total Metals	Total	Complete		mL	SW-846 3010	09/22/95 0140	lmt
Mercury (Hg)	Total	<0.0002	0.0002	mg/L	SW-846 7470	09/26/95 1004	lmt
Arsenic (As)	Total	<0.05	0.05	mg/L	SW-846 6010	10/04/95 2003	gef
Barium (Ba)	Total	0.14	0.01	mg/L	SW-846 6010	10/04/95 2003	gef
Cadmium (Cd)	Total	<0.005	0.005	mg/L	SW-846 6010	10/04/95 2003	gef
Calcium (Ca)	Total	276	1	mg/L	SW-846 6010	10/04/95 2017	gef
Chromium (Cr)	Total	<0.01	0.01	mg/L	SW-846 6010	10/04/95 2003	gef
Lead (Pb)	Total	<0.05	0.05	mg/L	SW-846 6010	10/04/95 2003	gef
Magnesium (Mg)	Total	147	0.1	mg/L	SW-846 6010	10/04/95 2003	gef
Potassium (K)	Total	7.0	0.1	mg/L	SW-846 7610	10/06/95 1233	gef
Selenium (Se)	Total	<0.1	0.1	mg/L	SW-846 6010	10/04/95 2003	gef

CORE LABORATORIES

LABORATORY TESTS RESULTS
Report Date: 10/10/95

JOB NUMBER: 954302 PROJECT: ENRON-WTI/4230 CUSTOMER: Daniel B. Stevens & Associates ATTN: Bob Marley

Customer Sample ID.: MW-14
Sample Date.....: 09/13/95
Sample Time.....: 13:30
Sample Matrix.....: Water

Laboratory Sample ID.: 954302-5
Date Received.....: 09/18/95
Time Received.....: 10:00

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS OF MEASURE	TEST METHOD	DATE ANALYZED	TECHNICIAN
Silver (Ag)	Total	<0.01	0.01	mg/L	SW-846 6010	10/04/95 2003	gef
Sodium (Na)	Total	170	10	mg/L	SW-846 6010	10/04/95 2017	gef
Volatile Organics					SW-846 8240		bfr
Acetone		ND	100	ug/L		09/20/95 1448	
Benzene		1	1	ug/L		09/20/95 1448	
Bromodichloromethane		ND	5	ug/L		09/20/95 1448	
Bromoform		ND	5	ug/L		09/20/95 1448	
Bromomethane		ND	10	ug/L		09/20/95 1448	
Methyl ethyl ketone (2-Butanone)		ND	100	ug/L		09/20/95 1448	
Carbon disulfide		ND	5	ug/L		09/20/95 1448	
Carbon tetrachloride		ND	5	ug/L		09/20/95 1448	
Chlorobenzene		ND	5	ug/L		09/20/95 1448	
Chloroethane		ND	10	ug/L		09/20/95 1448	
2-Chloroethylvinyl ether		ND	10	ug/L		09/20/95 1448	
Chloroform		ND	5	ug/L		09/20/95 1448	
Chloromethane		ND	10	ug/L		09/20/95 1448	
Dibromochloromethane		ND	5	ug/L		09/20/95 1448	
1,1-Dichloroethane		24	5	ug/L		09/20/95 1448	
1,2-Dichloroethane		ND	5	ug/L		09/20/95 1448	
1,1-Dichloroethene		ND	5	ug/L		09/20/95 1448	
trans-1,2-Dichloroethene		ND	5	ug/L		09/20/95 1448	
1,2-Dichloropropane		ND	5	ug/L		09/20/95 1448	
cis-1,3-Dichloropropene		ND	5	ug/L		09/20/95 1448	
trans-1,3-Dichloropropene		ND	5	ug/L		09/20/95 1448	
Ethylbenzene		ND	5	ug/L		09/20/95 1448	
2-Hexanone		ND	50	ug/L		09/20/95 1448	
Methylene chloride		ND	5	ug/L		09/20/95 1448	
4-Methyl-2-pentanone (MIBK)		ND	50	ug/L		09/20/95 1448	

CORE LABORATORIES

LABORATORY TESTS RESULTS
Report Date: 10/10/95

JOB NUMBER: 954302 PROJECT: ENRON-WTI/4230 CUSTOMER: Daniel B. Stevens & Associates ATTN: Bob Marley

Customer Sample ID.: MW-14
Sample Date.....: 09/13/95
Sample Time.....: 13:30
Sample Matrix.....: Water

Laboratory Sample ID.: 954302-5
Date Received.....: 09/18/95
Time Received.....: 10:00

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS OF MEASURE	TEST METHOD	DATE ANALYZED	TECHNICIAN
Styrene		ND	5	ug/L		09/20/95 1448	
1,1,2,2-Tetrachloroethane		ND	5	ug/L		09/20/95 1448	
Tetrachloroethene		ND	5	ug/L		09/20/95 1448	
Toluene		ND	5	ug/L		09/20/95 1448	
1,1,1-Trichloroethane		ND	5	ug/L		09/20/95 1448	
1,1,2-Trichloroethane		ND	5	ug/L		09/20/95 1448	
Trichloroethene		11	5	ug/L		09/20/95 1448	
Vinyl acetate		ND	50	ug/L		09/20/95 1448	
Vinyl chloride		ND	10	ug/L		09/20/95 1448	
Xylenes (total)		ND	5	ug/L		09/20/95 1448	

CORE LABORATORIES

LABORATORY TESTS RESULTS
Report Date: 10/10/95

JOB NUMBER: 954302 PROJECT: ENRON-WTI/4230 CUSTOMER: Daniel B. Stevens & Associates ATTN: Bob Marley

Customer Sample ID.: MW-8
Sample Date.....: 09/13/95
Sample Time.....: 13:05
Sample Matrix.....: Water

Laboratory Sample ID.: 954302-6
Date Received.....: 09/18/95
Time Received.....: 10:00

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS OF MEASURE	TEST METHOD	DATE ANALYZED	TECHNICIAN
Volatile Organics					SW-846 8240		bfr
Acetone		ND	100	ug/L		09/20/95 1520	
Benzene		18	1	ug/L		09/20/95 1520	
Bromodichloromethane		ND	5	ug/L		09/20/95 1520	
Bromoform		ND	5	ug/L		09/20/95 1520	
Bromomethane		ND	10	ug/L		09/20/95 1520	
Methyl ethyl ketone (2-Butanone)		ND	100	ug/L		09/20/95 1520	
Carbon disulfide		ND	5	ug/L		09/20/95 1520	
Carbon tetrachloride		ND	5	ug/L		09/20/95 1520	
Chlorobenzene		ND	5	ug/L		09/20/95 1520	
Chloroethane		ND	10	ug/L		09/20/95 1520	
2-Chloroethylvinyl ether		ND	10	ug/L		09/20/95 1520	
Chloroform		ND	5	ug/L		09/20/95 1520	
Chloromethane		ND	10	ug/L		09/20/95 1520	
Dibromochloromethane		ND	5	ug/L		09/20/95 1520	
1,1-Dichloroethane		92	5	ug/L		09/20/95 1520	
1,2-Dichloroethane		ND	5	ug/L		09/20/95 1520	
1,1-Dichloroethene		ND	5	ug/L		09/20/95 1520	
trans-1,2-Dichloroethene		ND	5	ug/L		09/20/95 1520	
1,2-Dichloropropane		ND	5	ug/L		09/20/95 1520	
cis-1,3-Dichloropropene		ND	5	ug/L		09/20/95 1520	
trans-1,3-Dichloropropene		ND	5	ug/L		09/20/95 1520	
Ethylbenzene		ND	5	ug/L		09/20/95 1520	
2-Hexanone		ND	50	ug/L		09/20/95 1520	
Methylene chloride		ND	5	ug/L		09/20/95 1520	
4-Methyl-2-pentanone (MIBK)		ND	50	ug/L		09/20/95 1520	
Styrene		ND	5	ug/L		09/20/95 1520	
1,1,2,2-Tetrachloroethane		ND	5	ug/L		09/20/95 1520	
Tetrachloroethene		ND	5	ug/L		09/20/95 1520	
Toluene		ND	5	ug/L		09/20/95 1520	

CORE LABORATORIES

L A B O R A T O R Y T E S T S R E S U L T S
Report Date: 10/10/95

JOB NUMBER: 954302 PROJECT: ENRON-WTI/4230 CUSTOMER: Daniel B. Stevens & Associates ATTN: Bob Marley

Customer Sample ID.: MW-8
Sample Date.....: 09/13/95
Sample Time.....: 13:05
Sample Matrix.....: Water

Laboratory Sample ID.: 954302-6
Date Received.....: 09/18/95
Time Received.....: 10:00

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS OF MEASURE	TEST METHOD	DATE ANALYZED	TECHNICIAN
1,1,1-Trichloroethane		ND	5	ug/L		09/20/95 1520	
1,1,2-Trichloroethane		ND	5	ug/L		09/20/95 1520	
Trichloroethene		45	5	ug/L		09/20/95 1520	
Vinyl acetate		ND	50	ug/L		09/20/95 1520	
Vinyl chloride		ND	10	ug/L		09/20/95 1520	
Xylenes (total)		ND	5	ug/L		09/20/95 1520	

CORE LABORATORIES

LABORATORY TESTS RESULTS

Report Date: 10/10/95

JOB NUMBER: 954302 PROJECT: ENRON-WTI/4230 CUSTOMER: Daniel B. Stevens & Associates ATTN: Bob Marley

Customer Sample ID.: MW-15
Sample Date.....: 09/14/95
Sample Time.....: 13:45
Sample Matrix.....: Water

Laboratory Sample ID.: 954302-7
Date Received.....: 09/18/95
Time Received.....: 10:00

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS OF MEASURE	TEST METHOD	DATE ANALYZED	TECHNICIAN
Alkalinity, Total as CaCO3	Unfiltered	286	5	mg/L CaCO3	EPA 310.1	09/20/95 1300	kds
Chloride	Unfiltered	442	2	mg/L	EPA 325.2	09/20/95 1400	sgm
Nitrate + Nitrite as N	Unfiltered	13.2	0.5	mg/L	EPA 353.2	09/19/95 1330	sgm
Solids, Total Dissolved (TDS)	Filtered	2500	10	mg/L	EPA 160.1	09/19/95 1250	kds
Sulfate (SO4)	Unfiltered	900	100	mg/L	EPA 375.2	09/28/95 1449	sgm
Acid Digestion, Total Metals	Total	Complete		mL	SW-846 3010	09/22/95 0140	lmt
Mercury (Hg)	Total	<0.0002	0.0002	mg/L	SW-846 7470	09/26/95 1008	lmt
Arsenic (As)	Total	<0.05	0.05	mg/L	SW-846 6010	10/04/95 2024	gef
Barium (Ba)	Total	0.02	0.01	mg/L	SW-846 6010	10/04/95 2024	gef
Cadmium (Cd)	Total	<0.005	0.005	mg/L	SW-846 6010	10/04/95 2024	gef
Calcium (Ca)	Total	291	0.1	mg/L	SW-846 6010	10/04/95 2024	gef
Chromium (Cr)	Total	<0.01	0.01	mg/L	SW-846 6010	10/04/95 2024	gef
Lead (Pb)	Total	<0.05	0.05	mg/L	SW-846 6010	10/04/95 2024	gef
Magnesium (Mg)	Total	137	0.1	mg/L	SW-846 6010	10/04/95 2024	gef
Potassium (K)	Total	6.5	0.1	mg/L	SW-846 7610	10/06/95 1235	gef
Selenium (Se)	Total	<0.1	0.1	mg/L	SW-846 6010	10/04/95 2024	gef

