GW - 52

# GENERAL CORRESPONDENCE

YEAR(S): 2006-196

# Transwestern APR 20 PM 12 54

April 13, 2006

**UPS** Confirmation No.

1Z 875 525 03 4472 4946

6381 North Main Street

505.625.8022 Fax: 505.627.8172

Division Environmental Specialist

Roswell, NM 88201

Larry Campbell

Mr. Ed Martin Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87504

Dear Mr. Martin:

Re:

By this letter, Transwestern Pipeline Company is providing written notification to the Oil Conservation Division that the annual sump inspections will be completed for the following facilities on the following dates:

Notification of Annual Sump Inspections, Transwestern Pipeline Company

Station 8 Corona GW-89	5/8/06
Station 9 Roswell GW-52	5/9/06
P-1 Compressor Station GW-90	5/10/06
Wt-1 Compressor Station GW-80	5/10/06

Submittal of this letter complies with the notification requirements as presented in each facilities Discharge Plan.

Should your agency require additional information concerning this written notification, contact the undersigned at our Roswell Technical Operations office at (505) 625-8022.

Sincerely,

Larry Campbell

Division Environmental Specialist

xc:

Roswell Compressor Station Corona Compressor Station P-1 Compressor Station Wt-1 Compressor Station

Envisions file no.

205.1.20



2006 JAN 33 AM 8 06

6381 North Main Street Roswell, NM 88201

505.625.8022 Fax: 505.627.8172

**Larry Campbell**Division Environmental Specialist

January 27, 2006

Mr. Roger Anderson
Oil Conservation Division
1220 S. St. Francis Dr.
Santa Fe, New Mexico 87505

Re:

Discharge Plan Renewal and Filing Fee, Transwestern Pipeline Company,

Compressor Station No. 9, Roswell, OCD Discharge Plan GW 052

Dear Mr. Anderson:

Enclosed find check no. 8000003818 in the amount of \$1800.00 issued by Transwestern Pipeline Company to cover the required renewal and filing fee for the above referenced facility's OCD Discharge Plan.

Should you require additional information concerning this submittal, contact the undersigned at our Roswell Technical Operations office at (505) 625-8022.

Sincerely,

Larry Campbell

Division Environmental Specialist

Xc:

envisions file no.

205.1.20

Roswell Team

## THE SANTA FE MEXICAN Founded 1849

RECEIVED

OIL CONSERVATION

NM OIL CONSERVATION DEPT.

ATTU: Ed Martin 1220 ST. FRANCIS DR ATT MARY ANAYA

SANTA FE NM 87505

ALTERNATE ACCOUNT: 56689

AD NUMBER: 00147277 ACCOUNT: 00002212

LEGAL NO: 78023 P.O. #:

P.O. #: 06-199-050125

312 LINES 1 TIME(S)

174.72

AFFIDAVIT:

5.50

TAX:

13.63

TOTAL:

193.85

#### AFFIDAVIT OF PUBLICATION

### STATE OF NEW MEXICO COUNTY OF SANTA FE

I, R. Lara, being first duly sworn declare and say that I am Legal Advertising Representative of THE SANTA FE NEW MEXICAN, a daily newspaper published in the English language, and having a general circulation in the Counties of Santa Fe and Los Alamos, State of New Mexico and being a newspaper duly qualified to publish legal notices and advertisements under the provisions of Chapter 167 on Session Laws of 1937; that the publication #78023 a copy of which is hereto attached was published in said newspaper 1 day(s) between 11/22/2005 and 11/22/2005 and that the notice was published in the newspaper proper and not in any supplement; the first date of publication being on the 22nd day of November, 2005 and that the undersigned has personal knowledge of the matter and things set forth in this affidavit.

Subscribed and sworn to before me on this 22nd day of November, 2005

Notary Same 2. Harding

Commission Expires:

11/03/07



### NOTICE OF PUBLICATION

STATE OF NEW
MEXICO
ENERGY, MINERALS
AND NATURAL
RESOURCES
DEPARTMENT
OIL CONSERVATION
DIVISION

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following discharge plan renewal application has been submitted to the Director of the Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, New Mexico 87505, Telephone (505) 476-3440:

(GW-235) - Mr. Jerry Tuffy, BASIC ENERGY SERVICES (formerly Energy 6121 US American Services), 6121 US Highway 64, Bloom-field, New Mexico field, New Mexico 87499 has submitted an application for their BLOOMFIELD SERVICE CENTER lo-SERVICE CENTER lo-cated in the NW/4 of Section 30, Township 29 North, Range 11 West, San Juan County, New Mexico. All effluents that may be generated at the facility will be collected in closed top receptacles and transported off-site for disposal at an OCD facility. approved' Groundwater most likely to be affected by a spill, leak, or accidental discharge to the surface is at a depth of approxi-mately 10 feet with a total dissolved solids concentration of approximately 200 mg/L. The discharge permit addresses how oilfield products waste will be properly handled, stored and disposed of, including how spills, leaks, and other accidental discharges to the surface will be managed. OCD proposed conditions can be viewed http://www.emnrd.st ate.nm.us/emnrd/ocd /ENV-

<u>DraftPublicEtc.</u>htm in the Draft Discharge Permit for this facility.

(GW-052) Transwestern Pipeline Company, Mr. Larry Campbell, Division Environmental Scientist, 6381 North Main, Roswell, New Mexico 88201, has submitted a renewal application for the previously ap-

discharge proved olan for their Roswell Compressor Station, located in the SW/4 SW/4 of Section 21, Township 9 South, Range 24 East, NMPM, Chaves County, New Mexico. Approxi-mately 1000 gallons per day of wastewa-ter will be transferred an offsite stock-watering tank. The wastewater has a total dissolved solids concentration about 1250 mg/l. Groundwater most likely to be affected by a spill, leak or acci-dental discharge to the surface is at a depth of approxidepth of approxi-mately 240 feet with a total dissolved solids concentration of approximately 1551 mg/l. The discharge plan addresses how spills, leaks and other accidental discharges to the surface will be The OCD conditions managed. proposed can be viewed at <a href="http://www.emnrd.st">http://www.emnrd.st</a> ate.nm.us/emnrd/ocd

<u>DraftPublicEtc.</u>htm in the Draft Discharge Permit for this facility.

Any interested person may obtain further in-formation from the Oil Conservation Divísion and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application may be viewed at above address between 8:00 a.m. and 4:00 p.m., Monday through Friday. Prior to ruling on any pro-posed discharge plan or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publica-tion of this notice during which comments may be submitted to him and public hearing may be requested by any interested person. Requests for public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public in-

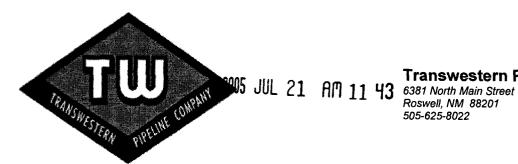
If no public hearing is held, the Director will approve or disapprove the proposed plan based on information available. If a public hearing is held, the director will approve or disapprove the proposed plan based on information in the plan and information submitted at the hearing.

GIVEN under the of New Mexico Conservation Commission at Santa Fe, New Mexico, on this 17th day of November 2005.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

SEAL

MARK FEISMIER, P.E., Director Legal #78023 Pub. November 22, 2005



Transwestern Pipeline Company

Roswell, NM 88201 505-625-8022

July 18, 2005

**UPS** Confirmation No.

1Z8755250345392991

Mr. Ed Martin Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

Re:

Renewal of Groundwater Discharge Plan GW-052, Transwestern Pipeline Company,

Roswell Compressor Station

Dear Mr. Martin:

Transwestern Pipeline Company, owner and operator of the Roswell Compressor Station, requests renewal by the Oil Conservation Division (OCD) of discharge plan GW-052 for the above referenced facility.

Be advised that there have been no new modifications or alterations performed or constructed at this location which would differ from those originally covered under the original discharge plan application submitted on May 15, 1989, and operating practices currently at the facility reflect operating practices which were presented in the original application.

Should you require any additional information concerning this renewal request, contact the undersigned at our Roswell Technical Operations office at (505) 625-8022.

Sincerely,

Larry Campbell

Division Environmental Specialist

xc:

envisions file no.

205.1.20

Roswell Team

file



#### **Transwestern Pipeline Company**

6381 North Main Street Roswell, NM 88201 505-625-8022

June 20, 2005

UPS Confirmation No. 1Z8755250340567490

Mr. Ed Martin
Oil Conservation Division
1220 St. Francis Dr.
Santa Fe, NM 87504

Re: Underground Drain Line Testing, Roswell Compressor Station No. 9, Transwestern

Pipeline Company, OCD Discharge Plan No. GW-52

#### Dear Mr.Martin:

The following report presents the results of the underground drain line testing at the Transwestern Pipeline Company (Transwestern) Compressor Station # 9 Roswell, New Mexico. This station is currently operating under OCD discharge plan GW- 52, which requires drain line testing to be conducted on all underground drain lines once every five years. The testing program was conducted using the methodology submitted by letter on July 8, 1997 to the OCD, which was then approved by the agency on July 16, 1997.

#### **METHODOLOGY**

The testing program was initiated on May 27, 2005. The following drain line systems at the facility were hydrostatically tested:

Drain Line System	Length of	of Line (ft.) Size of pipe (in.)
West Texas Pig Receiver sump to PLL(2) Tank	195	2.0
Mist Extractor to PLL(2) Tank	63	2.0
Comp. Bldg. to OWW(1) Sump	426	4" drain lines to 8" header
Comp. Bldg. OWW(1) Sump to OWW(1) Tank	1,230	2.0
Wash Bay to West Texas Pig Trap Sump	90	4.0
PLL(2) Tank to Truck Loading Point	111	4.0
OWW(1) Tank to Truck Loading Point	111	4.0
Selexol Sump to Selexol OWW(1) Tank	105	2.0

Scrubber dump to Selexol PLL(2) Tank	100	2.0
Comp. Bldg. to used oil tank	240	2.0
Electric oil pump to used oil tank	60	2.0
Ambitrol tank to Comp. Bldg.	324	2.0
Panhandle 24" Pig Receiver sump to OWW(1)	375	2.0
Gear oil tank to Comp. Bldg.	324	2.0
New lube oil tank to Comp. Bldg.	324	2.5
Scrubber Dumps and Pig Receiver		
Lines to Mist Extractor	1,500	1", 2" 3" and 4"
		lines all connected

(1)Oily Waste Water (2) Pipe Line Liquids

NOTE: Length of lines are approximated

For each drain line tested, the following methodology was employed. A test header was constructed by isolating each drain line and attaching and sealing a 90 degree elbow of the same pipe diameter to one of the two drain pipe ends. A seven (7) ft vertical pipe of the same pipe diameter was attached and sealed to the exposed vertical end of the 90 degree elbow. At the horizontal terminal end of the exposed drain pipe a test plug was temporarily inserted and sealed. The drain line and attached test header were then filled with water to a marked level on the vertical pipe of 6.95 ft. above the horizontal elevation of the drain line. This water level head created a positive pressure of 3.0 psi on the existing piping system. This pressure was then allowed to equilibrate in the line and standpipe and the test was conducted for a period of thirty minutes to determine water loss in the line. Any water leakage will be indicated by a drop in the water level of the vertical standpipe below the 6.95 ft mark.