CORE LABORATORIES

LABORATORY TESTS RESULTS
Report Date: 10/10/95

JOB NUMBER: 954302 PROJECT: ENRON-WTI/4230 CUSTOMER: Daniel B. Stevens & Associates ATTN: Bob Marley

Customer Sample ID.: MW-15
Sample Date.....: 09/14/95
Sample Time.....: 13:45
Sample Matrix.....: Water

Laboratory Sample ID.: 954302-7
Date Received.....: 09/18/95
Time Received.....: 10:00

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS OF MEASURE	TEST METHOD	DATE ANALYZED	TECHNICIAN
Silver (Ag)	Total	<0.01	0.01	mg/L	SW-846 6010	10/04/95 2024	gef
Sodium (Na)	Total	206	5	mg/L	SW-846 6010	10/04/95 2027	gef
Volatile Organics					SW-846 8240		bfr
Acetone		ND	100	ug/L		09/20/95 1552	
Benzene		ND	1	ug/L		09/20/95 1552	
Bromodichloromethane		ND	5	ug/L		09/20/95 1552	
Bromoform		ND	5	ug/L		09/20/95 1552	
Bromomethane		ND	10	ug/L		09/20/95 1552	
Methyl ethyl ketone (2-Butanone)		ND	100	ug/L		09/20/95 1552	
Carbon disulfide		ND	5	ug/L		09/20/95 1552	
Carbon tetrachloride		ND	5	ug/L		09/20/95 1552	
Chlorobenzene		ND	5	ug/L		09/20/95 1552	
Chloroethane		ND	10	ug/L		09/20/95 1552	
2-Chloroethylvinyl ether		ND	10	ug/L		09/20/95 1552	
Chloroform		ND	5	ug/L		09/20/95 1552	
Chloromethane		ND	10	ug/L		09/20/95 1552	
Dibromochloromethane		ND	5	ug/L		09/20/95 1552	
1,1-Dichloroethane		ND	5	ug/L		09/20/95 1552	
1,2-Dichloroethane		ND	5	ug/L		09/20/95 1552	
1,1-Dichloroethene		5	5	ug/L		09/20/95 1552	
trans-1,2-Dichloroethene		ND	5	ug/L		09/20/95 1552	
1,2-Dichloropropane		ND	5	ug/L		09/20/95 1552	
cis-1,3-Dichloropropene		ND	5	ug/L		09/20/95 1552	
trans-1,3-Dichloropropene		ND	5	ug/L		09/20/95 1552	
Ethylbenzene		ND	5	ug/L		09/20/95 1552	
2-Hexanone		ND	50	ug/L		09/20/95 1552	
Methylene chloride		ND	5	ug/L		09/20/95 1552	
4-Methyl-2-pentanone (MIBK)		ND	50	ug/L		09/20/95 1552	

CORE LABORATORIES

LABORATORY TESTS RESULTS
Report Date: 10/10/95

JOB NUMBER: 954302 PROJECT: ENRON-WTI/4230 CUSTOMER: Daniel B. Stevens & Associates ATTN: Bob Marley

Customer Sample ID.: MW-15
Sample Date.....: 09/14/95
Sample Time.....: 13:45
Sample Matrix.....: Water

Laboratory Sample ID.: 954302-7
Date Received.....: 09/18/95
Time Received.....: 10:00

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS OF MEASURE	TEST METHOD	DATE ANALYZED	TECHNICIAN
Styrene		ND	5	ug/L		09/20/95 1552	
1,1,2,2-Tetrachloroethane		ND	5	ug/L		09/20/95 1552	
Tetrachloroethene		ND	5	ug/L		09/20/95 1552	
Toluene		ND	5	ug/L		09/20/95 1552	
1,1,1-Trichloroethane		ND	5	ug/L		09/20/95 1552	
1,1,2-Trichloroethane		ND	5	ug/L		09/20/95 1552	
Trichloroethene		ND	5	ug/L		09/20/95 1552	
Vinyl acetate		ND	50	ug/L		09/20/95 1552	
Vinyl chloride		ND	10	ug/L		09/20/95 1552	
Xylenes (total)		ND	5	ug/L		09/20/95 1552	

CORE LABORATORIES

LABORATORY TESTS RESULTS
Report Date: 10/10/95

JOB NUMBER: 954302 PROJECT: ENRON-WTI/4230 CUSTOMER: Daniel B. Stevens & Associates ATTN: Bob Marley

Customer Sample ID.: MW-16
Sample Date.....: 09/14/95
Sample Time.....: 16:15
Sample Matrix.....: Water

Laboratory Sample ID.: 954302-8
Date Received.....: 09/18/95
Time Received.....: 10:00

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS OF MEASURE	TEST METHOD	DATE ANALYZED	TECHNICIAN
Alkalinity, Total as CaCO3	Unfiltered	410	5	mg/L CaCO3	EPA 310.1	09/20/95 1300	kds
Chloride	Unfiltered	624	3	mg/L	EPA 325.2	09/20/95 1400	sgm
Nitrate + Nitrite as N	Unfiltered	2.62	0.05	mg/L	EPA 353.2	09/19/95 1330	sgm
Solids, Total Dissolved (TDS)	Filtered	2570	10	mg/L	EPA 160.1	09/19/95 1250	kds
Sulfate (SO4)	Unfiltered	850	50	mg/L	EPA 375.2	09/28/95 1505	sgm
Acid Digestion, Total Metals	Total	Complete		mL	SW-846 3010	09/22/95 0140	lmt
Mercury (Hg)	Total	0.0003	0.0002	mg/L	SW-846 7470	09/26/95 1013	lmt
Arsenic (As)	Total	<0.05	0.05	mg/L	SW-846 6010	10/04/95 2030	gef
Barium (Ba)	Total	0.22	0.01	mg/L	SW-846 6010	10/04/95 2030	gef
Cadmium (Cd)	Total	<0.005	0.005	mg/L	SW-846 6010	10/04/95 2030	gef
Calcium (Ca)	Total	320	0.1	mg/L	SW-846 6010	10/04/95 2030	gef
Chromium (Cr)	Total	0.02	0.01	mg/L	SW-846 6010	10/04/95 2030	gef
Lead (Pb)	Total	<0.05	0.05	mg/L	SW-846 6010	10/04/95 2030	gef
Magnesium (Mg)	Total	188	0.1	mg/L	SW-846 6010	10/04/95 2030	gef
Potassium (K)	Total	9.7	0.1	mg/L	SW-846 7610	10/06/95 1237	gef
Selenium (Se)	Total	<0.1	0.1	mg/L	SW-846 6010	10/04/95 2030	gef

CORE LAB

CORE LABORATORIES

LABORATORY TESTS RESULTS

Report Date: 10/10/95

JOB NUMBER: 954302 PROJECT: ENRON-WTI/4230 CUSTOMER: Daniel B. Stevens & Associates ATTN: Bob Marley

Customer Sample ID.: MW-16
Sample Date.....: 09/14/95
Sample Time.....: 16:15
Sample Matrix.....: Water

Laboratory Sample ID.: 954302-8
Date Received.....: 09/18/95
Time Received.....: 10:00

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS OF MEASURE	TEST METHOD	DATE ANALYZED	TECHNICIAN
Silver (Ag)	Total	<0.01	0.01	mg/L	SW-846 6010	10/04/95 2030	gef
Sodium (Na)	Total	211	5	mg/L	SW-846 6010	10/04/95 2032	gef
Volatile Organics					SW-846 8240		bfr
Acetone		ND	100	ug/L		09/20/95 1624	
Benzene		ND	1	ug/L		09/20/95 1624	
Bromodichloromethane		ND	5	ug/L		09/20/95 1624	
Bromoform		ND	5	ug/L		09/20/95 1624	
Bromomethane		ND	10	ug/L		09/20/95 1624	
Methyl ethyl ketone (2-Butanone)		ND	100	ug/L		09/20/95 1624	
Carbon disulfide		ND	5	ug/L		09/20/95 1624	
Carbon tetrachloride		ND	5	ug/L		09/20/95 1624	
Chlorobenzene		ND	5	ug/L		09/20/95 1624	
Chloroethane		ND	10	ug/L		09/20/95 1624	
2-Chloroethylvinyl ether		ND	10	ug/L		09/20/95 1624	
Chloroform		ND	5	ug/L		09/20/95 1624	
Chloromethane		ND	10	ug/L		09/20/95 1624	
Dibromochloromethane		ND	5	ug/L		09/20/95 1624	
1,1-Dichloroethane		6	5	ug/L		09/20/95 1624	
1,2-Dichloroethane		ND	5	ug/L		09/20/95 1624	
1,1-Dichloroethene		ND	5	ug/L		09/20/95 1624	
trans-1,2-Dichloroethene		ND	5	ug/L		09/20/95 1624	
1,2-Dichloropropane		ND	5	ug/L		09/20/95 1624	
cis-1,3-Dichloropropene		ND	5	ug/L		09/20/95 1624	
trans-1,3-Dichloropropene		ND	5	ug/L		09/20/95 1624	
Ethylbenzene		ND	5	ug/L		09/20/95 1624	
2-Hexanone		ND	50	ug/L		09/20/95 1624	
Methylene chloride		ND	5	ug/L		09/20/95 1624	
4-Methyl-2-pentanone (MIBK)		ND	50	ug/L		09/20/95 1624	

CORE LABORATORIES

LABORATORY TESTS RESULTS
Report Date: 10/10/95

JOB NUMBER: 954302 PROJECT: ENRON-WTI/4230 CUSTOMER: Daniel B. Stevens & Associates ATTN: Bob Marley

Customer Sample ID.: MW-16
Sample Date.....: 09/14/95
Sample Time.....: 16:15
Sample Matrix.....: Water

Laboratory Sample ID.: 954302-8
Date Received.....: 09/18/95
Time Received.....: 10:00

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS OF MEASURE	TEST METHOD	DATE ANALYZED	TECHNICIAN
Styrene		ND	5	ug/L		09/20/95 1624	
1,1,2,2-Tetrachloroethane		ND	5	ug/L		09/20/95 1624	
Tetrachloroethene		6	5	ug/L		09/20/95 1624	
Toluene		ND	5	ug/L		09/20/95 1624	
1,1,1-Trichloroethane		ND	5	ug/L		09/20/95 1624	
1,1,2-Trichloroethane		ND	5	ug/L		09/20/95 1624	
Trichloroethene		ND	5	ug/L		09/20/95 1624	
Vinyl acetate		ND	50	ug/L		09/20/95 1624	
Vinyl chloride		ND	10	ug/L		09/20/95 1624	
Xylenes (total)		ND	5	ug/L		09/20/95 1624	

CORE LABORATORIES

LABORATORY TESTS RESULTS
Report Date: 10/10/95

JOB NUMBER: 954302 PROJECT: ENRON-WTI/4230 CUSTOMER: Daniel B. Stevens & Associates ATTN: Bob Marley

Customer Sample ID.: MW-1
Sample Date.....: 09/14/95
Sample Time.....: 16:35
Sample Matrix.....: Water

Laboratory Sample ID.: 954302-9
Date Received.....: 09/18/95
Time Received.....: 10:00