#### RESULTS AND CONCLUSIONS

All drain lines referenced in the medhodology section were tested according to the methodology presented above. For every underground process and wastewater line, there were no instances where the water level in the vertical standpipe receded below the water level mark of 6.95 ft. Based upon the results of this study, Transwestern concludes that the integrity of the underground drain line systems at this facility are intact and that no further actions are required on these lines.

Should you desire additional information concerning this testing procedure or report, please contact me at our Roswell Technical Operations office at (505) 625-8022.

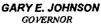
Sincerely,

Larry Campbell

Division Environmental Speciaslist

Xc: envisions file no. 205.2.20 Roswell Compresso Station





## State of New Mexico VIRONMENT DEPARTMENT

Hazardous Waste Bureau
2905 Rodeo Park Drive East, Building 1
Santa Fe, New Mexico 87505-6303
Telephone (505) 428-2500
Fax (505) 428-2567

www.nmenv.state.nm.us



PETER MAGGIORE SECRETARY

CN-067

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

November 5, 2001

Mr. Larry Campbell Transwestern Pipeline Company 6381 North Main Street Roswell, New Mexico 88201

SUBJECT: WORK PLAN FOR EXCAVATION OF AFFECTED SOIL

ROSWELL COMPRESSOR STATION, EPA ID# NMD986676955

HWB-TWP-01-001

Attention: Mr. Larry Campbell

The New Mexico Environment Department Hazardous Waste Bureau (HWB) has completed a review of Transwestern Pipeline Company's submittal "Work Plan for Excavation of Affected Soil in the Former Surface Impoundment Areas" dated July 2, 2001. The work plan addresses the results of the characterization of waste and contaminated soil at the location of the closed surface impoundments and the removal of the surface impoundments at the Transwestern Pipeline Company Compressor Station Number 9 (EPA ID# NMD986676955) located in Roswell, New Mexico. Based on the information provided in the work plan, HWB approves of the proposed excavation and remediation activities. The approval is conditional upon approval of the work plan by the New Mexico Department of Energy, Minerals and Natural Resources Oil Conservation Division. Please call this office at (505) 248-2553 if you have questions regarding the conditional approval of the Work Plan.

Sincerely,

Dave Cobrain

Geologist

Permits Management Program

**DWC** 

Transwestern Pipeline Company November 5, 2001 Page 2

CC:

James Bearzi, NMED HWB

John Kieling, NMED HWB

William Kendrick, Transwestern Pipeline Company

Bill Olson, NMOCD Ed Martin, NMOCD

George Robinson, Cypress Engineering Services, Inc.

Pam Allen, NMED HWB

file:

red/TWP/01

track:

TWP/Campbell/Cobrain/11-05-01/approval work plan surface impoundments soil excavation



## NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

#### BILL RICHARDSON

Governor
Joanna Prukop
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

September 11, 2003

Mr. Bill Kendrick Transwestern Pipeline Company 1400 Smith Street Houston, Texas 77002

RE: CASE # GW052R

ROSWELL COMPRESSOR STATION

**ROSWELL, NEW MEXICO** 

Dear Mr. Kendrick:

The New Mexico Oil Conservation Division has reviewed Transwestern Pipeline Company's (TPC) September 3, 2003 "PROPOSAL FOR INSTALLATION OF THREE ADDITIONAL MONITOR WELLS, ROSWELL COMPRESSOR STATION, TRANSWESTERN PIPELINE COMPANY". This document contains TPC's proposed work plan for additional monitor wells to determine the extent of ground water contamination related to the TPC Roswell Compressor Station.

The above-referenced work plan is approved with the following conditions:

- 1. The ground water monitor wells shall be constructed and sampled in accordance with the OCD's prior work plan approvals.
- 2. TPC shall notify the OCD at least 1 week in advance of the scheduled activities such that the OCD has the opportunity to witness the events and split samples.
- 3. The investigation results shall be included in the subsequent annual ground water monitoring report.

Please be advised that OCD approval does not limit TPC to the above-referenced work plan if the investigation activities fail to adequately determine the extent of contamination related to TPC's activities, or if contamination exists which is outside the scope of the work plan. In addition, OCD approval does not relieve TPC of responsibility for compliance with any other federal, state or local laws and regulations.

Mr. Bill Kendrick September 11, 2003 Page 2

If you have any questions, please contact me at (505) 476-3491.

Sincerely,

William C. Olson

Hydrologist

Environmental Bureau

xc: Tim Gum, OCD Artesia Office

Cody Morrow, NM State Land Office

George Robinson, Cypress Engineering Services, Inc.

Dave Cobrain, NMED Hazardous Waste Bureau

Transwestern Pipeline Company 1400 Smith Street Houston, TX 77002 713-853-6161

September 3, 2003

Mr. William C. Olson Environmental Bureau New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505 RECEIVED

SEP 0 8 2003

OIL CONSERVATION

DIVISION

RE: Proposal for Installation of Three Additional Monitor Wells

Roswell Compressor Station Transwestern Pipeline Company

Transwestern Pipeline Company proposes to install 3 additional groundwater monitor wells in an effort to complete delineation of the downgradient extent of affected groundwater. Presently, the lateral extent of affected groundwater has been defined in all directions except to the south. The locations for the proposed wells are indicated in the attached site diagram. Drilling activities are tentatively scheduled for the week of September 29, 2003.

If you have any questions or comments regarding the proposed activities, please contact George Robinson at (713) 345-1537 or you can contact me at (713) 646-7644.

Sincerely,

Bill Kendrick

Director Environmental Affairs Transwestern Pipeline Company

Bill Kenduck

xc w/attachments:

Larry Campbell George Robinson

Tim Gum

Transwestern Pipeline Co.

Cypress Engineering

OCD Artesia Office

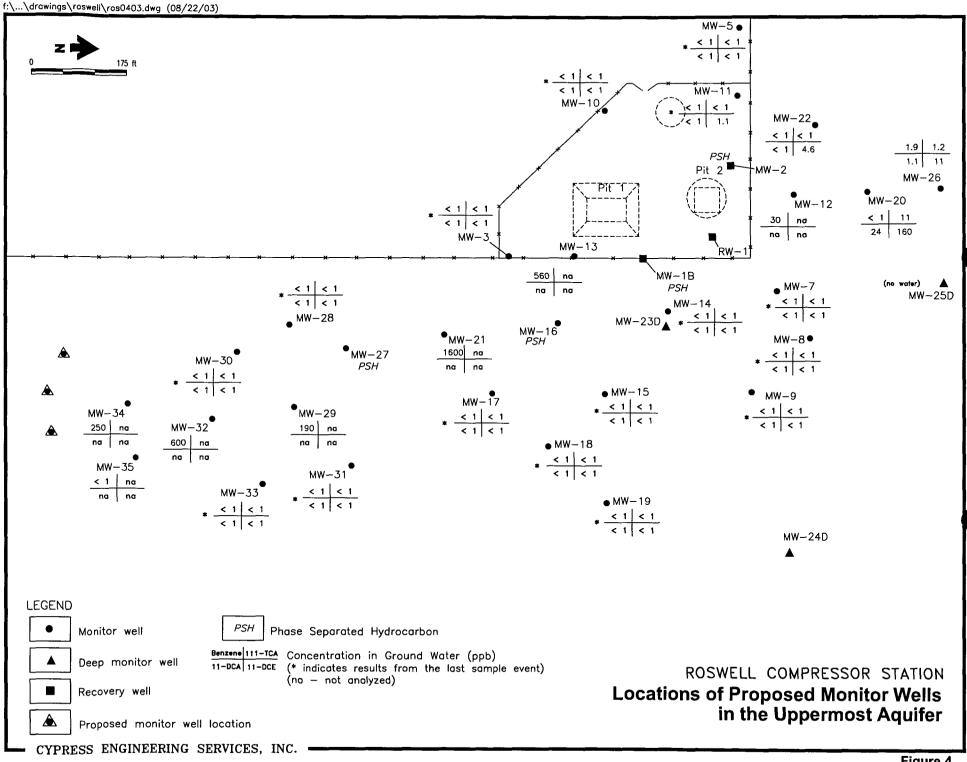


Figure 4

Transwestern Pipeline Company 1400 Smith Street Houston, TX 77002 713-853-6161

June 30, 2003

Mr. William C. Olson Environmental Bureau New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505 RECEIVED

ელ 0 3 2003

ENVIRONMENTAL BUREAU OIL CONSERVATION DIVISION

RE:

Final Remedial Design

Roswell Compressor Station Chavez County, New Mexico

Enclosed is one copy of the Final Remedial Design for groundwater remediation activities at the Roswell Station.

If you have any questions or comments regarding this transmittal, please contact George Robinson at (713) 345-1537 or you can contact me at (713) 646-7644.

Sincerely,

Bill Kendrick

Senior Director Environmental Affairs

Bill Kendul

Transwestern Pipeline Company

xc w/o enclosures:

Larry Campbell

Transwestern Pipeline Co.

George Robinson

Cypress Engineering

Transwerrn Pipeline Company
1400 Smith Street
Houston, TX 77002
713-853-6161

May 15, 2003

Mr. William C. Olson Environmental Bureau New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Mr. David Cobrain Hazardous Waste Bureau New Mexico Environment Department 2905 Rodeo Park Dr. East, Bldg. 1 Santa Fe, New Mexico 87505

RE: Soil Excavation and Removal Report Roswell Compressor Station Transwestern Pipeline Company NMOCD Case # GW052R RECEIVED

MAY 2 0 2003

ENVIRONMENTAL BUREAU
C'L CONSERVATION DIVISION

This report has been prepared to document completion of soil removal activities at the Transwestern Pipeline Company (TW) Roswell Compressor Station. Soil removal activities were completed in accordance with the "Work Plan for Excavation and Removal of Affected Soil in the Former Surface Impoundment Areas" dated October 18, 2001. This work plan had been approved by both the NMOCD and the NMED.

Soil removal activities were initiated on February 25, 2002 and were completed on March 11, 2002. There were no significant deviations from the approved work plan. In the course of the removal, a total of 3520 cubic yards of soil was transported to the Gandy Marley landfarm facility located near Tatum, New Mexico. An additional 576 cubic yards of debris removed from the area was transported to the Controlled Recovery Inc. landfill facility located West of Hobbs, New Mexico.

Subsequent to soil removal, the sidewalls of the two excavations were sloped back and soil samples were collected from the exposed bottom and sidewalls of the excavations as described in the work plan. The soil sample locations are indicated on the attached figures, Figure 1 and Figure 2. Laboratory results for the bottom and sidewall samples are presented in the attached tables, Table 1 and Table 2. Lab results for Total TPH are also posted on Figure 1 and Figure 2. Sidewall sample results indicate that the lateral extent of the excavations successfully removed near surface affected soil to an acceptable level. Bottom sample results indicate that the vertical extent of the excavations successfully removed the most heavily affected soil. Affected soil below the depth of the excavations will be addressed by soil vapor extraction in the course of additional soil and groundwater remediation activities.

Subsequent to collection of bottom and sidewall soil samples, the bottom of the excavation areas were prepared to facilitate the placement of a plastic liner at the bottom of each area. A 30mil polyethylene liner measuring 60 feet by 90 feet was placed at the bottom of the former Pit 1 area. A 30mil polyethylene liner measuring 65 feet by 70 feet was placed at the bottom of the former Pit 2 area.

Subsequent to placement of the plastic liners, the excavations were backfilled. Blended soil was utilized first for backfill material. The blended soil originated from less affected soil removed from above and around the perimeter of the former pit areas. Soil samples of blended soil were collected in accordance with the work plan. Laboratory results for blended soil samples are presented in Table 3 and Table 4. Soil samples from four blended soil piles indicated a TPH concentration greater than 1000 mg/kg. In each case, the soil was blended further and retested until results indicated a TPH concentration less than 1000 mg/kg. Clean soil from off-site was utilized to complete the backfilling of the excavations in accordance with the work plan. Soil samples of the backfill soil from off-site were collected in accordance with the work plan. Laboratory results for these soil samples are presented in Table 5.

Electronic copies of all laboratory reports are provided in pdf format on the attached CD. Selected photos of the removal activities are also attached.

If there are any questions or comments regarding the excavation and removal activities or this report, please contact me at (713) 646-7644 or George Robinson at (713) 345-1537.

Sincerely,

Bill Kendrick

Director, Environmental Affairs

Ell Kendul

#### Attachments:

Figure 1 – Pit 1 Area Excavation Samples

Figure 2 – Pit 2 Area Excavation Samples

Table 1 – Summary of Analytical Results for Pit 1 Excavation Bottom and Sidewall Soil Samples

Table 2 – Summary of Analytical Results for Pit 2 Excavation Bottom and Sidewall Soil Samples

Table 3 – Summary of Analytical Results for Pit 1 Excavation Blended Soil Samples

Table 4 – Summary of Analytical Results for Pit 2 Excavation Blended Soil Samples

Table 5 – Summary of Analytical Results for Pit 1 and Pit 2 Backfill Soil Samples

xc: (with attachments)

Larry Campbell

Transwestern Pipeline Company

George Robinson

Cypress Engineering

Bryan Arrant

NMOCD Artesia District Office

#### Explanation

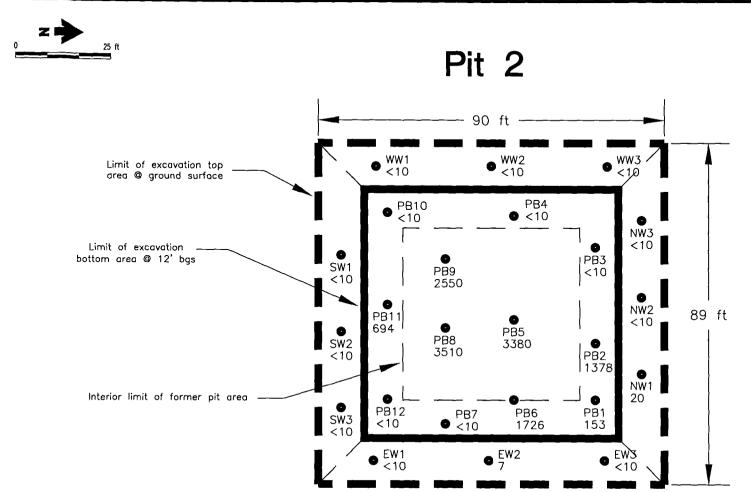
Excavation Sample Location
Total TPH (GRO+DRO)

ROSWELL COMPRESSOR STATION

Pit 1 Area Excavation Samples

CYPRESS ENGINEERING SERVICES, INC.

Figure 1



#### Explanation

• Excavation Sample Location Total TPH (GRO+DRO)

ROSWELL COMPRESSOR STATION

Pit 2 Area Excavation Samples

CYPRESS ENGINEERING SERVICES, INC.

Table 1. Summary of Analytical Results for Pit 1 Excavation Bottom and Sidewall Soil Samples Compressor Station No. 9 - Roswell, NM

			TPH (mg/kg)										VOCs (ug/kg)								
Sample ID	Sampling Date	GRO	DRO	Total (GRO+DRO)	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	1,4 Dioxane	2-Butanone (MEK)	Acetone	isopropylbenzene	n-Propylbenzene	Naphthalene	p-Isopropyltoluene	sec-Butylbenzene	Tetrachloroethene	Trichloroethene	Benzene	Toluene	Ethylbenzene	Xylenes
Pit#1 - PB-1	03/06/02	85.8	299	385	<25	438	281	<500	<50	<250	<25	46.1	117	<25	<25	<25	<25	<20	126	79.5	704
Pit #1 - PB-2	03/06/02	198	273	471	<25	981	648	<500	<50	<250	42.6	105	285	35.3	32.8	41	<25	<20	224	214	1856
Pit #1 - PB-3	03/06/02	426	435	861	<50	2110	1290	<1000	<100	<500	53.8	263	541	<50	<50	897	<50	35.5	914	323	3254
Pit #1 - PB-4	03/06/02	68.4	421	489	<10	423	275	<200	<20	141	<10	30.3	231	12.7	12.3	18.4	<10	<20	125	75.1	700
Pit #1 - PB-5	03/06/02	697	830	1527	<100	2430	1490	<2000	<200	1880	114	301	888	144	134	718	<100	174	2060	524	4880
Pit #1 - PB-6	03/06/02	621	642	1263	509	3000	1720	<2000	<200	<1000	217	430	944	200	167	1420	<100	429	3550	812	7060
Pit #1 - PB-7	03/06/02	503	1120	1623	<50	1370	857	1630	<100	614	77.1	215	426	62.6	66.5	87.6	<50	73.8	1240	493	3748
Pit #1 - PB-8	03/06/02	494	990	1484	<50	2260	1310	2070	<100	710	96	301	615	114	107	692	<50	49.9	1470	262	2529
Pit #1 - PB-9	03/06/02	469	454	923	247	2290	1600	<1000	<100	757	137	354	445	118	125	503	<50	81.6	1750	323	3221
Pit #1 - PB-10	03/06/02	366	444	810	<50	1070	712	<1000	<100	599	<50	61.8	269	<50	<50	53.9	<50	34.8	956	215	1989
Pit #1 - PB-11	03/06/02	301	855	1156	<100	2900	1850	<2000	<200	<1000	265	461	575	180	201	140	<100	<20	1140	585	4880
Pit #1 - PB-12	03/06/02	798	1170	1968	460	4530	2670	<2000	508	2740	460	799	2390	274	307	339	<100	423	4460	1140	8690
Pit #1 - NW-1	03/06/02	<5	<5	<10	<5	<5	<5	<100	<10	<50	<5	<5	<5	<5	<5	<5	<5	<20	<20	<20	<20
Pit #1 - NW-2	03/06/02	<5	<5	<10	<5	<5	<5	<100	<10	<50	<5	<5	<5	<5	<5	<5	<5	<20	<20	<20	<20
Pit #1 - NW-3	03/06/02	9.3	26.7	36	<5	<5	7.85	<100	<10	<50	<5	<5	7.18	<5	<5	<5	<5	<20	<20	<20	<20
Pit #1 - EW-1	03/06/02	<5	<5	<10	<5	<5	<5	<100	<10	<50	<5	<5	<5	<5	<5	<5	<5	<20	<20	<20	<20
Pit #1 - EW-2	03/06/02	<5	<5	<10	<5	<5	<5	<100	<10	<50	<5	<5	<5	<5	<5	<5	<5	<20	<20	<20	<20
Pit #1 - EW-3	03/06/02	<5	<5	<10	<5	<5	<5	<100	<10	<50	<5	<5	<5	<5	<5	<5	<5	<20	<20	<20	<20
Pit #1 - SW-1	03/06/02	<5	<5	<10	<5	<5	<5	<100	<10	<50	<5	<5	<5	<5	<5	<5	<5	<20	<20	<20	<20
Pit #1 - SW-2	03/06/02	26.7	101	128	<5	50.1	31.8	<100	<10	<50	<5	<5	24.3	<5	<5	<5	<5	<20	<20	<20	33.7
Pit #1 - SW-3	03/06/02	<5	<5	<10	<5	<5	<5	<100	<10	<50	<5	<5	<5	<5	<5	<5	<5	<20	<20	<20	<20
Pit #1 - WW-1	03/06/02	<5	<5	<10	<5	<5	<5	<100	<10	<50	<5	<5	<5	<5	<5	<5	<5	<20	<20	<20	<20
Pit #1 - WW-2	03/06/02	<5	<5	<10	<5	<5	<5	<100	<10	<50	<5	<5	<5	<5	<5	<5	<5	<20	<20	<20	<20
Pit #1 - WW-3	03/06/02	<5	<5	<10	<5	<5	<5	<100	<10	<50	<5	<5	<5	<5	<5	<5	<5	<20	<20	<20	<20

Table 2. Summary of Analytical Results for Pit 2 Excavation Bottom and Sidewall Soil Samples
Compressor Station No. 9 - Roswell, NM