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS OF MEASURE	TEST METHOD	DATE ANALYZED	TECHNICIAN
Volatile Organics					SW-846 8240		bfr
Acetone		2000	1000	ug/L		09/20/95 1945	
Benzene		13	1	ug/L		09/20/95 1656	
Bromodichloromethane		ND	5	ug/L		09/20/95 1656	
Bromoform		ND	5	ug/L		09/20/95 1656	
Bromomethane		ND	10	ug/L		09/20/95 1656	
Methyl ethyl ketone (2-Butanone)		400	100	ug/L		09/20/95 1656	
Carbon disulfide		ND	5	ug/L		09/20/95 1656	
Carbon tetrachloride		ND	5	ug/L		09/20/95 1656	
Chlorobenzene		ND	5	ug/L		09/20/95 1656	
Chloroethane		ND	10	ug/L		09/20/95 1656	
2-Chloroethylvinyl ether		ND	10	ug/L		09/20/95 1656	
Chloroform		ND	5	ug/L		09/20/95 1656	
Chloromethane		ND	10	ug/L		09/20/95 1656	
Dibromochloromethane		ND	5	ug/L		09/20/95 1656	
1,1-Dichloroethane		730	50	ug/L		09/20/95 1945	
1,2-Dichloroethane		13	5	ug/L		09/20/95 1656	
1,1-Dichloroethene		9	5	ug/L		09/20/95 1656	
trans-1,2-Dichloroethene		ND	5	ug/L		09/20/95 1656	
1,2-Dichloropropane		ND	5	ug/L		09/20/95 1656	
cis-1,3-Dichloropropene		ND	5	ug/L		09/20/95 1656	
trans-1,3-Dichloropropene		ND	5	ug/L		09/20/95 1656	
Ethylbenzene		8	5	ug/L		09/20/95 1656	
2-Hexanone		ND	50	ug/L		09/20/95 1656	
Methylene chloride		170	5	ug/L		09/20/95 1656	
4-Methyl-2-pentanone (MIBK)		1800	500	ug/L		09/20/95 1945	
Styrene		ND	5	ug/L		09/20/95 1656	
1,1,2,2-Tetrachloroethane		ND	5	ug/L		09/20/95 1656	
Tetrachloroethene		19	5	ug/L		09/20/95 1656	
Toluene		90	5	ug/L		09/20/95 1656	

CORE LABORATORIES

LABORATORY TESTS RESULTS
Report Date: 10/10/95

JOB NUMBER: 954302 PROJECT: ENRON-WTI/4230 CUSTOMER: Daniel B. Stevens & Associates ATTN: Bob Marley

Customer Sample ID.: MW-1
Sample Date.....: 09/14/95
Sample Time.....: 16:35
Sample Matrix.....: Water

Laboratory Sample ID.: 954302-9
Date Received.....: 09/18/95
Time Received.....: 10:00

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS OF MEASURE	TEST METHOD	DATE ANALYZED	TECHNICIAN
1,1,1-Trichloroethane		57	5	ug/L		09/20/95 1656	
1,1,2-Trichloroethane		ND	5	ug/L		09/20/95 1656	
Trichloroethene		24	5	ug/L		09/20/95 1656	
Vinyl acetate		ND		ug/L		09/20/95 1656	
Vinyl chloride		ND	10	ug/L		09/20/95 1656	
Xylenes (total)		110	5	ug/L		09/20/95 1656	

CORE LABORATORIES

LABORATORY TESTS RESULTS
Report Date: 10/10/95

JOB NUMBER: 954302 PROJECT: ENRON-WTI/4230 CUSTOMER: Daniel B. Stevens & Associates ATTN: Bob Marley

Customer Sample ID.: MW-99
Sample Date.....: 09/14/95
Sample Time.....: 00:00
Sample Matrix.....: Water

Laboratory Sample ID.: 954302-10
Date Received.....: 09/18/95
Time Received.....: 10:00

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS OF MEASURE	TEST METHOD	DATE ANALYZED	TECHNICIAN
Volatile Organics					SW-846 8240		bfr
Acetone		2000	1000	ug/L		09/20/95 2017	
Benzene		12	1	ug/L		09/20/95 1728	
Bromodichloromethane		ND	5	ug/L		09/20/95 1728	
Bromoform		ND	5	ug/L		09/20/95 1728	
Bromomethane		ND	10	ug/L		09/20/95 1728	
Methyl ethyl ketone (2-Butanone)		400	100	ug/L		09/20/95 1728	
Carbon disulfide		ND	5	ug/L		09/20/95 1728	
Carbon tetrachloride		ND	5	ug/L		09/20/95 1728	
Chlorobenzene		ND	5	ug/L		09/20/95 1728	
Chloroethane		ND	10	ug/L		09/20/95 1728	
2-Chloroethylvinyl ether		ND	10	ug/L		09/20/95 1728	
Chloroform		ND	5	ug/L		09/20/95 1728	
Chloromethane		ND	10	ug/L		09/20/95 1728	
Dibromochloromethane		ND	5	ug/L		09/20/95 1728	
1,1-Dichloroethane		640	50	ug/L		09/20/95 2017	
1,2-Dichloroethane		12	5	ug/L		09/20/95 1728	
1,1-Dichloroethene		9	5	ug/L		09/20/95 1728	
trans-1,2-Dichloroethene		ND	5	ug/L		09/20/95 1728	
1,2-Dichloropropane		ND	5	ug/L		09/20/95 1728	
cis-1,3-Dichloropropene		ND	5	ug/L		09/20/95 1728	
trans-1,3-Dichloropropene		ND	5	ug/L		09/20/95 1728	
Ethylbenzene		8	5	ug/L		09/20/95 1728	
2-Hexanone		ND	50	ug/L		09/20/95 1728	
Methylene chloride		160	5	ug/L		09/20/95 1728	
4-Methyl-2-pentanone (MIBK)		2000	500	ug/L		09/20/95 2017	
Styrene		ND	5	ug/L		09/20/95 1728	
1,1,2,2-Tetrachloroethane		ND	5	ug/L		09/20/95 1728	
Tetrachloroethene		19	5	ug/L		09/20/95 1728	
Toluene		87	5	ug/L		09/20/95 1728	

CORE LABORATORIES

LABORATORY TESTS RESULTS
Report Date: 10/10/95

JOB NUMBER: 954302 PROJECT: ENRON-WTI/4230 CUSTOMER: Daniel B. Stevens & Associates ATTN: Bob Marley

Customer Sample ID.: MW-99
Sample Date.....: 09/14/95
Sample Time.....: 00:00
Sample Matrix.....: Water

Laboratory Sample ID.: 954302-10
Date Received.....: 09/18/95
Time Received.....: 10:00

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS OF MEASURE	TEST METHOD	DATE ANALYZED	TECHNICIAN
1,1,1-Trichloroethane		57	5	ug/L		09/20/95 1728	
1,1,2-Trichloroethane		ND	5	ug/L		09/20/95 1728	
Trichloroethene		24	5	ug/L		09/20/95 1728	
Vinyl acetate		ND	50	ug/L		09/20/95 1728	
Vinyl chloride		ND	10	ug/L		09/20/95 1728	
Xylenes (total)		110	5	ug/L		09/20/95 1728	

CORE LAB

CORE LABORATORIES

LABORATORY TESTS RESULTS

Report Date: 10/10/95

JOB NUMBER: 954302 PROJECT: ENRON-WTI/4230 CUSTOMER: Daniel B. Stevens & Associates ATTN: Bob Marley

Customer Sample ID.: TRIP BLANK
Sample Date.....:
Sample Time.....:
Sample Matrix.....: Water

Laboratory Sample ID.: 954302-11
Date Received.....: 09/18/95
Time Received.....: 10:00

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS OF MEASURE	TEST METHOD	DATE ANALYZED	TECHNICIAN
Volatile Organics					SW-846 8240		bfr
Acetone		ND	100	ug/L		09/20/95 1208	
Benzene		ND	1	ug/L		09/20/95 1208	
Bromodichloromethane		ND	5	ug/L		09/20/95 1208	
Bromoform		ND	5	ug/L		09/20/95 1208	
Bromomethane		ND	10	ug/L		09/20/95 1208	
Methyl ethyl ketone (2-Butanone)		ND	100	ug/L		09/20/95 1208	
Carbon disulfide		ND	5	ug/L		09/20/95 1208	
Carbon tetrachloride		ND	5	ug/L		09/20/95 1208	
Chlorobenzene		ND	5	ug/L		09/20/95 1208	
Chloroethane		ND	10	ug/L		09/20/95 1208	
2-Chloroethylvinyl ether		ND	10	ug/L		09/20/95 1208	
Chloroform		ND	5	ug/L		09/20/95 1208	
Chloromethane		ND	10	ug/L		09/20/95 1208	
Dibromochloromethane		ND	5	ug/L		09/20/95 1208	
1,1-Dichloroethane		ND	5	ug/L		09/20/95 1208	
1,2-Dichloroethane		ND	5	ug/L		09/20/95 1208	
1,1-Dichloroethene		ND	5	ug/L		09/20/95 1208	
trans-1,2-Dichloroethene		ND	5	ug/L		09/20/95 1208	
1,2-Dichloropropane		ND	5	ug/L		09/20/95 1208	
cis-1,3-Dichloropropene		ND	5	ug/L		09/20/95 1208	
trans-1,3-Dichloropropene		ND	5	ug/L		09/20/95 1208	
Ethylbenzene		ND	5	ug/L		09/20/95 1208	
2-Hexanone		ND	50	ug/L		09/20/95 1208	
Methylene chloride		ND	5	ug/L		09/20/95 1208	
4-Methyl-2-pentanone (MIBK)		ND	50	ug/L		09/20/95 1208	
Styrene		ND	5	ug/L		09/20/95 1208	
1,1,2,2-Tetrachloroethane		ND	5	ug/L		09/20/95 1208	
Tetrachloroethene		ND	5	ug/L		09/20/95 1208	
Toluene		ND	5	ug/L		09/20/95 1208	

CORE LABORATORIES

LABORATORY TESTS RESULTS
Report Date: 10/10/95

JOB NUMBER: 954302 PROJECT: ENRON-WTI/4230 CUSTOMER: Daniel B. Stevens & Associates ATTN: Bob Marley

Customer Sample ID.: TRIP BLANK
Sample Date.....:
Sample Time.....:
Sample Matrix.....: Water

Laboratory Sample ID.: 954302-11
Date Received.....: 09/18/95
Time Received.....: 10:00

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS OF MEASURE	TEST METHOD	DATE ANALYZED	TECHNICIAN
1,1,1-Trichloroethane		ND	5	ug/L		09/20/95 1208	
1,1,2-Trichloroethane		ND	5	ug/L		09/20/95 1208	
Trichloroethene		ND	5	ug/L		09/20/95 1208	
Vinyl acetate		ND	50	ug/L		09/20/95 1208	
Vinyl chloride		ND	10	ug/L		09/20/95 1208	
Xylenes (total)		ND	5	ug/L		09/20/95 1208	

QUALITY CONTROL REPORT

Report Date: 10/10/95

Job Number....: 954302 Project....: ENRON-WTI/4230

Method Description.: Nitrogen, NO3 + NO2 (Auto Cd Red.)
Method Code.....: 353.2P
Batch Code.....: 2027

Status.....: RVWD
QC Code.....: STD
Units.....: mg/L

Calc Code.....:
Equipment Code..:
Import Code.....:

Analyst ...: sgm

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
ICL	Initial Calibration/Lab Control Sample	G941014A			100	09/19/95	1330

Test Description	Detection Limit	QC Value	Diluted Value	Orig. Value	Alt. Value	% REC
Nitrate + Nitrite as N	0.05	0.99	1.00000			99.0

QC Type	Description					Date	Time
ICB	Initial Calibration Blank					09/19/95	1330

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Nitrate + Nitrite as N	0.05	0			

QC Type	Description		Lab ID	MTX		Date	Time
MD	Method Duplicate		954305-1	Unfiltered		09/19/95	1330

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	RPD	ABS Diff.
Nitrate + Nitrite as N	0.05	1.16		1.14		2	

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
MS	Matrix Spike	G941108B	954305-1	Unfiltered	100	09/19/95	1330

Test Description	Detection Limit	QC Value	Diluted Value	Orig. Value	Alt. Value	% REC
Nitrate + Nitrite as N	0.05	2.21	1.00000	1.14		107.0

QC Type	Description	Reag. Code			Dilution Factor	Date	Time
CCV	Continuing Calibration Verification	G941108B			50	09/19/95	1330

Test Description	Detection Limit	QC Value	Diluted Value	Orig. Value	Alt. Value	% REC
Nitrate + Nitrite as N	0.05	2.05709	2.00000			102.9

CORE LABORATORIES

QUALITY CONTROL REPORT
Report Date: 10/10/95
Job Number....: 954302 Project....: ENRON-WTI/4230

Method Description.: Nitrogen, NO3 + NO2 (Auto Cd Red.)
Method Code.....: 353.2P
Batch Code.....: 2027
Status.....: RVWD
QC Code.....: STD
Units.....: mg/L
Calc Code.....:
Equipment Code..:
Import Code.....:
Analyst ...: sgm

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date Time
CCB	Continuing Calibration Blank					09/19/95 1330

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Nitrate + Nitrite as N	0.05	0			

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date Time
MD	Method Duplicate		954302-8	Unfiltered		09/19/95 1330

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	RPD	ABS Diff.
Nitrate + Nitrite as N	0.05	2.49		2.49		0	

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date Time
MS	Matrix Spike	G941108B	954302-8	Unfiltered	100	09/19/95 1330

Test Description	Detection Limit	QC Value	Diluted Value	Orig. Value	Alt. Value	% REC
Nitrate + Nitrite as N	0.05	3.42	1.00000	2.49		93.0

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date Time
CCV	Continuing Calibration Verification	G941108B			50	09/19/95 1330

Test Description	Detection Limit	QC Value	Diluted Value	Orig. Value	Alt. Value	% REC
Nitrate + Nitrite as N	0.05	2.06371	2.00000			103.2

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date Time
CCB	Continuing Calibration Blank					09/19/95 1330

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Nitrate + Nitrite as N	0.05	0			

CORE LAB

CORE LABORATORIES

QUALITY CONTROL REPORT

Report Date: 10/10/95

Job Number....: 954302 Project....: ENRON-WTI/4230

Method Description.: Solids, Total Dissolved (TDS) Status.....: RVWD Calc Code.....: TDS Analyst ...: kds
Method Code.....: 160.1 QC Code.....: STD Equipment Code..:
Batch Code.....: 2083 Units.....: mg/L Import Code.....:

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
MB	Method Blank					09/19/95	1250

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Solids, Total Dissolved (TDS)	10	0			

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
LCS	Laboratory Control Sample	G950427A				09/19/95	1250

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Solids, Total Dissolved (TDS)	10	506	500			101.2

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
MD	Method Duplicate		954304-2	Filtered		09/19/95	1250

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	RPD	ABS Diff.
Solids, Total Dissolved (TDS)	10	2620		2650		1	

CORE LABORATORIES

QUALITY CONTROL REPORT

Report Date: 10/10/95

Job Number....: 954302 Project....: ENRON-WTI/4230

Method Description.: Chloride (Colorimetric, AA II)
Method Code.....: 325.2
Batch Code.....: 2090

Status.....: RVWD
QC Code.....: STD
Units.....: mg/L

Calc Code.....:
Equipment Code..:
Import Code.....:

Analyst ...: sgm

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
ICL	Initial Calibration/Lab Control Sample	G950719F				09/20/95	1400

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Chloride	0.5	51.6	50.0			103.2

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
ICB	Initial Calibration Blank					09/20/95	1400

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Chloride	0.5	0.0			

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
MD	Method Duplicate		954280-1	Filtered		09/20/95	1400

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	RPD	ABS Diff.
Chloride	0.5	35.8		36.8		3	

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
MS	Matrix Spike	G950503A	954280-1	Filtered	20	09/20/95	1400

Test Description	Detection Limit	QC Value	Diluted Value	Orig. Value	Alt. Value	% REC
Chloride	0.5	83.4	50.00000	36.8		93.2

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
LCS	Laboratory Control Sample	G950719F				09/20/95	1400

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Chloride	0.5	52.2	50.0			104.4

QUALITY CONTROL REPORT

Report Date: 10/10/95

Job Number....: 954302 Project....: ENRON-WTI/4230

Method Description.: Chloride (Colorimetric, AA II)
Method Code.....: 325.2
Batch Code.....: 2090

Status.....: RVWD
QC Code.....: STD
Units.....: mg/L

Calc Code.....:
Equipment Code..:
Import Code.....:

Analyst ...: sgm

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
CCV	Continuing Calibration Verification	G950719D				09/20/95	1400

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Chloride	0.5	80.1	80.0			100.1

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank					09/20/95	1400

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Chloride	0.5	0.0			

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
MD	Method Duplicate		954281-1	Unfiltered		09/20/95	1400

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	RPD	ABS Diff.
Chloride	0.5	4.1		4.2		2	

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
MS	Matrix Spike	G950503A	954281-1	Unfiltered	20	09/20/95	1400

Test Description	Detection Limit	QC Value	Diluted Value	Orig. Value	Alt. Value	% REC
Chloride	0.5	54.5	50.00000	4.2		100.6

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
CCV	Continuing Calibration Verification	G950719D				09/20/95	1400

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Chloride	0.5	81.7	80.0			102.1

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QUALITY CONTROL REPORT

Report Date: 10/10/95

Job Number....: 954302 Project....: ENRON-WTI/4230

Method Description.: Chloride (Colorimetric, AA II)
Method Code.....: 325.2
Batch Code.....: 2090

Status.....: RVWD
QC Code.....: STD
Units.....: mg/L

Calc Code.....:
Equipment Code..:
Import Code.....:

Analyst ...: sgm

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank					09/20/95	1400

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Chloride	0.5	0.0			

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
MD	Method Duplicate		954287-1	Unfiltered		09/20/95	1400

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	RPD	ABS Diff.
Chloride	0.5	1.4		1.4			0.0

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
MS	Matrix Spike	G950503A	954287-1	Unfiltered	20	09/20/95	1400

Test Description	Detection Limit	QC Value	Diluted Value	Orig. Value	Alt. Value	% REC
Chloride	0.5	54.2	50.00000	1.4		105.6

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
CCV	Continuing Calibration Verification	G950719D				09/20/95	1400

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Chloride	0.5	78.9	80.0			98.6

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank					09/20/95	1400

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Chloride	0.5	0.0			

QUALITY CONTROL REPORT
Report Date: 10/10/95
Job Number....: 954302 Project....: ENRON-WTI/4230

Method Description.: Volatile Organics
Method Code.....: 8240
Batch Code.....: 2093
Status.....: RVWD
QC Code.....: 8000
Units.....: ug/L
Calc Code.....:
Equipment Code..:
Import Code.....:
Analyst ...: bfr

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
MB	Method Blank					09/20/95	1116

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Acetone	100	ND			
Benzene	1	ND			
Bromodichloromethane	5	ND			
Bromoform	5	ND			
Bromomethane	10	ND			
Methyl ethyl ketone (2-Butanone)	100	ND			
Carbon disulfide	5	ND			
Carbon tetrachloride	5	ND			
Chlorobenzene	5	ND			
Chloroethane	10	ND			
2-Chloroethylvinyl ether	10	ND			
Chloroform	5	ND			
Chloromethane	10	ND			
Dibromochloromethane	5	ND			
1,1-Dichloroethane	5	ND			
1,2-Dichloroethane	5	ND			
1,1-Dichloroethene	5	ND			
trans-1,2-Dichloroethene	5	ND			
1,2-Dichloropropane	5	ND			
cis-1,3-Dichloropropene	5	ND			
trans-1,3-Dichloropropene	5	ND			
Ethylbenzene	5	ND			
2-Hexanone	50	ND			
Methylene chloride	5	ND			
4-Methyl-2-pentanone (MIBK)	50	ND			
Styrene	5	ND			
1,1,2,2-Tetrachloroethane	5	ND			
Tetrachloroethene	5	ND			
Toluene	5	ND			
1,1,1-Trichloroethane	5	ND			
1,1,2-Trichloroethane	5	ND			
Trichloroethene	5	ND			

CORE LABORATORIES

QUALITY CONTROL REPORT

Report Date: 10/10/95

Job Number....: 954302 Project....: ENRON-WTI/4230

Method Description.: Volatile Organics
Method Code.....: 8240
Batch Code.....: 2093

Status.....: RVWD
QC Code.....: 8000
Units.....: ug/L

Calc Code.....:
Equipment Code..:
Import Code.....:

Analyst ...: bfr

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
MB	Method Blank					09/20/95	1116

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Vinyl acetate	50	ND			
Vinyl chloride	10	ND			
Xylenes (total)	5	ND			

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
MST	Matrix Spike (with unique test limits)	V950920B	954302-7			09/20/95	1807

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Benzene	1	52.4	50.940	ND		102.9
Chlorobenzene	5	52.7	50.525	ND		104.3
1,1-Dichloroethene	5	53.3	52.475	5		92.0
Toluene	5	51.9	50.310	ND		103.2
Trichloroethene	5	52.1	50.505	ND		103.2

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
MTD	Matrix Spike Duplicate	V950920B	954302-7			09/20/95	1841

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC	RPD
Benzene	1	52.2	50.940	ND	52.4	102.5	0
Chlorobenzene	5	51.7	50.525	ND	52.7	102.3	2
1,1-Dichloroethene	5	54.4	52.475	5	53.3	94.1	2
Toluene	5	51.4	50.310	ND	51.9	102.2	1
Trichloroethene	5	51.1	50.505	ND	52.1	101.2	2

QUALITY CONTROL REPORT

Report Date: 10/10/95

Job Number....: 954302 Project....: ENRON-WTI/4230

Method Description.: Alkalinity
Method Code.....: 310.1
Batch Code.....: 2118

Status.....: RVWD
QC Code.....: STD
Units.....: mg/L CaCO3

Calc Code.....: ALK4
Equipment Code..:
Import Code.....:

Analyst ...: kds

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date Time
MB	Method Blank					09/20/95 1300

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Alkalinity, Total as CaCO3	5	0			

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date Time
LCS	Laboratory Control Sample	G950712B				09/20/95 1300

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Alkalinity, Total as CaCO3	5	100	100			100.0

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date Time
MD	Method Duplicate		954264-4	Filtered		09/20/95 1300

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	RPD	ABS Diff.
Alkalinity, Total as CaCO3	5	208		206		1	

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date Time
MD	Method Duplicate		954280-1	Filtered		09/20/95 1300

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	RPD	ABS Diff.
Alkalinity, Total as CaCO3	5	99		102		3	

QUALITY CONTROL REPORT

Report Date: 10/10/95

Job Number....: 954302 Project....: ENRON-WTI/4230

Method Description.: Mercury (CVAA)
Method Code.....: 7470
Batch Code.....: 2171

Status.....: RVWD
QC Code.....: MET
Units.....: mg/L

Calc Code.....:
Equipment Code..:
Import Code.....:

Analyst ...: lmt

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date Time
ICV	Initial Calibration Verification	950911B			10	09/26/95 0920

Test Description	Detection Limit	QC Value	Diluted Value	Orig. Value	Alt. Value	% REC
Mercury (Hg)	0.0002	0.00415	0.00400			103.8

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date Time
ICB	Initial Calibration Blank					09/26/95 0922

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Mercury (Hg)	0.0002	-0.0001			

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date Time
MD	Method Duplicate		954212-4	Total		09/26/95 0927

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	RPD	ABS Diff.
Mercury (Hg)	0.0002	0.00038		0.00038			0.00000

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date Time
MS	Matrix Spike	950925C	954250-3	Total	20	09/26/95 0932

Test Description	Detection Limit	QC Value	Diluted Value	Orig. Value	Alt. Value	% REC
Mercury (Hg)	0.0002	0.00491	0.00500	-0.0001		100.2