			TPH (mg/kg)										VOCs (ug/kg)								
Sample ID	Sampling Date	GRO	DRO	Total (GRO+DRO)	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	1,4 Dioxane	2-Butanone (MEK)	Acetone	Isopropylbenzene	n-Propylbenzene	Naphthalene	p-Isopropyltoluene	sec-Butylbenzene	Tetrachloroethene	Trichloroethene	Вепzепе	Toluene	Ethylbenzene	Xylenes
Pit #2 - PB-1	03/12/02	8.3	145	153	<5	<5	<5	<100	<10	<50	<5	<5	<5	<5	<5	<5	<5	<20	<20	<20	<20
Pit #2 - PB-2	03/12/02	844	534	1378	<200	1440	1640	<4000	<400	<2000	<200	<200	374	234	<200	<200	<200	<20	<20	54.7	574
Pit #2 - PB-3	03/12/02	<5	<5	<10	<5	<5	<5	<100	<10	<50	<5	<5	<5	<5	<5	<5	<5	<20	<20	<20	<20
Pit #2 - PB-4	03/12/02	<5	<5	<10	<5	<5	<5	<100	<10	<50	<5	<b>&lt;</b> 5	<5	<5	<b>&lt;</b> 5	<5	<5	<20	<20	<20	<20
Pit #2 - PB-5	03/12/02	2290	1090	3380	<1000	8750	5280	<20000	<2000	<10000	<1000	1270	1060	<1000	<1000	<1000	<1000	43.4	536	1140	11530
Pit #2 - PB-6	03/12/02	1050	676	1726	<1000	5050	4090	<20000	<2000	<10000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<20	<20	408	4052
Pit #2 - PB-7	03/12/02	<5	<5	<10	<5	<5	<5	<100	<10	<50	<5	<5	<5	<5	<5	<5	<5	<20	<20	<20	<20
Pit #2 - PB-8	03/12/02	2050	1460	3510	<1000	6560	3980	<20000	<2000	<10000	<1000	<1000	1110	<1000	<1000	<1000	<1000	<20	46.4	927	7700
Pit #2 - PB-9	03/12/02	1460	1090	2550	<1000	6320	4130	<20000	<2000	<10000	<1000	<1000	1190	<1000	<1000	<1000	<1000	<20	128	780	8830
Pit #2 - PB-10	03/12/02	<5	<5	<10	<5	<5	<5	<100	<10	<50	<5	<5	<5	<5	<5	<5	<5	<20	<20	<20	<20
Pit #2 - PB-11	03/12/02	371	323	694	<100	1090	1210	<2000	<200	<1000	<100	<100	144	433	<100	<100	<100	<20	<20	36.1	325
Pit #2 - PB-12	03/12/02	<5	<5	<10	<5	<5	<5	<100	<10	<50	<5	<5	<5	<5	<5	<5	<5	<20	<20	<20	<20
Pit #2 - NW-1	03/12/02	6.5	13.7	20	<5	<5	<5	<100	<10	<50	<5	<5	<5	<5	<5	<5	<5	<20	<20	<20	<20
Pit #2 - NW-2	03/12/02	<5	<5	<10	<5	<5	<5	<100	<10	<50	<5	<5	<5	<5	<5	<5	<5	<20	<20	<20	<20
Pit #2 - NW-3	03/12/02	<5	<5	<10	<5	<5	<5	<100	<10	<50	<5	<5	<5	<5	<5	<5	<5	<20	<20	<20	<20
Pit #2 - EW-1	03/12/02	<5	<5	<10	<5	<5	<5	<100	<10	<50	<5	<5	<5	<5	<5	<5	<5	<20	<20	<20	<20
Pit #2 - EW-2	03/12/02	<5	6.8	6.8	<5	<5	<5	<100	<10	<50	<5	<5	<5	<5	<5	<5	<5	<20	<20	<20	<20
Pit #2 - EW-3	03/12/02	<5	<5	<10	<5	<5	<5	<100	<10	<50	<5	<5	<5	<5	<5	<5	<5	<20	<20	<20	<20
Pit #2 - WW-1	03/12/02	<5	<5	<10	<5	<5	<5	<100	<10	<50	<5	<5	<5	<5	<5	<5	<5	<20	<20	<20	<20
Pit #2 - WW-2	03/12/02	<5	<5	<10	<5	<5	<5	<100	<10	<50	<5	<5	<5	<5	<5	<5	<5	<20	<20	<20	<20
Pit #2 - WW-3	03/12/02	<5	<5	<10	<5	<5	<5	<100	<10	<50	<5	<5	<5	<5	<5	<5	<5	<20	<20	<20	<20
Pit #2 - SW-1	03/12/02	<5	<5	<10	<5	<5	<5	<100	<10	<50	<5	<5	<5	<5	<5	<5	<5	<20	<20	<20	<20
Pit #2 - SW-2	03/12/02	<5	<5	<10	<5	<5	<5	<100	<10	<50	<5	<5	<5	<5	<5	<5	<5	<20	<20	<20	<20
Pit #2 - SW-3	03/12/02	<5	<5	<10	<5	<5	<5	<100	<10	<50	<5	<5	12.5	<5	<5	<5	<5	<20	<20	<20	<20

Table 3. Summary of Analytical Results for Pit 1 Excavation Blended Soil Samples Compressor Station No. 9 - Roswell, NM

			TPH (mg/kg)				VOCs (ug/kg)		
Sample ID	Sampling Date	GRO	DRO	Total (GRO+DRO)	Вепzепе	Toluene	Ethylbenzene	Xylenes	Total BTEX
	Work Plan Criteria:			1000	10000				50000
Pit #1 - SPW-1	03/04/02	32.1	247	279	<20	86.8	94.2	659	840
Pit #1 - SPW-2	03/04/02	123	874	997	<20	284	165	1268	1717
Pit #1 - SPW-3	03/04/02	90.6	637	728	<20	307	163	1301	1771
Pit #1 - SPW-4	03/04/02	178.0	190	368	<20	199	124	1068	1391
Pit #1 - SPW-5	03/04/02	97.5	674	772	<20	168	118	1029	1315
Pit #1 - SPW-6	03/04/02	34.1	283	317	<20	239	158	1363	1760
Pit #1 - SPW-7	03/04/02	48.1	334	382	<20	184	140	1252	1576
Pit #1 - SPW-8	03/04/02	33.4	258	291	<20	324	208	1805	2337
Pit #1 - SPW-9	03/04/02	54.4	332	386	<20	274	186	1555	2015
Pit #1 - SPW-10	03/04/02	112	729	841	<20	359	206	1638	2203
Pit #1 - SPW-11	03/04/02	44.2	244	288	<20	286	167	1448	1901
Pit #1 - SPW-12	03/04/02	118	600	718	<20	347	197	1694	2238
Pit #1 - SPW-13	03/04/02	133	598	731	<20	355	206	1763	2324
Pit #1 - SPW-14	03/04/02	80	293	373	<20	414	251	2065	2730
Pit #1 - SPW-15	03/04/02	50	283	333	<20	233	140	1239	1612
Pit #1 - SPW-16	03/04/02	46.9	211	258	<20	307	226	1933	2466
Pit #1 - SPN-1	03/04/02	<5 <5	<5 ~5	<10	<20	<20	<20	<20	<20
Pit #1 - SPN-2	03/04/02 03/05/02	<5 50.1	<5 249	<10 299	<20 <20	<20 89.6	<20 83.4	<20 786	<20 959
Pit #1 - SPW-17 Pit #1 - SPW-18	03/05/02	116	800	916	<20	229	132	1204	1565
Pit #1 - SPW-19	03/05/02	95.6	588	684	<20	143	84.6	777	1005
Pit #1 - SPW-20	03/05/02	103	687	790	<20	284	155	1282	1721
Pit #1 - SPW-21	03/05/02	103	737	840	<20	188	102	836	1126
Pit #1 - SPW-22	03/05/02	70.4	415	485	<20	171	98.2	850	1119
Pit #1 - SPW-23	03/05/02	69.8	386	456	<20	105	68.7	626	800
Pit #1 - SPW-24	03/05/02	76.8	459	536	<20	220	94.5	847	1162
Pit #1 - SPS-1	03/05/02	72.5	410	483	<20	138	79.9	735	953
Pit #1 - SPS-2	03/05/02	88.9	468	557	<20	135	101	954	1190
Pit #1 - SPS-3	03/05/02	97.1	537	634	<20	133	94.9	911	1139
Pit #1 - SPS-4	03/05/02	81.8	473	555	<20	114	76.1	745	935
Pit #1 - SPS-5	03/05/02	90.3	366	456	<20	244	148	1398	1790
Pit #1 - SPS-6	03/05/02	108	359	467	<20	230	164	1551	1945
Pit #1 - SPS-7	03/05/02	79.3	205	284	<20	218	171	1629	2018
Pit #1 - SPS-8	03/05/02	171	494	665	<20	246	193	1826	2265
Pit #1 - SPS-9	03/05/02	139	389	528	<20	212	154	1406	1772
Pit #1 - SPS-10	03/05/02	172	387	559	<20	367	276	2648	3291
Pit #1 - SPS-11	03/05/02	282	635	917	<20	319	275	2671	3265
Pit #1 - SPS-12 Pit #1 - SPS-13	03/05/02 03/05/02	368 289	915 640	1283 929	<20 <20	387 248	300 228	2911 2247	3598 2723
Pit #1 - SPS-14	03/05/02	276	789	1065	<20	277	247	2481	3005
Pit #1 - SPS-15	03/05/02	161	519	680	<20	220	200	1948	2368
Pit #1 - SPS-16	03/05/02	106	616	722	<20	198	98.9	911	1208
Pit #1 - SPS-17	03/05/02	110	597	707	<20	240	106	977	1323
Pit #1 - SPS-18	03/05/02	57.5	164	222	<20	237	132	1279	1648
Pit #1 - SPS-19	03/05/02	258	874	1132	<20	306	222	2059	2587
Pit #1 - SPS-20	03/05/02	250	653	903	<20	432	254	2322	3008
Pit #1 - SPS-21	03/05/02	176	411	587	<20	363	247	2319	2929
Pit #1 - SPS-22	03/05/02	286	519	805	<20	383	282	2679	3344
Pit #1 - SPS-23	03/05/02	233	597	830	<20	310	241	2290	2841
Pit #1 - SPS-24	03/05/02	138	336	474	<20	326	216	1995	2537
Pit #1 - SPS-25	03/05/02	204	384	588	<20	412	320	2974	3706

Table 3. Summary of Analytical Results for Pit 1 Excavation Blended Soil Samples Compressor Station No. 9 - Roswell, NM

			TPH (mg/kg)				VOCs (ug/kg)		
Sample ID	Sampling Date	GRO	DRO	Total (GRO+DRO)	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX
W	ork Plan Criteria:			1000	10000				50000
Pit #1 - SPS-26	03/05/02	252	473	725	<20	329	285	2722	3336
Pit #1 - SPS-27	03/05/02	57.9	100	158	<20	348	260	2461	3069
Pit #1 - SPS-28	03/05/02	187	477	664	<20	449	306	2879	3634
Pit #1 - SPS-29	03/05/02	202	460	662	<20	406	290	2716	3412
Pit #1 - SPS-30	03/05/02	228	375	603	<20	463	328	3097	3888
Pit #1 - SPC-1	03/07/02	144	650	794	<20	112	109	1096	1317
Pit #1 - SPC-2	03/07/02	105	536	641	<20	86	88	891	1065
Pit #1 - SPC-3	03/07/02	96.2	188	284	<20	86.7	93.2	940	1120
Pit #1 - SPC-4	03/07/02	93.6	472	566	<20	72.2	89.3	977	1139
Pit #1 - SPC-5	03/07/02	71.6	210	282	<20	87.9	85.8	955	1129
Pit #1 - SPC-6	03/07/02	89.5	410	500	<20	80	62	726	868
Pit #1 - SPC-7	03/07/02	196	655	851	<20	108	92.2	1045	1245
Pit #1 - SPC-8	03/07/02	122	429	551	<20	137	116	1292	1545
Pit #1 - SPC-9	03/07/02	96.1	284	380	<20	127	97.6	1096	1321
Pit #1 - SPC-10	03/07/02	152	502	654	<20	125	88.4	953	1166
Pit #1 - SPC-11	03/07/02	66.9	276	343	<20	82.5	71.9	761	915
Pit #1 - SPC-12	03/07/02	120	610	730	<20	119	101	1015	1235
Pit #1 - SPC-13	03/07/02	38.6	108	147	<20	21.8	26.4	298	347
Pit #1 - SPC-14	03/07/02	27.3	146	173	<20	27.7	29.7	331	388
Pit #1 - SPC-15	03/07/02	20.4	68.8	89	<20	<20	<20	174	174
Pit #1 - SPC-16	03/07/02	19.2	81.8	101	<20	<20	<20	168	168
Pit #1 - SPC-17	03/07/02	101	319	420	<20	96.7	88.4	917	1102
Pit #1 - SPC-18	03/07/02	87.6	333	421	<20	147	112	1155	1414
Pit #1 - SPC-19	03/07/02	45.8	159	205	<20	25.9	30.4	358	414
Pit #1 - SPC-20	03/07/02	103	335	438	<20	78	65.8	783	927
Pit #1 - SPC-21	03/07/02	72.4	266	338	<20	158	122	1251	1531
Pit #1 - SPC-22	03/07/02	137	525	662	<20	325	185	1768	2278
Pit #1 - SPC-23	03/07/02	78.2	301	379	<20	163	123	1266	1552
Pit #1 - SPC-24	03/07/02	57.1	149	206	<20	413	203	1843	2459
Pit #1 - SPS-12 Retest	03/09/02	126	532	658	<20	34.3	47.2	658	740
Pit #1 - SPS-14 Retest	03/09/02	150	685	835	<20	54.8	75.6	986	1116
Pit #1 - SPS-19 Retest	03/09/02	297	957	1254	<20	120	167	2094	2381
Pit #1 - SPS-19 Test-3	03/13/02	46.5	92.1	139	<20	<20	<20	31	31