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date Time
MB	Method Blank					09/26/95 0941

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Mercury (Hg)	0.0002	-0.00017			

QUALITY CONTROL REPORT

Report Date: 10/10/95

Job Number....: 954302 Project....: ENRON-WTI/4230

Method Description.: Mercury (CVAA) Status.....: RVWD Calc Code.....: Analyst ...: lmt
Method Code.....: 7470 QC Code.....: MET Equipment Code..:
Batch Code.....: 2171 Units.....: mg/L Import Code.....:

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date Time
SB	Spiked Blank	1219K			2000	09/26/95 0943

Test Description	Detection Limit	QC Value	Diluted Value	Orig. Value	Alt. Value	% REC
Mercury (Hg)	0.0002	0.00465	0.00500	-0.00017		93.0

SBD	Spiked Blank Duplicate	1219K			2000	09/26/95 0945

Test Description	Detection Limit	QC Value	Diluted Value	Orig. Value	Alt. Value	% REC	RPD
Mercury (Hg)	0.0002	0.00479	0.00500	-0.00017	0.00465	95.8	3.0

CCV	Continuing Calibration Verification	1013P			4000	09/26/95 0948

Test Description	Detection Limit	QC Value	Diluted Value	Orig. Value	Alt. Value	% REC
Mercury (Hg)	0.0002	0.00247	0.00250			98.8

CCB	Continuing Calibration Blank					09/26/95 0950

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Mercury (Hg)	0.0002	0.00009			

MD	Method Duplicate		954157-5	Wipe		09/26/95 0955

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	RPD	ABS Diff.
Mercury (Hg)	0.0002	-0.00017		-0.00017			0.00000

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QUALITY CONTROL REPORT

Report Date: 10/10/95

Job Number....: 954302 Project....: ENRON-WTI/4230

Method Description.: Mercury (CVAA)
Method Code.....: 7470
Batch Code.....: 2171

Status.....: RVWD
QC Code.....: MET
Units.....: mg/L

Calc Code.....:
Equipment Code..:
Import Code.....:

Analyst ...: lmt

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
MS	Matrix Spike	1219K	954157-5	Wipe	2000	09/26/95	0957

Test Description	Detection Limit	QC Value	Diluted Value	Orig. Value	Alt. Value	% REC
Mercury (Hg)	0.0002	0.00397	0.00500	-0.00017		82.8

QC Type	Description		Lab ID	MTX		Date	Time
MD	Method Duplicate		954302-5	Total		09/26/95	1006

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	RPD	ABS Diff.
Mercury (Hg)	0.0002	-0.00017		-0.0001			0.00007

QC Type	Description		Lab ID	MTX		Date	Time
MS	Matrix Spike	950925C	954302-7	Total	20	09/26/95	1011

Test Description	Detection Limit	QC Value	Diluted Value	Orig. Value	Alt. Value	% REC
Mercury (Hg)	0.0002	0.00479	0.00500	-0.0001		97.8

QC Type	Description		Lab ID	MTX		Date	Time
CCV	Continuing Calibration Verification	1013P			4000	09/26/95	1015

Test Description	Detection Limit	QC Value	Diluted Value	Orig. Value	Alt. Value	% REC
Mercury (Hg)	0.0002	0.00244	0.00250			97.6

QC Type	Description					Date	Time
CCB	Continuing Calibration Blank					09/26/95	1018

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Mercury (Hg)	0.0002	-0.0001			

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CORE LABORATORIES

QUALITY CONTROL REPORT

Report Date: 10/10/95

Job Number....: 954302 Project....: ENRON-WTI/4230

Method Description.: Mercury (CVAA) Status.....: RVWD Calc Code.....: Analyst ...: lmt
Method Code.....: 7470 QC Code.....: MET Equipment Code..:
Batch Code.....: 2171 Units.....: mg/L Import Code.....:

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date Time
EB	Extraction Blank					09/26/95 1020

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Mercury (Hg)	0.0002	0.00009			

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date Time
MS	Matrix Spike	950925C	951848-2	Total	20	09/26/95 1025

Test Description	Detection Limit	QC Value	Diluted Value	Orig. Value	Alt. Value	% REC
Mercury (Hg)	0.0002	0.00503	0.00500	0.00021		96.4

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date Time
ED	Extraction Duplicate		951467-4	Total		09/26/95 1032

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	RPD	ABS Diff.
Mercury (Hg)	0.0002	-0.00017		-0.0001			0.00007

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date Time
DD	Digestion Duplicate		951867-4	Total		09/26/95 1034

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	RPD	ABS Diff.
Mercury (Hg)	0.0002	-0.00017		-0.0001			0.00007

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date Time
CCV	Continuing Calibration Verification	1013P			4000	09/26/95 1041

Test Description	Detection Limit	QC Value	Diluted Value	Orig. Value	Alt. Value	% REC
Mercury (Hg)	0.0002	0.00259	0.00250			103.6

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QUALITY CONTROL REPORT

Report Date: 10/10/95

Job Number....: 954302 Project....: ENRON-WTI/4230

Method Description.: Mercury (CVAA)
Method Code.....: 7470
Batch Code.....: 2171

Status.....: RVWD
QC Code.....: MET
Units.....: mg/L

Calc Code.....:
Equipment Code..:
Import Code.....:

Analyst ...: lmt

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date Time
CCB	Continuing Calibration Blank					09/26/95 1043

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Mercury (Hg)	0.0002	-0.0001			

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date Time
CRA	Contract Required Detection Limit	950925C			500	09/26/95 1059

Test Description	Detection Limit	QC Value	Diluted Value	Orig. Value	Alt. Value	% REC
Mercury (Hg)	0.0002	0.00024	0.00020			120.0

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date Time
MD	Method Duplicate		954281-1	Dissolved		09/26/95 1104

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	RPD	ABS Diff.
Mercury (Hg)	0.0002	-0.00017		-0.00017			0.00000

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date Time
MS	Matrix Spike	950925C	954281-1	Dissolved	20	09/26/95 1106

Test Description	Detection Limit	QC Value	Diluted Value	Orig. Value	Alt. Value	% REC
Mercury (Hg)	0.0002	0.00429	0.00500	-0.00017		89.2

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date Time
CCV	Continuing Calibration Verification	1013P			4000	09/26/95 1108

Test Description	Detection Limit	QC Value	Diluted Value	Orig. Value	Alt. Value	% REC
Mercury (Hg)	0.0002	0.00250	0.00250			100.0

QUALITY CONTROL REPORT

Report Date: 10/10/95

Job Number....: 954302 Project....: ENRON-WTI/4230

Method Description.: Mercury (CVAA) Status.....: RVWD Calc Code.....: Analyst ...: lmt
Method Code.....: 7470 QC Code.....: MET Equipment Code..:
Batch Code.....: 2171 Units.....: mg/L Import Code.....:

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank					09/26/95	1111

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Mercury (Hg)	0.0002	-0.00003			

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
EB	Extraction Blank					09/26/95	1113

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Mercury (Hg)	0.0002	-0.0001			

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
ED	Extraction Duplicate		954250-3	Total		09/26/95	1115

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	RPD	ABS Diff.
Mercury (Hg)	0.0002	-0.00017		-0.0001			0.00007

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
CCV	Continuing Calibration Verification	1013P			4000	09/26/95	1118

Test Description	Detection Limit	QC Value	Diluted Value	Orig. Value	Alt. Value	% REC
Mercury (Hg)	0.0002	0.00250	0.00250			100.0

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank					09/26/95	1120

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Mercury (Hg)	0.0002	-0.00017			

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QUALITY CONTROL REPORT

Report Date: 10/10/95

Job Number....: 954302 Project....: ENRON-WTI/4230

Method Description.: Sulfate (Automated MTB, AAII)
Method Code.....: 375.2
Batch Code.....: 2297

Status.....: RVWD
QC Code.....: STD
Units.....: mg/L

Calc Code.....:
Equipment Code..:
Import Code.....:

Analyst ...: sgm

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
ICL	Initial Calibration/Lab Control Sample	G950517A				09/28/95	1400

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Sulfate (SO4)	10	78	75			104.0

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
ICB	Initial Calibration Blank					09/28/95	1416

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Sulfate (SO4)	10	0			

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
CCV	Continuing Calibration Verification	G950720B				09/28/95	1627

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Sulfate (SO4)	10	83	80			103.8

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank					09/28/95	1644

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Sulfate (SO4)	10	0			

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
MD	Method Duplicate		951391-345	Filtered		09/28/95	1700

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	RPD	ABS Diff.
Sulfate (SO4)	10	31		33			2

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QUALITY CONTROL REPORT

Report Date: 10/10/95

Job Number....: 954302 Project....: ENRON-WTI/4230

Method Description.: Sulfate (Automated MTB, AAII)
Method Code.....: 375.2
Batch Code.....: 2297

Status.....: RVWD
QC Code.....: STD
Units.....: mg/L

Calc Code.....:
Equipment Code..:
Import Code.....:

Analyst ...: sgm

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
MS	Matrix Spike	G950328A	951391-345	Filtered	20	09/28/95	1700

Test Description	Detection Limit	QC Value	Diluted Value	Orig. Value	Alt. Value	% REC
Sulfate (SO4)	10	81	50.00000	33		96.0

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QUALITY CONTROL REPORT

Report Date: 10/10/95

Job Number....: 954302 Project....: ENRON-WTI/4230

Method Description.: Metals Analysis (ICAP)
Method Code.....: 6010
Batch Code.....: 2467

Status.....: RVWD
QC Code.....: MET
Units.....: mg/L

Calc Code.....:
Equipment Code..: ICPT
Import Code.....: ICP02

Analyst ...: gef

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
ICV	Initial Calibration Verification	950915B				10/04/95	1743

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Arsenic (As)	0.05	1.97788	2.00			98.9
Cadmium (Cd)	0.005	2.04240	2.00			102.1
Chromium (Cr)	0.01	2.00532	2.00			100.3
Lead (Pb)	0.05	2.02799	2.00			101.4
Selenium (Se)	0.1	2.08607	2.00			104.3

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
ICV	Initial Calibration Verification	9503020				10/04/95	1747

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Silver (Ag)	0.01	0.99342	1.00			99.3
Barium (Ba)	0.01	1.00586	1.00			100.6

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
ICV	Initial Calibration Verification	950426E				10/04/95	1754

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Calcium (Ca)	1	198.47756	200			99.2
Magnesium (Mg)	0.5	195.03924	200			97.5
Sodium (Na)	0.1	186.06446	200			93.0

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
ICB	Initial Calibration Blank	950911D				10/04/95	1758

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Silver (Ag)	0.01	0.00022			
Arsenic (As)	0.05	-0.00019			
Barium (Ba)	0.01	-0.00000			
Calcium (Ca)	1	0.01958			

CORE LABORATORIES

QUALITY CONTROL REPORT

Report Date: 10/10/95

Job Number....: 954302 Project....: ENRON-WTI/4230

Method Description.: Metals Analysis (ICAP)
Method Code.....: 6010
Batch Code.....: 2467

Status.....: RVWD
QC Code.....: MET
Units.....: mg/L

Calc Code.....:
Equipment Code..: ICPT
Import Code.....: ICP02

Analyst ...: gef

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
ICB	Initial Calibration Blank	950911D				10/04/95	1758

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Cadmium (Cd)	0.005	0.00032			
Chromium (Cr)	0.01	0.00088			
Magnesium (Mg)	0.5	0.01328			
Sodium (Na)	0.1	0.01952			
Lead (Pb)	0.05	0.00022			
Selenium (Se)	0.1	0.00074			

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
ISA	Interference Check Sample A	950612I				10/04/95	1803