"---" - No applicable work plan criteria

Table 4. Summary of Analytical Results for Pit 2 Excavation Blended Soil Samples
Compressor Station No. 9 - Roswell, NM

			TPH (mg/kg)				VOCs (ug/kg)		
Sample ID	Sampling Date	GRO	DRO	Total (GRO+DRO)	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX
	Work Plan Criteria:			1000	10000				50000
Pit #2 - SPT-1	03/11/02	54.4	60.4	115	<20	<20	<20	143	143
Pit #2 - SPT-2	03/11/02	28.7	31.2	60	<20	<20	<20	59	59
Pit #2 - SPT-3	03/11/02	15	37.5	53	<20	<20	<20	<20	<20
Pit #2 - SPT-4	03/11/02	6.8	14.9	22	<20	<20	<20	<20	<20
Pit #2 - SPT-5	03/11/02	9.0	18.9	28	<20	<20	<20	<20	<20
Pit #2 - SPT-6	03/11/02	11.2	10.4	22	<20	<20	<20	<20	<20
Pit #2 - SPT-7	03/11/02	10.3	21.0	31	<20	<20	<20	<20	<20
Pit #2 - SPNE-1	03/11/02	162	290	452	<20	<20	<20	113	113
Pit #2 - SPNE-2	03/11/02	316	343	659	<20	<20	29.3	321	351
Pit #2 - SPNE-3	03/11/02	134	215	349	<20	<20	22	241	263
Pit #2 - SPNE-4	03/11/02	68.5	61.7	130	<20	<20	27.4	299	327
Pit #2 - SPNE-5	03/11/02	264	186	450	<20	<20	46.7	616	663
Pit #2 - SPNE-6	03/11/02	203	286	489	<20	<20	<20	206	206
Pit #2 - SPNE-7	03/11/02	117	169	286	<20	<20	<20	195	195
Pit #2 - SPNE-8	03/11/02	121	186	307	<20	<20	<20	170	170
Pit #2 - SPNE-9	03/11/02	67.5	89	157	<20	<20	<20	184	184
Pit #2 - SPNE-10	03/11/02	74.1	86.4	161	<20	<20	<20	149	149
Pit #2 - SPNE-11	03/11/02	106	139	245	<20	<20	<20	138	138
Pit #2 - SPNE-12	03/11/02	129	211	340	<20	<20	<20	220	220
Pit #2 - SPNE-13	03/11/02	89.1	116	205	<20	<20	20.8	214	235
Pit #2 - SPNE-14	03/11/02	277	221	498	<20	71.1	21.2	1200	1292
Pit #2 - SPNE-15	03/11/02	121	139	260	<20	100	34.5	810	945
Pit #2 - SPNE-16	03/11/02	150	127	277	<20	207	28.1	1262	1497
Pit #2 - SPNE-17	03/11/02	124	114	238	<20	85.4	23.1	731	840
Pit #2 - SPC-1	03/12/02	196	257	453	<20	<20	23.6	311	334
Pit #2 - SPC-2	03/12/02	69.6	77.5	147	<20	<20	<20	151	151
Pit #2 - SPC-3	03/12/02	49.8	56.2	106	<20	<20	<20	167	167
Pit #2 - SPC-4	03/12/02	78.8	97.6	176	<20	<20	<20	223	223
Pit #2 - SPC-5	03/12/02	63.2	73.8	137	<20	<20	<20	171	171
Pit #2 - SPC-6	03/12/02	66.2	102	168	<20	<20	<20	199	199
Pit #2 - SPC-7	03/12/02	68.9	88.9	158	<20	<20	<20	212	212
Pit #2 - SPC-8	03/12/02	84.6	186	271	<20	<20	<20	174	174
Pit #2 - SPT-9	03/12/02	35.3	54.8	90	<20	<20	<20	97	97
Pit #2 - SPT-10	03/12/02	32.8	42.8	76	<20	<20	<20	71	71
Pit #2 - SPT-11	03/12/02	98.3	115	213	<20	<20	<20	159	159
Pit #2 - SPT-12	03/12/02	74.9	106	181	<20	<20	<20	172	172
Pit #2 - SPT-13	03/12/02	70.2	78.9	149	<20	<20	<20	137	137
Pit #2 - SPT-14	03/12/02	109	53.2	162	<20	<20	48.4	531	579
Pit #2 - SPT-15	03/12/02	102	52.3	154	<20	<20	46.8	523	570
Pit #2 - SPT-16	03/12/02	94.3	40.5	135	<20	<20	46.3	507	553
Pit #2 - SPT-17	03/12/02	5.89	5.2	11	<20	<20	<20	<20	<20
Pit #2 - SPT-18	03/12/02	5.1	<5	5	<20	<20	<20	<20	<20
Pit #2 - SPT-19	03/12/02	147	157	304	<20	<20	<20	<20	<20
	03/12/02								

"---" - No applicable work plan criteria

Table 5. Summary of Analytical Results for Pit 1 and Pit 2 Backfill Soil Samples
Compressor Station No. 9 - Roswell, NM

			TPH (mg/kg)				VOCs (ug/kg)		
Sample ID	Sampling Date	GRO	DRO	Total (GRO+DRO)	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX
	Work Plan Criteria:			1000	10000				50000
Pit #1 - Sand-1	03/05/02	<b>&lt;</b> 5	7.3	7.3	<20	<20	<20	<20	<20
Pit #1 - Sand-2	03/05/02	<5	6.1	6.1	<20	<20	<20	<20	<20
Pit #1 - Sand-3	03/05/02	<5	15.5	15.5	<20	<20	<20	<20	<20
Pit #1 - Sand-4	03/05/02	<5	50.6	50.6	<20	<20	<20	<20	<20
Pit #1 - Sand-5	03/05/02	<5	5.9	5.9	<20	<20	<20	<20	<20
Pit #1 - Sand-6	03/05/02	<5	8.8	8.8	<20	<20	<20	<20	<20
Backfill-1	03/19/02	<5	<5	<5	<20	<20	<20	<20	<20
Backfill-2	03/19/02	<5	<5	<5	<20	<20	<20	<20	<20
Backfill-3	03/19/02	<b>&lt;</b> 5	<5	<5	<20	<20	<20	<20	<20

"---" - No applicable work plan criteria



Top Photo: Pit 1 excavation in progress.



Bottom Photo: Pit 1 excavation complete.

### TW Roswell ation - Soil Excavation & Removal Project



Top Photo: Pit 1 excavation, preparing bottom for liner.

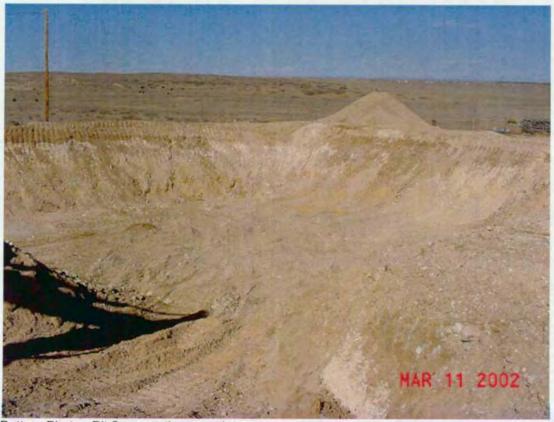


Bottom Photo: Pit 1 excavation, laying out liner.

## TW Roswell Station - Soil Excavation & Resoval Project



Top Photo: Pit 2 excavation in progress.



Bottom Photo: Pit 2 excavation complete.

## TW Roswell Station - Soil Excavation & Removal Project

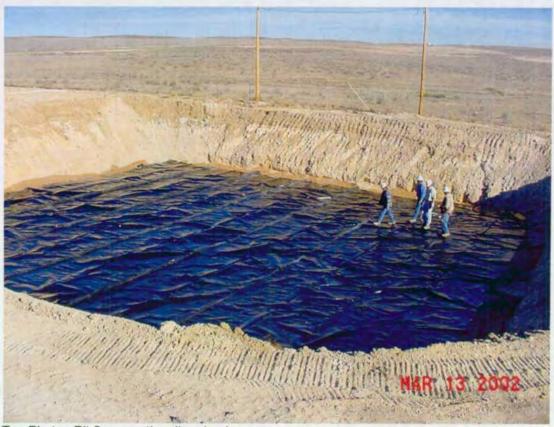


Top Photo: Pit 2 excavation, preparing bottom for liner.



Bottom Photo: Pit 2 excavation, laying out liner.

## TW Roswell ation - Soil Excavation & Repoval Project



Top Photo: Pit 2 excavation, liner in-place.



Bottom Photo: Project Complete, Pit 1 area in foreground and Pit 2 area in background.



#### CERTIFIED MAIL / RETURN RECEIPT REQUESTED TO FOLLOW

March 12, 2003

Mr. Ed Gearhart, Enforcement Section New Mexico Environment Department Air Quality Bureau 2048 Galisteo St. Santa Fe, NM 87505

RE:

Air Quality Permit Nos. 1776 and 1777

Transwestern Pipeline Company

AIRS Nos. 35-025-00219 and 35-025-00220

Actual Startup Date Notification

Dear Mr. Gearhart:

As required by Condition 6.b). of the subject permits, Transwestern Pipeline Company (Transwestern) is submitting notification of the actual start-up of Soil Vapor Extraction (SVE) operations at Transwestern's Roswell Station located in Chaves County, NM. The actual start-up date was March 10, 2003. In addition, as required by Condition 6.d)., Transwestern will operate the thermal oxidizer at or above the manufacturer's recommended temperature of 1,400° Fahrenheit.