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Calcium (Ca)	1	470.80285	500			94.2
Magnesium (Mg)	0.5	530.01843	500			106.0
Sodium (Na)	5	539.63317	500			107.9

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
ISB	Interference Check Sample B	950927E				10/04/95	1806

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Silver (Ag)	0.01	0.91614	1.000			91.6
Arsenic (As)	0.05	0.94052	1.0000			94.1
Barium (Ba)	0.01	0.54430	0.5000			108.9
Calcium (Ca)	1	452.44982	500			90.5
Cadmium (Cd)	0.005	0.97883	1.000			97.9
Chromium (Cr)	0.01	0.48977	0.5000			98.0
Magnesium (Mg)	0.5	506.80105	500			101.4
Sodium (Na)	5	512.02423	500			102.4
Lead (Pb)	0.05	0.94322	1.000			94.3
Selenium (Se)	0.1	0.99915	1.000			99.9

CORE LABORATORIES

QUALITY CONTROL REPORT

Report Date: 10/10/95

Job Number....: 954302 Project....: ENRON-WTI/4230

Method Description.: Metals Analysis (ICAP) Status.....: RVWD Calc Code.....: Analyst ...: gef
Method Code.....: 6010 QC Code.....: MET Equipment Code..: ICPT
Batch Code.....: 2467 Units.....: mg/L Import Code.....: ICP02

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date Time
MB	Method Blank	950911D				10/04/95 1812

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Silver (Ag)	0.01	0.00057			
Arsenic (As)	0.05	0.00436			
Barium (Ba)	0.01	-0.00017			
Calcium (Ca)	1	-0.00000			
Cadmium (Cd)	0.005	-0.00031			
Chromium (Cr)	0.01	0.00044			
Magnesium (Mg)	0.5	0.00000			
Sodium (Na)	0.1	-0.03416			
Lead (Pb)	0.05	0.00099			
Selenium (Se)	0.1	0.00393			

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date Time
LCS	Laboratory Control Sample	950825A				10/04/95 1815

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Silver (Ag)	0.01	0.99821	1.00			99.8
Arsenic (As)	0.05	1.00151	1.00			100.2
Barium (Ba)	0.01	1.01871	1.00			101.9
Cadmium (Cd)	0.005	1.04696	1.00			104.7
Chromium (Cr)	0.01	1.02533	1.00			102.5
Lead (Pb)	0.05	1.04037	1.00			104.0
Selenium (Se)	0.1	1.00541	1.00			100.5

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date Time
MD	Method Duplicate		954442-1	Total		10/04/95 1820

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	RPD	ABS Diff.
Silver (Ag)	0.01	0.00379		0.00379			0.00000
Arsenic (As)	0.05	0.00718		0.00643			0.00075
Barium (Ba)	0.01	0.09208		0.09284		0	

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CORE LABORATORIES

QUALITY CONTROL REPORT

Report Date: 10/10/95

Job Number....: 954302 Project....: ENRON-WTI/4230

Method Description.: Metals Analysis (ICAP)
Method Code.....: 6010
Batch Code.....: 2467

Status.....: RVWD
QC Code.....: MET
Units.....: mg/L

Calc Code.....:
Equipment Code..: ICPT
Import Code.....: ICP02

Analyst ...: gef

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date Time
MD	Method Duplicate		954442-1	Total		10/04/95 1820

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	RPD	ABS Diff.
Calcium (Ca)	1	186.65802		187.74154		0	
Cadmium (Cd)	0.005	0.01502		0.01532			0.00030
Chromium (Cr)	0.01	2.43133		2.44830		0	
Lead (Pb)	0.05	-0.01771		-0.01793			0.00022
Selenium (Se)	0.1	0.01343		0.01561			0.00218

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date Time
MS	Matrix Spike	950821D	954442-1	Total		10/04/95 1836

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Silver (Ag)	0.01	1.27077	1.000	0.00379		126.7
Arsenic (As)	0.05	0.98943	1.000	0.00643		98.3
Barium (Ba)	0.01	1.26556	1.000	0.09284		117.3
Cadmium (Cd)	0.005	1.06931	1.000	0.01532		105.4
Chromium (Cr)	0.01	3.63791	1.000	2.44830		119.0
Lead (Pb)	0.05	1.06327	1.000	-0.01793		108.1
Selenium (Se)	0.1	1.14411	1.000	0.01561		112.8

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date Time
PDS	Post Digestion Spike	950821D	954442-1	Total		10/04/95 1840

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Silver (Ag)	0.01	1.16276	1.000	0.00379		115.9
Arsenic (As)	0.05	0.90439	1.000	0.00643		89.8
Barium (Ba)	0.01	1.16289	1.000	0.09284		107.0
Cadmium (Cd)	0.005	0.98692	1.000	0.01532		97.2
Chromium (Cr)	0.01	3.47875	1.000	2.44830		103.0
Lead (Pb)	0.05	0.98985	1.000	-0.01793		100.8
Selenium (Se)	0.1	1.07926	1.000	0.01561		106.4

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QUALITY CONTROL REPORT

Report Date: 10/10/95

Job Number....: 954302 Project....: ENRON-WTI/4230

Method Description.: Metals Analysis (ICAP)
Method Code.....: 6010
Batch Code.....: 2467

Status.....: RVWD
QC Code.....: MET
Units.....: mg/L

Calc Code.....:
Equipment Code..: ICPT
Import Code.....: ICP02

Analyst ...: gef

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
CCV	Continuing Calibration Verification	950727J				10/04/95	1855

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Arsenic (As)	0.05	2.51606	2.5			100.6
Barium (Ba)	0.01	4.69486	5.0			93.9
Cadmium (Cd)	0.005	0.96712	1.0			96.7
Chromium (Cr)	0.01	2.57819	2.5			103.1
Lead (Pb)	0.05	0.98551	1.0			98.6
Selenium (Se)	0.1	2.56691	2.5			102.7

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
CCV	Continuing Calibration Verification	950929L				10/04/95	1903

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Silver (Ag)	0.01	2.54551	2.500			101.8
Calcium (Ca)	1	102.57433	100.00			102.6
Magnesium (Mg)	0.5	93.71774	100.00			93.7
Sodium (Na)	0.1	46.30691	50.000			92.6

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank	950911D				10/04/95	1911

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Silver (Ag)	0.01	-0.00067			
Arsenic (As)	0.05	-0.00229			
Barium (Ba)	0.01	-0.00017			
Calcium (Ca)	1	-0.00003			
Cadmium (Cd)	0.005	-0.00012			
Chromium (Cr)	0.01	0.00066			
Magnesium (Mg)	0.5	0.00569			
Sodium (Na)	0.1	0.02296			
Lead (Pb)	0.05	0.00189			
Selenium (Se)	0.1	0.00028			

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QUALITY CONTROL REPORT

Report Date: 10/10/95

Job Number....: 954302 Project....: ENRON-WTI/4230

Method Description.: Metals Analysis (ICAP)
Method Code.....: 6010
Batch Code.....: 2467

Status.....: RVWD
QC Code.....: MET
Units.....: mg/L

Calc Code.....:
Equipment Code..: ICPT
Import Code.....: ICP02

Analyst ...: gef

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
MB	Method Blank	0922				10/04/95	1925

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Silver (Ag)	0.01	0.00017			
Arsenic (As)	0.05	-0.00229			
Barium (Ba)	0.01	0.00008			
Calcium (Ca)	1	-0.00564			
Cadmium (Cd)	0.005	0.00041			
Chromium (Cr)	0.01	0.00088			
Magnesium (Mg)	0.5	-0.00569			
Sodium (Na)	0.1	-0.03656			
Lead (Pb)	0.05	0.00288			
Selenium (Se)	0.1	0.00263			

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
LCS	Laboratory Control Sample	950825A				10/04/95	1928

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Silver (Ag)	0.01	0.99158	1.00			99.2
Arsenic (As)	0.05	0.99462	1.00			99.5
Barium (Ba)	0.01	0.96779	1.00			96.8
Cadmium (Cd)	0.005	0.97998	1.00			98.0
Chromium (Cr)	0.01	1.06257	1.00			106.3
Lead (Pb)	0.05	0.97930	1.00			97.9
Selenium (Se)	0.1	0.95404	1.00			95.4

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
LCD	Laboratory Control Sample Duplicate	950825A				10/04/95	1930

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC	RPD
Silver (Ag)	0.01	0.98812	1.00		0.99158	98.8	0.3
Arsenic (As)	0.05	0.99320	1.00		0.99462	99.3	0.1
Barium (Ba)	0.01	0.96508	1.00		0.96779	96.5	0.3

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QUALITY CONTROL REPORT

Report Date: 10/10/95

Job Number....: 954302 Project....: ENRON-WTI/4230

Method Description.: Metals Analysis (ICAP)
Method Code.....: 6010
Batch Code.....: 2467

Status.....: RVWD
QC Code.....: MET
Units.....: mg/L

Calc Code.....:
Equipment Code..: ICPT
Import Code.....: ICP02

Analyst ...: gef

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date Time
LCD	Laboratory Control Sample Duplicate	950825A				10/04/95 1930

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC	RPD
Cadmium (Cd)	0.005	0.97592	1.00		0.97998	97.6	0.4
Chromium (Cr)	0.01	1.05552	1.00		1.06257	105.6	0.7
Lead (Pb)	0.05	0.98096	1.00		0.97930	98.1	0.2
Selenium (Se)	0.1	0.95174	1.00		0.95404	95.2	0.2

LCS	Laboratory Control Sample	950426D				10/04/95 1933

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Calcium (Ca)	1	193.58236	200			96.8
Magnesium (Mg)	0.5	185.05883	200			92.5
Sodium (Na)	0.1	192.27743	200			96.1

LCD	Laboratory Control Sample Duplicate	950426D				10/04/95 1935

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC	RPD
Calcium (Ca)	1	192.93496	200		193.58236	96.5	0.3
Magnesium (Mg)	0.5	184.66011	200		185.05883	92.3	0.2
Sodium (Na)	0.1	192.40567	200		192.27743	96.2	0.0

MD	Method Duplicate		954260-1	Total		10/04/95 1940

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	RPD	ABS Diff.
Silver (Ag)	0.01	0.00486		0.00496			0.00010
Arsenic (As)	0.05	0.00887		0.00214			0.00673
Barium (Ba)	0.01	0.23159		0.23569		2	
Calcium (Ca)	1	69.08255		69.64018		0	

QUALITY CONTROL REPORT

Report Date: 10/10/95

Job Number....: 954302 Project....: ENRON-WTI/4230

Method Description.: Metals Analysis (ICAP)
Method Code.....: 6010
Batch Code.....: 2467

Status.....: RVWD
QC Code.....: MET
Units.....: mg/L

Calc Code.....:
Equipment Code..: ICPT
Import Code.....: ICP02

Analyst ...: gef

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date Time
MD	Method Duplicate		954260-1	Total		10/04/95 1940

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	RPD	ABS Diff.
Cadmium (Cd)	0.005	0.00090		0.00107			0.00017
Chromium (Cr)	0.01	0.01606		0.01710			0.00104
Magnesium (Mg)	0.5	5.95983		6.06616		2	
Sodium (Na)	0.1	3.17267		3.23306			0.06039
Lead (Pb)	0.05	0.02201		0.02298			0.00097
Selenium (Se)	0.1	0.00340		0.00921			0.00581

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date Time
CCV	Continuing Calibration Verification	950727J				10/04/95 1950

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Arsenic (As)	0.05	2.47550	2.5			99.0
Barium (Ba)	0.01	4.71090	5.0			94.2
Cadmium (Cd)	0.005	0.95096	1.0			95.1
Chromium (Cr)	0.01	2.55580	2.5			102.2
Lead (Pb)	0.05	0.96943	1.0			96.9
Selenium (Se)	0.1	2.53667	2.5			101.5