If you have any questions regarding this issue, please contact George Robinson at (713) 345-1537. Thank you for your help in this matter.

Sincerely,

Bill Kendrick Senior Director

cc:

Mr. William C. Olson, Environmental Bureau

New Mexico Oil Conservation Division, 1220 South St. Francis Drive

Santa Fe, New Mexico 87505

Kendih

Mr. Larry Campbell, Transwestern Pipeline Company

Mr. George Robinson, Cypress Engineering

## ACKNOWLEDGEMENT OF RECEIPT OF CHECK/CASH

I hereby acknowledge receipt of che	eck No. dated 6/30/03
or cash received on $7/3/03$	in the amount of \$ $\frac{2,700.00}{}$
from Transwester Pipeline Co	_ in the amount of \$
for Rosvell Compressor State	CILOCO
Submitted by:	00 May 1
Submitted to ASD by:	- Data: 7//0/03
Received in ASD by:	Date:
Filing Fee New Facility	Date:Renewal
Modification Other	Welleast
(comments)	77
Organization Code <u>521.07</u>	Applicable Fy 20063
To be deposited in the Water Quality	. Wannana
Full Payment or Annual I	increment
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whose address is 1220 South St. Francis Drive, Santa Fe, NM 8	\$ 2,700.00
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modification for the Wildurg Total 0,700	Hall acres = 11=11=11
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## NEW MEXICO ENVIRONMENT DEPARTMENT REVENUE TRANSMITTAL FORM

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*26 UST Owner's Update	783	24	2500	2696	900000	4969207	-2
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32 Smoking School *33 SWQB - NPS Publications	783	24	2600	9096	800000	4969222	•3
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*34 Radiation Licensing Regulation	783	24	2500	9696	900000	4969301	*3
*35 Sale of Equipment	783	24	2500	9698	900000	4969302	•3
*36 Sala of Automobile	783	24	2500	9698	900000	4969614	**3
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* Gross Receipt Tax Required *** Site Name & Pt	roject Code Req	uirod				TOTAL	2,700,00
Contact Person: Rosen Anderson	Phone: _	6-	3490		Date:	7/10/	<u>03</u>
Received in ASD By:	_ Date:			RT#:		ST#:	

FSB025 Revised 07/07/00

Transwestern Pipeline Company 1400 Smith Street Houston, TX 77002 713-853-6161

June 30, 2003

Mr. William C. Olson Environmental Bureau New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505 RECEIVED

JUL 03 2003

ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

RE: Discharge Permit Modification (GW-052)

Roswell Compressor Station Chavez County, New Mexico

Enclosed is one signed copy of the conditions for approval. Also enclosed is a check in the amount of \$2,700.00 to cover both the filling fee and the flat fee for abatement of groundwater.

If you have any questions or comments regarding this transmittal, please contact George Robinson at (713) 345-1537 or you can contact me at (713) 646-7644.

Sincerely,

Bill Kendrick

Senior Director Environmental Affairs

Ukenchh

Transwestern Pipeline Company

xc w/enclosures:

Larry Campbell

George Robinson

Tim Gum

Transwestern Pipeline Co.

Cypress Engineering

OCD Artesia Office

## ATTACHMENT TO PERMIT MODIFICATION APPROVAL DISCHARGE PERMIT GW-052

#### Transwestern Pipeline Company Roswell Compressor Station

## DISCHARGE PERMIT MODIFICATION APPROVAL CONDITIONS June 16, 2003

- 1. Payment of Discharge Permit Fees: The \$100.00 filing fee and the \$2,600.00 flat fee for abatement of ground water and vadose zone contamination have not been received by the OCD. The filing fee is due upon receipt of this approval. The flat fee may be paid in a single payment due at the time of approval, or in equal annual installments over the duration of the discharge plan, with the first payment due upon receipt of this approval. OCD requires that TPC pay the required flat fee 30 days after permit approval. If TPC chooses to make annual payments then OCD will require documentation of payment to be included in the annual report.
- 2. <u>Commitments:</u> TPC will abide by all commitments submitted in the discharge permit modification application dated September 10, 2003 including those commitments in TPC's August 30, 2003 "CONCEPTUAL REMEDIAL DESIGN, ROSWELL COMPRESSOR STATION, ROSWELL, NEW MEXICO" and these conditions for approval.
- 3. Drum Storage: All drums containing materials other than fresh water must be stored on an impermeable pad with curbing. All empty drums should be stored on their sides with the bungs in place and lined up on a horizontal plane. Chemicals in other containers such as sacks or buckets must also be stored on an impermeable pad with curbing.
- 4. <u>Process Areas:</u> All process and maintenance areas which show evidence that leaks and spills are reaching the ground surface must be either paved and curbed or have some type of spill collection device incorporated into the design.
- 5. Above Ground Tanks: All above ground tanks which contain fluids other than fresh water must be bermed to contain a volume of one-third more than the total volume of the largest tank or of all interconnected tanks. All new facilities or modifications to existing facilities must place the tank on an impermeable type pad within the berm.
- 6. <u>Above Ground Saddle Tanks:</u> Above ground saddle tanks must have impermeable pad and curb type containment unless they contain fresh water or fluids that are gases at atmospheric temperature and pressure.

- 7. Labeling: All tanks, drums, and other containers should be clearly labeled to identify their contents and other emergency information necessary if the tank were to rupture, spill, or ignite. OCD allows master plans to be used that identifies all tanks, location, size and contents with a numbering system marked on the tanks which corresponds to plot plans contained in the plan.
- 8. Below Grade Tanks/Sumps/Pits/Ponds: All below grade tanks, sumps, pits and ponds must be approved by the OCD prior to installation or upon modification and must incorporate secondary containment and leak-detection into the design. All below grade tanks, sumps and pits must be tested annually, except systems that have secondary containment with leak detection. These systems with leak detection shall have a monthly inspection of the leak detection to determine if the primary containment is leaking. Results of tests and inspections shall be maintained at the facility covered by this discharge plan and available for OCD inspection. Any system found to be leaking shall be reported pursuant to Item # 12. Permit holders may propose various methods for testing such as pressure testing to 3 pounds per square inch above normal operating pressure and/or visual inspection of cleaned out tanks and/or sumps, or other OCD approved methods. The OCD will be notified at least 72 hours prior to all testing.
- 9. Below-grade Wastewater Lines: All below-grade fluid recovery gathering lines between the recovery wells and the water treatment facility must be tested to demonstrate mechanical integrity prior to operation and every five (5) years thereafter. Results of such tests shall be maintained at the facility covered by this discharge plan and available for OCD inspection. Permit holders may propose various methods for testing such as pressure testing to 3 pounds per square inch above normal operating pressure or other means acceptable to the OCD. The OCD will be notified at least 72 hours prior to all testing.
- 10. Class V Wells: No Class V wells that inject non-hazardous industrial wastes or a mixture of industrial wastes and domestic wastes will be approved for construction and/or operation unless it can be demonstrated that groundwater will not be impacted in the reasonably foreseeable future. Leach fields and other wastewater disposal systems at OCD regulated facilities which inject non-hazardous fluid into or above an underground source of drinking water are considered Class V injection wells under the EPA UIC program. Class V wells that inject domestic waste only must be permitted by the New Mexico Environment Department.
- 11. Housekeeping: All systems designed for spill collection/prevention, and leak detection will be inspected monthly to ensure proper operation and to prevent over topping or system failure. All open to atmosphere spill collection devices will be emptied of fluids, other than rainwater, within 48 hours of discovery. Enclosed secondary containment devices shall be emptied of all fluids within 48 hours to ensure that the primary device is not leaking. A record of inspection will be retained on site for a period of five years.
- 12. Spill Reporting: All spills/releases shall be reported pursuant to 19.15.3.116 NMAC and 20.6.2.1203 NMAC to the OCD Artesia District Office.

13. <u>Waste Disposal</u>: All wastes will be disposed of at an OCD approved facility. Only oilfield exempt wastes shall be disposed of down Class II injection wells. Non-exempt oilfield wastes that are non-hazardous may be disposed of at an OCD approved facility upon proper waste determination per 40 CFR Part 261. Any waste stream that is not listed in the discharge permit will be approved by OCD on a case-by-case basis.

Rule 712 Waste: Pursuant to Rule 712, disposal of certain non-domestic waste is allowed at solid waste facilities permitted by the New Mexico Environment Department as long as the waste stream is identified in the discharge permit, and existing process knowledge of the waste stream does not change without notification to the Oil Conservation Division.

- 14. OCD Inspections: Additional requirements may be placed on the facility based upon results from OCD inspections.
- 15. Storm Water Plan: TPC shall maintain stormwater runoff controls. As a result of operations if any water contaminant that exceeds the WQCC standards listed in 20.6.2.3101 NMAC is discharged in any stormwater run-off then TPC shall notify the OCD within 24 hours, modify the permit within 15 days and submit for OCD approval. TPC shall also take immediate corrective actions pursuant to Item 12 of these conditions.
- 16. Ground Water Treatment: Only treated ground water that meets the New Mexico Water Quality Control Commission standards in 20.6.2.3103 NMAC shall be land applied over the zone of remediation. The treated water shall be land applied a manner that does not result in ponding or runoff from the facility.
- 17. <u>Vadose Zone and Water Pollution:</u> The previously submitted investigation(s) and remediation permits were submitted pursuant to the discharge permit and all future discoveries of contamination will be addressed through the discharge permit process.
- 18. Ground Water Treatment System Monitoring:

TPC shall monitor water quality from the treatment system once prior to the initial land application and monthly thereafter. Monitoring samples shall be obtained and analyzed for concentrations of aromatic and halogenated volatile organics, and major cations and anions using EPA approved methods. The monthly volume of water treated and land applied shall also be measured. The monthly water volumes and water quality sampling results shall be included in each annual report on the ground water remediation system.

19. Transfer of Discharge permit: The OCD will be notified prior to any transfer of ownership, control, or possession of a facility with an approved discharge permit. A written commitment to comply with the terms and conditions of the previously approved discharge permit must be submitted by the purchaser and approved by the OCD prior to transfer.

- 20. Closure: The OCD will be notified when operations of the facility are discontinued for a period in excess of six months. Prior to closure of the facility a closure permit will be submitted for approval by the Director. Closure and waste disposal will be in accordance with the statutes, rules and regulations in effect at the time of closure.
- 21. Certification: Transwestern Pipeline Company by the officer whose signature appears below, accepts this and agrees to comply with all terms and conditions contained herein. Transwestern Pipeline Company further acknowledges that these conditions and requirements may be changed administratively by the Division for good cause shown as necessary to protect fresh water, human health and the environment.

Conditions accepted by: Transwestern Pipeline Company

Company Representative- print name

Bill Kend Date 6-27-03
Company Representative- Sign

Title SR. DIRECTOR ENVIRONMENTAL
AFFAIRS



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

#### **BILL RICHARDSON**

Governor Joanna Prukop Cabinet Secretary Lori Wrotenbery
Director
Oil Conservation Division

June 16, 2003

Mr. Bill Kendrick Transwestern Pipeline Company 1400 Smith St. Houston, Texas 77002

RE: DISCHARGE PERMIT MODIFICATION (GW-052)

ROSWELL COMPRESSOR STATION CHAVEZ COUNTY, NEW MEXICO

Dear Mr. Kendrick:

The groundwater discharge permit modification for the Transwestern Pipeline Company (TPC) Roswell Compressor Station located in the SW/4, SW/4 of Section 21, Township 9 South, Range 24 East, NMPM, Chavez County, New Mexico, is hereby approved under the conditions contained in the enclosed attachment. Enclosed are two copies of the conditions of approval. Please sign and return one copy to the New Mexico Oil Conservation Division (OCD) Santa Fe Office within 30 working days of receipt of this letter.

The original discharge permit was approved on November 9, 1990. The permit was most recently renewed on January 30, 2001. The discharge permit modification consists of TPC's September 10, 2002 "CONCEPTUAL REMEDIAL DESIGN AND DISCHARGE PLAN MODIFICATION, ROSWELL COMPRESSOR STATION, TRANSWESTERN PIPELINE COMPANY" and August 30, 2002 "CONCEPTUAL REMEDIAL DESIGN, ROSWELL COMPRESSOR STATION, ROSWELL, NEW MEXICO". The modification is for abatement of ground water and vadose zone contamination related to prior unlined pits at the facility.

The discharge permit is modified pursuant to 20.6.2.3109.C NMAC. Please note 20.6.2.3109.G NMAC, which provides for possible future amendment of the permit. Please be advised that approval of this permit modification does not relieve TPC of responsibility should operations result in pollution of surface water, ground water or the environment. In addition, OCD approval does not relieve TPC of responsibility for compliance with any other governmental authority's rules and regulations. Please be advised that all exposed pits, including lined pits and open top tanks (exceeding 16 feet in diameter) shall be screened, netted, or otherwise rendered nonhazardous to wildlife including migratory birds.

Please note that 20.6.2.3104 NMAC requires that "when a permit has been approved, discharges must be consistent with the terms and conditions of the permit." Pursuant to 20.6.2.3107.C NMAC, TPC is required to notify the Director of any facility expansion, production increase, or process modification that would result in any change in the discharge of water quality or volume.

Please be aware that the discharge permit approval will expire November 9, 2005 and an application for renewal should be submitted in ample time before that date. Pursuant to 20.6.2.3106.F NMAC, if a discharger submits a discharge permit renewal application at least 120 days before the discharge permit expires and is in compliance with the approved permit, then the existing discharge permit will not expire until the application for renewal has been approved or disapproved.

The discharge permit modification for the TPC Roswell Compressor Station is subject to discharge permit fees pursuant to 20.6.2.3114 NMAC. Every billable facility submitting a discharge permit will be assessed a fee equal to the filing fee of \$100.00 plus a flat fee of \$2,600.00 for abatement of ground water and vadose zone contamination. The OCD has not received either the \$100.00 filing fee or the \$2,600.00 flat fee.



If you have any questions, please contact Bill Olson of my staff at (505) 476-3491. On behalf of the staff of the OCD, I wish to thank you and your staff for your cooperation during this discharge permit modification review.

Sincerely,

Roger C. Anderson

Environmental Bureau Chief

RCA/wco

Attachment

xc:

Tim Gum, OCD Artesia District Supervisor George Robinson, Cypress Engineering

## ATTACHMENT TO PERMIT MODIFICATION APPROVAL DISCHARGE PERMIT GW-052

#### Transwestern Pipeline Company Roswell Compressor Station

# DISCHARGE PERMIT MODIFICATION APPROVAL CONDITIONS June 16, 2003

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- 3. <u>Drum Storage</u>: All drums containing materials other than fresh water must be stored on an impermeable pad with curbing. All empty drums should be stored on their sides with the bungs in place and lined up on a horizontal plane. Chemicals in other containers such as sacks or buckets must also be stored on an impermeable pad with curbing.
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- 10. Class V Wells: No Class V wells that inject non-hazardous industrial wastes or a mixture of industrial wastes and domestic wastes will be approved for construction and/or operation unless it can be demonstrated that groundwater will not be impacted in the reasonably foreseeable future. Leach fields and other wastewater disposal systems at OCD regulated facilities which inject non-hazardous fluid into or above an underground source of drinking water are considered Class V injection wells under the EPA UIC program. Class V wells that inject domestic waste only must be permitted by the New Mexico Environment Department.
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- 12. Spill Reporting: All spills/releases shall be reported pursuant to 19.15.3.116 NMAC and 20.6.2.1203 NMAC to the OCD Artesia District Office.

13. Waste Disposal: All wastes will be disposed of at an OCD approved facility. Only oilfield exempt wastes shall be disposed of down Class II injection wells. Non-exempt oilfield wastes that are non-hazardous may be disposed of at an OCD approved facility upon proper waste determination per 40 CFR Part 261. Any waste stream that is not listed in the discharge permit will be approved by OCD on a case-by-case basis.

Rule 712 Waste: Pursuant to Rule 712, disposal of certain non-domestic waste is allowed at solid waste facilities permitted by the New Mexico Environment Department as long as the waste stream is identified in the discharge permit, and existing process knowledge of the waste stream does not change without notification to the Oil Conservation Division.

- 14. OCD Inspections: Additional requirements may be placed on the facility based upon results from OCD inspections.
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19. Transfer of Discharge permit: The OCD will be notified prior to any transfer of ownership, control, or possession of a facility with an approved discharge permit. A written commitment to comply with the terms and conditions of the previously approved discharge permit must be submitted by the purchaser and approved by the OCD prior to transfer.

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- 21. Certification: Transwestern Pipeline Company by the officer whose signature appears below, accepts this and agrees to comply with all terms and conditions contained herein. Transwestern Pipeline Company further acknowledges that these conditions and requirements may be changed administratively by the Division for good cause shown as necessary to protect fresh water, human health and the environment.

Conditions accepted by:	Transwestern Pipeline Company				
	Company Representative- print name				
	Date				
	Company Representative- Sign				
	Title				

#### Olson, William

From:

Robinson, George [George.Robinson@ENRON.com]

Sent:

Thursday, October 17, 2002 5:38 PM

To:

Bill Olson (E-mail)

Cc:

Kendrick, William; Campbell, Larry

Subject:

TW Roswell Discharge Plan

Transwestern Pipeline Company recently submitted a remediation plan to your office for review and approval. The document provides a conceptual design for the soil and groundwater remediation system to be installed at the Roswell site. This document also serves as an addendum to the existing facility Discharge Plan.

With approval by your office, Transwestern plans to install surface and subsurface conveyance piping for the liquid recovery system at the same time that subsurface conveyance piping for the SVE system is installed. This installation is scheduled to start in mid-November and complete by end of December 2002. The liquid conveyance piping will consist primarily of 3/4" HDPE pipe and associated fittings, valves, sample ports, etc. The general location of the pipe trenches is shown in drawing C-2 of the remediation plan. The procedure for post construction testing of SVE and liquid recovery lines as specified in Section 4.5 of the "Final Remedial Design" specifications for construction is copied below.

As stated in the recent approval by your office of well installation activities, there will be no discharges from the liquid recovery system before the discharge plan modification is approved by the OCD.

If there are any questions regarding the proposed liquid recovery system installation activities, please contact me at the number shown below or contact Bill Kendrick at (713) 646-7644.

Thanks, George

#### 4.5 TESTING

- A. All vapor extraction piping shall be pressure tested by the Contractor prior to acceptance. All below grade pipe must be tested prior to backfill.
- 1. Vacuum Testing: requires that all Soil Vapor Extraction (SVE) process piping and hose be isolated as necessary and a minimum vacuum of 100 inches water be applied and the vacuum source disconnected from the piping. The test vacuum is to be monitored for one hour with an appropriate gauge on the piping system. The piping and hose must remain at the test vacuum  $(+\-2)$  to pass the test procedure.
- 2. Pipe systems or sections thereof shall be repaired or replaced by the Contractor at no cost to the Company until they pass the required test.
- B. All pressure piping (e.g, total fluids and pneumatic lines) shall be pressure tested by the Contractor prior to acceptance. All below grade pipe must be tested prior to backfill.
- 1. Pressure Testing: requires that all pressure process piping and hose be isolated as necessary and a minimum pressure of 100 PSI be applied and the pressure source disconnected from the piping. The test pressure is to be monitored for one hour with an appropriate gauge on the piping system. The piping and hose must remain within 2 % of the test pressure to pass the test procedure.
- 2. The integrity of continuous HDPE piping (e.g., no welded joints) may be determined prior to its use. HDPE that passes may be used without further testing so long as no welded joints will be placed below grade. All strands of pipe with welded joints shall be tested prior to backfilling as described above.

Contract Environmental Engi Cypress Engineering

ENRON Office: (713) 345-1537

ENRON email: george.robinson@enron.com

This e-mail is the property of Enron Corp. and/or its relevant affiliate and may contain confidential and privileged material for the sole use of the intended recipient (s). Any review, use, distribution or disclosure by others is strictly prohibited. If you are not the intended recipient (or authorized to receive for the recipient), please contact the sender or reply to Enron Corp. at enron.messaging.administration@enron.com and delete all copies of the message. This e-mail (and any attachments hereto) are not intended to be an offer (or an acceptance) and do not create or evidence a binding and enforceable contract between Enron Corp. (or any of its affiliates) and the intended recipient or any other party, and may not be relied on by anyone as the basis of a contract by estoppel or otherwise. Thank you.

# THE SANTA FE NEW SERVER RECEIVE

Founded 1849

OCT 2 3 2002

OIL CONSERVATION DIVISION

NOTICE OF PUBLICATION

STATE OF NEW MEXICO ENERGY, MINERALS ND NATURAL RE-SOURCES DEPARTMENT OIL CONSERVATION DIVISION

following discharge plan modification has been submitted to the Director of the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, Telephone (505) 476-3440:

(GW-052) - Transwestern Pipeline Company, Bill Kendrick (Project Man-ager), 1400 Smith Street, Houston, Texas 77002, has submitted a

discharge plan modifica-tion for the remediation of contaminated soil and ground water at the Roswell Compressor Station located in the SW 1/4 SW 1/4, of Section 21, Township 9 South, Range 24 East NMPM, Chaves County, New Mexico. The modification addresses remediation of contaminated soil and ground water through the use of multi-phase extraction wells. Approximately 10 gallons per minute of contaminated ground water is to be processed through a treatment system to remove contaminants to below WQCC ground water standards prior to surface applications. Groundwater most likely to be affected by the discharge is at a depth of approximately 50 feet with a total dissolved solids concentration of approximately 2,600 mg/l. The discharge plan addresses system operation and monitor-ing, and how spills, leaks, and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge EMNRD

1220 ST. FRANCIS DR. SANTA FE, NM 87505

ATTN ED MARTIN

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission (WQCC) Regulations, the following discharge plan modification has been Division Artesia District Division Artesia District Office, 1301 West Grand Artesia, NM Ave., Artesia, NM 88210. Prior to ruling on any proposed discharge plan or its modification, the Director of the Oil Ave., Division Conservation shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted and a public hearing may be requested by any interested person. Request for public hearing the state of the s reasons why a hearing shall be held if the Direction tor determines that there is significant public interest. If no hearing is held, the Director will approve or disapprove the plan based on the information available. If a public hearing is held, the Director will approve the plan based on the information in the plan and information presented at the hearing.