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date Time
CCV	Continuing Calibration Verification	950929L				10/04/95 1954

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Silver (Ag)	0.01	2.55918	2.500			102.4
Calcium (Ca)	1	101.81201	100.00			101.8
Magnesium (Mg)	0.5	93.56512	100.00			93.6
Sodium (Na)	0.1	47.26521	50.000			94.5

CORE LABORATORIES

QUALITY CONTROL REPORT

Report Date: 10/10/95

Job Number....: 954302 Project....: ENRON-WTI/4230

Method Description.: Metals Analysis (ICAP) Status.....: RVWD Calc Code.....: Analyst ...: gef
Method Code.....: 6010 QC Code.....: MET Equipment Code..: ICPT
Batch Code.....: 2467 Units.....: mg/L Import Code.....: ICP02

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank	950911D				10/04/95	1957

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Silver (Ag)	0.01	-0.00047			
Arsenic (As)	0.05	-0.00112			
Barium (Ba)	0.01	-0.00000			
Calcium (Ca)	1	-0.00566			
Cadmium (Cd)	0.005	0.00010			
Chromium (Cr)	0.01	0.00088			
Magnesium (Mg)	0.5	-0.02468			
Sodium (Na)	0.1	0.00424			
Lead (Pb)	0.05	0.00094			
Selenium (Se)	0.1	0.00330			

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
MS	Matrix Spike	950821D	954302-5	Total		10/04/95	2006

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Silver (Ag)	0.01	1.11248	1.000	0.00247		111.0
Arsenic (As)	0.05	1.01199	1.000	0.00543		100.7
Barium (Ba)	0.01	1.25637	1.000	0.14115		111.5
Cadmium (Cd)	0.005	0.97035	1.000	0.00033		97.0
Chromium (Cr)	0.01	1.09493	1.000	0.00777		108.7
Magnesium (Mg)	0.5	203.59718	50.00	146.74990		113.7
Lead (Pb)	0.05	1.02832	1.000	0.00090		102.7
Selenium (Se)	0.1	1.01742	1.000	0.01385		100.4

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
PDS	Post Digestion Spike	950821D	954302-5	Total		10/04/95	2020

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Calcium (Ca)	1	78.93246	50.00	27.58151		102.7
Sodium (Na)	0.1	65.70086	50.000	16.93935		97.5

QUALITY CONTROL REPORT

Report Date: 10/10/95

Job Number....: 954302 Project....: ENRON-WTI/4230

Method Description.: Metals Analysis (ICAP) Status.....: RVWD Calc Code.....: Analyst ...: gef
Method Code.....: 6010 QC Code.....: MET Equipment Code..: ICPT
Batch Code.....: 2467 Units.....: mg/L Import Code.....: ICP02

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
CCV	Continuing Calibration Verification	950727J				10/04/95	2037

Test Description	Detection Limit	QC Value	True Value	Orig Value	Alt. Value	% REC
Arsenic (As)	0.05	2.52739	2.5			101.1
Barium (Ba)	0.01	4.69057	5.0			93.8
Cadmium (Cd)	0.005	0.98489	1.0			98.5
Chromium (Cr)	0.01	2.43730	2.5			97.5
Lead (Pb)	0.05	1.00286	1.0			100.3
Selenium (Se)	0.1	2.56493	2.5			102.6

CCV	Continuing Calibration Verification	950929L				10/04/95	2044

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Silver (Ag)	0.01	2.56829	2.500			102.7
Calcium (Ca)	1	106.31813	100.00			106.3
Magnesium (Mg)	0.5	96.88394	100.00			96.9
Sodium (Na)	0.1	47.66775	50.000			95.3

CCB	Continuing Calibration Blank	950911D				10/04/95	2047

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Silver (Ag)	0.01	0.00017			
Arsenic (As)	0.05	-0.00259			
Barium (Ba)	0.01	0.00017			
Calcium (Ca)	1	0.01115			
Cadmium (Cd)	0.005	0.00048			
Chromium (Cr)	0.01	-0.00040			
Magnesium (Mg)	0.5	0.03227			
Sodium (Na)	0.1	0.01384			
Lead (Pb)	0.05	-0.00191			
Selenium (Se)	0.1	0.00114			

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QUALITY CONTROL REPORT

Report Date: 10/10/95

Job Number....: 954302 Project....: ENRON-WTI/4230

Method Description.: Metals Analysis (ICAP)
Method Code.....: 6010
Batch Code.....: 2467

Status.....: RVWD
QC Code.....: MET
Units.....: mg/L

Calc Code.....:
Equipment Code..: ICPT
Import Code.....: ICP02

Analyst ...: gef

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
ISA	Interference Check Sample A	950612I				10/04/95	2102

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Calcium (Ca)	1	527.42236	500			105.5
Magnesium (Mg)	0.5	551.05456	500			110.2
Sodium (Na)	5	499.86199	500			100.0

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
ISB	Interference Check Sample B	950816E				10/04/95	2106

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Silver (Ag)	0.01	0.84407	1.000			84.4
Arsenic (As)	0.05	0.96110	1.000			96.1
Barium (Ba)	0.01	0.50859	0.5000			101.7
Calcium (Ca)	1	504.45947	500			100.9
Cadmium (Cd)	0.005	0.94893	1.000			94.9
Chromium (Cr)	0.01	0.48913	0.5000			97.8
Magnesium (Mg)	0.5	526.34179	500			105.3
Sodium (Na)	5	472.56182	500			94.5
Lead (Pb)	0.05	0.91206	1.000			91.2
Selenium (Se)	0.1	0.99187	1.000			99.2

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
CCV	Continuing Calibration Verification	950727J				10/04/95	2108

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Arsenic (As)	0.05	2.51912	2.5			100.8
Barium (Ba)	0.01	4.63206	5.0			92.6
Cadmium (Cd)	0.005	0.98722	1.0			98.7
Chromium (Cr)	0.01	2.43036	2.5			97.2
Lead (Pb)	0.05	0.99791	1.0			99.8
Selenium (Se)	0.1	2.53791	2.5			101.5

QUALITY CONTROL REPORT

Report Date: 10/10/95

Job Number....: 954302 Project....: ENRON-WTI/4230

Method Description.: Metals Analysis (ICAP) Status.....: RVWD Calc Code.....: Analyst ...: gef
Method Code.....: 6010 QC Code.....: MET Equipment Code..: ICPT
Batch Code.....: 2467 Units.....: mg/L Import Code.....: ICP02

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
CCV	Continuing Calibration Verification	950929L				10/04/95	2112

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	% REC
Silver (Ag)	0.01	2.60051	2.500			104.0
Calcium (Ca)	1	109.59555	100.00			109.6
Magnesium (Mg)	0.5	99.56103	100.00			99.6
Sodium (Na)	0.1	48.34528	50.000			96.7

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank	950911D				10/04/95	2114

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Silver (Ag)	0.01	-0.00074			
Arsenic (As)	0.05	-0.00306			
Barium (Ba)	0.01	0.00008			
Calcium (Ca)	1	0.02236			
Cadmium (Cd)	0.005	0.00018			
Chromium (Cr)	0.01	0.00040			
Magnesium (Mg)	0.5	0.00379			
Sodium (Na)	0.1	0.01531			
Lead (Pb)	0.05	-0.00127			
Selenium (Se)	0.1	0.00431			

CORE LABORATORIES

QUALITY CONTROL REPORT

Report Date: 10/10/95

Job Number....: 954302 Project....: ENRON-WTI/4230

Method Description.: Potassium (FLAA)
Method Code.....: 7610
Batch Code.....: 2541

Status.....: RVWD
QC Code.....: MET
Units.....: mg/L

Calc Code.....:
Equipment Code..:
Import Code.....:

Analyst ...: gef

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date Time
ICV	Initial Calibration Verification	950426D			50	10/06/95 1230

Test Description	Detection Limit	QC Value	Diluted Value	Orig. Value	Alt. Value	% REC
Potassium (K)	0.1	1.96	2.00000			98.0

ICB	Initial Calibration Blank					10/06/95 1231

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Potassium (K)	0.1	0.05			

MB	Method Blank					10/06/95 1232

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Potassium (K)	0.1	0.08			

LCS	Laboratory Control Sample	950426D			50	10/06/95 1233

Test Description	Detection Limit	QC Value	Diluted Value	Orig. Value	Alt. Value	% REC
Potassium (K)	0.1	1.83	2.00000			91.5

MD	Method Duplicate		954302-5	Total		10/06/95 1234

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	RPD	ABS Diff.
Potassium (K)	0.1	6.85		7.03		3	

QUALITY CONTROL REPORT

Report Date: 10/10/95

Job Number....: 954302 Project....: ENRON-WTI/4230

Method Description.: Potassium (FLAA) Status.....: RVWD Calc Code.....: Analyst ...: gef
Method Code.....: 7610 QC Code.....: MET Equipment Code..:
Batch Code.....: 2541 Units.....: mg/L Import Code.....:

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date Time
MS	Matrix Spike	950728D	954302-7	Total	200	10/06/95 1236

Test Description	Detection Limit	QC Value	Diluted Value	Orig. Value	Alt. Value	% REC
Potassium (K)	0.1	9.28	2.50000	6.51		110.8

CCV	Continuing Calibration Verification	950830H			2	10/06/95 1240

Test Description	Detection Limit	QC Value	Diluted Value	Orig. Value	Alt. Value	% REC
Potassium (K)	0.1	4.56	5.00000			91.2

CCB	Continuing Calibration Blank					10/06/95 1241

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Potassium (K)	0.1	0.05			

MD	Method Duplicate		954310-1	Dissolved		10/06/95 1243

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value	RPD	ABS Diff.
Potassium (K)	0.1	9.26		9.32		0	

MS	Matrix Spike	950728D	954323-1	Dissolved	200	10/06/95 1244

Test Description	Detection Limit	QC Value	Diluted Value	Orig. Value	Alt. Value	% REC
Potassium (K)	0.1	5.48	2.50000	3.24		89.6

QUALITY CONTROL REPORT

Report Date: 10/10/95

Job Number....: 954302 Project....: ENRON-WTI/4230

Method Description.: Potassium (FLAA)
Method Code.....: 7610
Batch Code.....: 2541

Status.....: RVWD
QC Code.....: MET
Units.....: mg/L

Calc Code.....:
Equipment Code..:
Import Code.....:

Analyst ...: gef

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
CCV	Continuing Calibration Verification	950830H			2	10/06/95	1247

Test Description	Detection Limit	QC Value	Diluted Value	Orig. Value	Alt. Value	% REC
Potassium (K)	0.1	4.87	5.00000			97.4

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank					10/06/95	1248

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Potassium (K)	0.1	0.08			

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
CCV	Continuing Calibration Verification	950830H			2	10/06/95	1249

Test Description	Detection Limit	QC Value	Diluted Value	Orig. Value	Alt. Value	% REC
Potassium (K)	0.1	4.97	5.00000			99.4

QC Type	Description	Reag. Code	Lab ID	MTX	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank					10/06/95	1250

Test Description	Detection Limit	QC Value	True Value	Orig. Value	Alt. Value
Potassium (K)	0.1	0.03			

QUALITY CONTROL REPORT
SURROGATE RECOVERIES
Report Date: 10/10/95

Method Description.: Volatile Organics
Method Code.....: 8240
Batch Code.....: 2093

Status.....: RVWD
QC Code.....: 8000

Calc Code.....:
Equipment Code..:
Import Code.....:

Analyst ...: bfr
Job Number.: 954302

Surrogate	Test Matrix	Dilution Factor
4-Bromofluorobenzene		2.74

Lab ID	QC Type	Result	Units	True Value	Percent Recovery	Flag	Date	Time
	MB	51.6	ug/L	50.1861	103		09/20/95	1116
954302-11		51.2	ug/L	50.1861	102		09/20/95	1208
954302-1		50.4	ug/L	50.1861	100		09/20/95	1240
954302-2		51.0	ug/L	50.1861	102		09/20/95	1311
954302-3		50.5	ug/L	50.1861	101		09/20/95	1343
954302-4		52.3	ug/L	50.1861	104		09/20/95	1416
954302-5		50.3	ug/L	50.1861	100		09/20/95	1448
954302-6		50.1	ug/L	50.1861	100		09/20/95	1520
954302-7		51.3	ug/L	50.1861	102		09/20/95	1552
954302-8		50.8	ug/L	50.1861	101		09/20/95	1624
954302-9		51.5	ug/L	50.1861	103		09/20/95	1656
954302-10		50.5	ug/L	50.1861	101		09/20/95	1728
954302-7	MST	51.2	ug/L	50.1861	102		09/20/95	1807
954302-7	MTD	52.0	ug/L	50.1861	104		09/20/95	1841

Surrogate	Test Matrix	Dilution Factor
Dibromofluoromethane		2.74

Lab ID	QC Type	Result	Units	True Value	Percent Recovery	Flag	Date	Time
	MB	49.7	ug/L	50.1095	99.2		09/20/95	1116
954302-11		51.2	ug/L	50.1095	102.2		09/20/95	1208
954302-1		50.7	ug/L	50.1095	101.2		09/20/95	1240
954302-2		51.0	ug/L	50.1095	101.8		09/20/95	1311
954302-3		51.2	ug/L	50.1095	102.2		09/20/95	1343
954302-4		51.2	ug/L	50.1095	102.2		09/20/95	1416
954302-5		51.3	ug/L	50.1095	102.4		09/20/95	1448
954302-6		50.4	ug/L	50.1095	100.6		09/20/95	1520
954302-7		51.5	ug/L	50.1095	102.8		09/20/95	1552

QUALITY CONTROL REPORT
SURROGATE RECOVERIES
Report Date: 10/10/95

Method Description.: Volatile Organics
Method Code.....: 8240
Batch Code.....: 2093

Status.....: RVWD
QC Code.....: 8000

Calc Code.....:
Equipment Code..:
Import Code.....:

Analyst ...: bfr
Job Number.: 954302

Surrogate	Test Matrix	Dilution Factor
Dibromofluoromethane		2.74

Lab ID	QC Type	Result	Units	True Value	Percent Recovery	Flag	Date	Time
954302-8		51.4	ug/L	50.1095	102.6		09/20/95	1624
954302-9		52.4	ug/L	50.1095	104.6		09/20/95	1656
954302-10		50.0	ug/L	50.1095	99.8		09/20/95	1728
954302-7	MST	48.5	ug/L	50.1095	96.8		09/20/95	1807
954302-7	MTD	49.2	ug/L	50.1095	98.2		09/20/95	1841

Surrogate	Test Matrix	Dilution Factor
Toluene-d8		2.74

Lab ID	QC Type	Result	Units	True Value	Percent Recovery	Flag	Date	Time
	MB	51.4	ug/L	50.1898	102.4		09/20/95	1116
954302-11		50.0	ug/L	50.1898	99.6		09/20/95	1208
954302-1		50.1	ug/L	50.1898	99.8		09/20/95	1240
954302-2		50.2	ug/L	50.1898	100.0		09/20/95	1311
954302-3		49.9	ug/L	50.1898	99.4		09/20/95	1343
954302-4		50.6	ug/L	50.1898	100.8		09/20/95	1416
954302-5		50.0	ug/L	50.1898	99.6		09/20/95	1448
954302-6		49.6	ug/L	50.1898	98.8		09/20/95	1520
954302-7		50.8	ug/L	50.1898	101.2		09/20/95	1552
954302-8		50.4	ug/L	50.1898	100.4		09/20/95	1624
954302-9		49.7	ug/L	50.1898	99.0		09/20/95	1656
954302-10		49.4	ug/L	50.1898	98.4		09/20/95	1728
954302-7	MST	49.4	ug/L	50.1898	98.4		09/20/95	1807
954302-7	MTD	49.4	ug/L	50.1898	98.4		09/20/95	1841

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 10/10/95

Volatile Organics

Method 602/8020

Surrogate Recovery Limits

	Water	Soil
Bromofluorobenzene	89-110%	78-123%

Spike/Spike Duplicate Recovery Limits

	Water	Soil
Benzene	75-125%	75-125%
Ethylbenzene	75-125%	75-125%
Toluene	75-125%	75-125%
Xylenes	75-125%	75-125%

Method 8015 Modified

Spike/Spike Duplicate Recovery Limits

	Water	Soil
TVPH	81-124%	81-124%
TEPH	54-135%	54-135%

Method 624/8240/8260

Surrogate Recovery Limits

	Water	Soil
Dibromofluoromethane	86-118%	80-120%
Toluene-(d8)	88-110%	81-117%
4-Bromofluorobenzene	86-115%	74-121%

Spike/Spike Duplicate Recovery & RPD Limits

	Water Recovery	RPD	Soil Recovery	RPD
1,1-Dichloroethene	61-145%	14	59-172%	22
Trichloroethene	71-120%	14	62-137%	24
Benzene	76-127%	11	66-142%	21
Toluene	76-125%	13	59-139%	21
Chlorobenzene	75-130%	13	60-133%	21

Pesticides/PCB Organics

Method 608/8080

Surrogate Recovery Limits

	Water	Soil
Tetrachloro-m-xylene	60-150%	60-150%
4,4'-Dichlorobiphenyl	60-150%	60-150%

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 10/10/95

Method 8140
Surrogate Recovery Limits

	Water	Soil
Tributylphosphate	36-152%	36-152%
Triphenylphosphate	40-152%	40-152%

Base/Neutral/Acid Organics
Method 625/8270
Surrogate Recovery Limits

	Water	Soil
Nitrobenzene-d5	35-114%	23-120%
2-Fluorobiphenyl	43-116%	30-115%
4-Terphenyl-d14	33-141%	18-137%
Phenol-d6	10-94%	24-113%
2-Fluorophenol	21-100%	25-121%
2,4,6-Tribromophenol	10-123%	19-122%

Matrix Spike/Matrix Spike Duplicate Recovery & RPD Limits

	Water Recovery	RPD	Soil Recovery	RPD
Phenol	12-110%	42	26-90%	35
2-Chlorophenol	27-123%	40	25-102%	50
1,4-Dichlorobenzene	36-97%	28	28-104%	27
N-Nitroso-di-n-propylamine	41-116%	38	41-126%	38
1,2,4-Trichlorobenzene	39-98%	28	38-107%	23
4-Chloro-3-methylphenol	23-97%	42	26-103%	33
Acenaphthene	46-118%	31	31-137%	19
4-Nitrophenol	10-80%	50	11-114%	50
2,4-Dintrotoluene	24-96%	38	28-89%	47
Pentachlorophenol	9-103%	50	17-109%	47
Pyrene	26-127%	31	35-142%	36

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 10/10/95

(1) EPA 600/4-79-020, Methods for Chemical Analysis of Water and Wastes, March 1983

(2) EPA SW-846, Test Methods for Evaluating Solid Waste, Third Edition, 1989

(3) Standard Methods for The Examination of Water and Wastewater, 17th Edition, 1989

(4) EPA 600/4-80-032, Prescribed Procedures For Measurement Of Radioactivity In Drinking Water, August 1980

(5) EPA 600/8-78-017, Microbiological Methods For Monitoring The Environment, December 1978

(6) Federal Register, July 1, 1990 (40 CFR Part 136)

(7) EPA 600/4-88-03, Methods For The Determination of Organics Compounds in Drinking Water, December 1988

(8) U.S.G.S. Methods For Determination of Inorganic Substances In Water And Fluvial Sediments, Book 5, Chapter A1, 1985

(9) Federal Register, Friday, June 7, 1991 (40 CFR Parts 141 & 142)

(10) Standard Methods For The Examination of Water and Wastewater, 16th Edition, 1985

(11) ASTM, Section 11 Water and Environmental Technology, Volume 11.01 Water (1), 1991

(12) Methods of Soil Analysis, American Society of Agronomy, Agronomy No. 9, 1965

(13) EPA SW-846, Test Methods For Evaluating Solid Waste, Third Edition, Revision 1, November 1990

(14) ASTM, Section 5, Petroleum Products, Lubricants, and Fossil Fuels, Volume 05.05, Gaseous Fuels, Coal, and Coke

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 10/10/95

(15) EPA 600/2-78-054, Field and Laboratory Methods Applicable To Overburdens and Mine Soils, March 1978

(16) ASTM, Part 19, Soils and Rocks; Building Stones, 1981

Comments: Data in the QA report may differ from final results due to digestion and/or dilution of sample into analytical ranges. The "Time Analyzed" in the QA report refers to the start time of the analytical batch which may not reflect the actual time of each analysis. The "Date Analyzed" is the actual date of analysis. Results for soil and sludge samples are reported on a wet weight basis (i.e. not corrected for percent moisture) unless otherwise indicated.

NC = Not Calculable Due to Value(s) lower than the Detection Limit.

BLANK QC SAMPLE IDENTIFICATION

MB	Method Blank
ICB	Initial Calibration Blank
CCB	Continuing Calibration Blank

SPIKE QC SAMPLE IDENTIFICATION

MS	Method (Matrix) Spike
MSD	Method (Matrix) Spike Duplicate
PDS	Post Digestion Spike
SB	Spiked Blank
SBD	Spike Blank Duplicate

REFERENCE STANDARD QC SAMPLE IDENTIFICATION

LCS	Laboratory Control Standard
RS	Reference Standard
ICV	Initial Calibration Verification Standard
CCV	Continuing Calibration Verification Standard
ISA/ISB	ICP Interface Check Sample
ICL	Initial Calibration/Laboratory Control Sample
DSC	Distilled Standard Check

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

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DUPLICATE QC SAMPLE IDENTIFICATION

MD	Method (Matrix) Duplicate
ED	Extraction Duplicate
DD	Digestion Duplicate

Analyses performed by a subcontract laboratory are indicated on the analytical and/or quality control reports under "technician" using the following codes:

SUBCONTRACT LABORATORY	CODE
Core Laboratories - Anaheim, CA	* AN
Core Laboratories - Casper, WY	* CA
Core Laboratories - Corpus Christi, TX	* CC
Core Laboratories - Houston, TX	* HP
Core Laboratories - Lake Charles, LA	* LC
Core Laboratories - Long Beach, CA	* LB
Other Subcontract Laboratories	* XX

EXPLANATION OF DATA FLAGS

B - This flag is used to indicate that an analyte is present in the method blank as well as in the sample. It indicates that the client should consider this when evaluating the results.

D - This flag indicates that surrogates were diluted out of calibration range and cannot be quantified.

E - Indicates that a sample result is an estimate because the concentration exceeded the calibration range of the instrument.

I - Used to indicate matrix interference.

J - Indicates that a value is an estimate. It is used when a compound is determined to be present based on the mass spectral data, but at a concentration less than the practical quantitation limit of the method. This flag is also used when estimating the concentration of a tentatively identified compound.

X - Indicates that a surrogate recovery is outside the specified quality control limits.

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 10/10/95

Y - Used to identify a spike or spike duplicate recovery that is outside the specified quality control limits.

Z - Indicates a relative percent difference for a spike and spike duplicate is outside the specified quality control limits.

* - Indicates a relative percent difference for a duplicate analysis is outside the specified quality control limits.

^ - Used to indicate that a standard is outside specified quality control limits.