> GIVEN under the Seal of New Mexico Conserva-tion Commission at Santa Fe, New Mexico, on this 15th day of October, 2002.

STATE OF NEW MEXICO OIL CONSERVATION DIVI-SION

SEAL LORI WROTENBERY, Diréctor Legal #72329 Pub. Oct. 10, 2002

AD NUMBER: 286556 ACCOUNT: 56660

LEGAL NO: 72329 203 LINES 1 time(s) at \$ 89.49

P.O.#: 03-199-0000

AFFIDAVITS:

TAX: 5.92 100.66 TOTAL:

AFFIDAVIT OF PUBLICATION

STATE OF NEW MEXICO

COUNTY OF SANTA FE

I, K VOCYNEES being first duly sworn declare and say that I am Legal Advertising Representative of THE SANTA FE NEW MEXICAN, a daily newspaper published in the English language, and having a general circulation in the Counties of Santa Fe and Los Alamos, State of New Mexico and being a Newspaper duly qualified to publish legal notices and advertisements under the provisions of Chapter 167 on Session Laws of 1937; that the publication #72329 a copy of which is hereto attached was published in said newspaper 1 day(s) between 10/18/2002 and 10/18/2002 and that the notice was published in the newspaper proper and not in any supplement; the first publication being on the 18 day of and that the undersigned has personal knowledge of the matter and things set forth in this affidavit.

151 K. Oranices

LEGAL ADVERTISEMENT REPRESENTATIVE

Subscribed and sworn to before me on this 21 day of October A.D., 2002

Letura ? . (bridge Notary \_

Commission Expires

#### AFFIDAVIT OF PUBLICATION

#### **COUNTY OF CHAVES** STATE OF NEW MEXICO

Fran Saunders Legals Clerk

Of the Roswell Daily Record, a daily newspaper published at Roswell, New Mexico, do solemnly swear that the clipping hereto attached was published in the regular and entire issue of said paper and not in a supplement thereof for a period of: -

one time

beginning with the issue dated

October

17th

2002

and ending with the issue dated

October

17th

2002

Sworn and subscribed to before me

This 23rd day of October

My Commission expires July 25, 2006

(SEAL)

Publish October 17, 2002

#### NOTICE OF PUBLICATION

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission (WQCC) Regulations, the following distribute plan modifications has been submitted to the Director of the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, Telephone (505), 2011, 2010.

(GW-052) - Transwestem Pipeline Company, Bill Kendrick (Project Manager, 1400 Smith Street, Housene Space 2700 and manager, 1400 Smith Street, Housene Space 2700 and manager and discharge plear modification for the remediation of contembrated and ground water at the Roswell Compressor Station located in the SW1/4SW1/4, of Section 21, Township 9 South, Range 24 East NMPM, Chaves County, New Mexico. The modification addresses remediation of contaminated soil and ground water through the use of multi-phase extraction wells. Approximately 10 gallons per infinute of contaminated ground water is to be processed through a treatof contaminated ground water is to be processed mought a mean-ment system to remove contaminants to below WQCC ground water standards prior to surface applications. Groundwater most likely to be affected by the discharge is at a depth of approximately 30 feet with a total dissolved solids concentration of approximately, 2,600 mg/l. The discharge plan addresses system operation and monitor-ing, and how splite, leaks, and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director; of the Oil Conservation Division at the address given; above. The discharge plan application may be viewed between 8:00 a.m. and 4:00 p.m., Monday through Friday, at the above address or at the Oil Conservation Division Artesia District Office, 1301 West Grand Ave., Artesia, NiM 88201. Prior to rufing on any proposed discharge plan or its modification; the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted and a public hearing may be requested by any interested person. Request for public hearing shall set forth the reasons why a hearing shall be held. A hearing will be held if the Director will approve or disapprove the plant based on the information available. If a public hearing is held, the Director will approve or disapprove the plant based on the information in the plan and information presented at the hearing. Any interested person may obtain further information from the Oil Conservation

GIVEN under the Seal of New Mexico Conservation Commission at Santa Fe, New Mexico, on this 15th day of October, 2002.

STATE OF NEW MEXICO OIL CONSTITUTION DIVISION LORI WINZTENBERY, Director

SEAL

#### AFFIDAVIT OF PUBLICATION

#### COUNTY OF CHAVES STATE OF NEW MEXICO

I, Fran Saunders Legals Clerk

Of the Roswell Daily Record, a daily newspaper published at Roswell, New Mexico, do solemnly swear that the clipping hereto attached was published in the regular and entire issue of said paper and not in a supplement thereof for a period of:

one time

beginning with the issue dated

October

17th

2002

and ending with the issue dated

October

17th

2002

Sworn and subscribed to before me

This 23rd day of October 2002

Notary Publi

My Commission expires July 25, 2006

(SEAL)

Publish October 17, 2002

NOTICE OF PUBLICATION

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission (WQCC) Regulations, the following discharge plan modifications has been submitted to the Director of the Olf Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, Telephone (505) 876-3440:

(GW-052) - Transwestern Pipeline Company, Bill Kendrick (Project Manager), 1400 Smith Straet, Houston, Texas, 7700% has submitted a discharge plan modification for, the remediation of contaminated soil and ground water at the Roswell Compressor Station located in the SW1/4SW1/4, of Section 21, Township 9 South, Range 24 East NMPM, Chaves County, New Mexico. The modification addresses remediation of contaminated soil and ground water through the use of multi-phase extraction wells. Approximately 10 gallons per, minute of contaminated ground water is to be processed through a treatment system to remove contaminants to below WQCC ground water standards only to tempore contaminants to below WQCC ground water standards only to tempore contaminants to below WQCC ground water standards only to tempore contaminates. Groundwater most likely to be affected by the discharge is at a depth of approximately 2,600 mg/l. The discharge plan addresses system operation and monitoring, and how spills, leaks, and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application may be viewed between 8:00 a.m. and 4:00 p.m., Monday through Friday, at the above address or at the Oil Conservation Division Artesia District Office, 1301 West Grand Ave., Artesia, NM 88201. Prior to rulling on any proposed discharge plan or its modification; the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted and a public hearing may be requested by any interested person. Request for public hearing shall set forth the reasons why a hearing shall be held. A hearing will be held if the Director determines that there is significant public interest. If no hearing is held, the Director determines that there is significant public interest. If no hearing is held, the Director will approve the plan based on the information available, if a public hearing is held, the Director will approve the plan based on the information in the plan and information presented at the hearing.

GIVEN under the Seal of New Mexico Conservation Commission at Santa Fe, New Mexico, on this 15th day of October, 2002.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

SEAL

LORI WROTENBERY, Director

#### Olson, William

From:

Olson, William

Sent:

Tuesday, October 15, 2002 3:59 PM

To:

George Robinson (E-mail)

Cc:

Dave Cobrain (E-mail)

Subject:

TW Roswell Station - Well Installations







ROSWELL-WELL ROSWELL-WELL ROSWELL-WELL /PES MONITORING YPES MULTI-PHASE.YPES SOIL VAPOR.

George,

The below-referenced proposed well installation plan for the Transwestern Pipeline Company Roswell Station is approved. Please be aware that discharges from the system cannot occur before the discharge plan modification is approved by the OCD.

The public notice of Transwestern's proposed discharge plan modification was sent out to the newspapers today. The 30 day public comment period begins upon publication. OCD review of the plan will occur after the public comment period is complete.

If you have any questions, please contact me.

Sincerely,

William C. Olson New Mexico Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 (505) 476-3491

----Original Message----

From: Robinson, George [mailto:George.Robinson@ENRON.com]

Sent: Tuesday, October 15, 2002 2:45 PM

To: Bill Olson (E-mail)

Cc: Kendrick, William; george.robinson@cypressinc.us
Subject: TW Roswell Station - Well Installations

Transwestern Pipeline Company recently submitted a remediation plan to your office for review and approval. The document provides a conceptual design for the soil and groundwater remediation system to be installed at the Roswell site. This document also serves as an addendum to the existing facility Discharge Plan.

With approval by your office, Transwestern plans to initiate drilling activities on Tuesday, October 22, 2002. A total of 47 wells are scheduled to be installed between this date and December 15, 2002. The locations of the wells are indicated in drawing number C-2 of the remediation plan. The drawing indicates the proposed location of 38 multi-phase (soil vapor and water) extraction wells, 7 shallow vapor extraction wells, and 2 additional monitor wells. A well completion detail for each of the three types of wells is attached with this email message.

If there are any questions regarding the proposed drilling activities, please contact me at the number shown below or contact Bill Kendrick at (713) 646-7644.

Thanks, George <<ROSWELL-WELL TYPES MONITORING WELL (1).pdf>> <<ROSWELL-WELL TYPES MULTI-PHASE
(1).pdf>> <<ROSWELL-WELL TYPES SOIL VAPOR (1).pdf>>

George C. Robinson, PE
Contract Environmental Engineer
Cypress Engineering
ENRON Office: (713) 345-1537

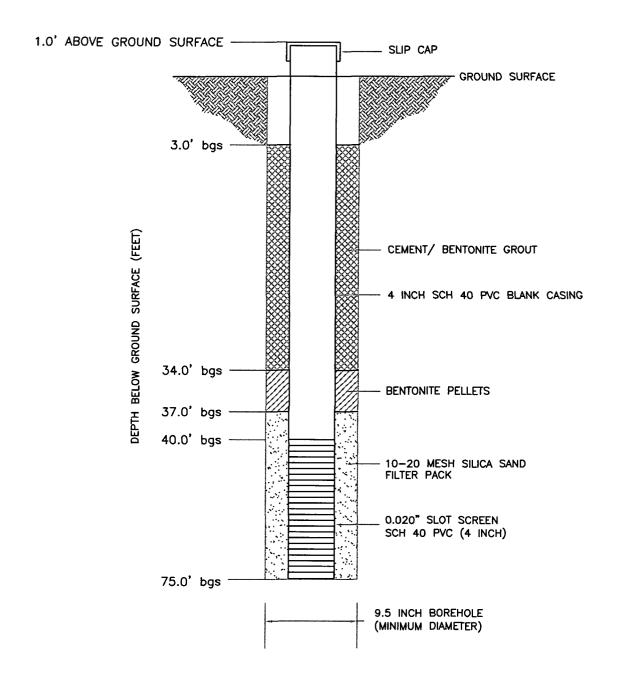
ENRON email: george.robinson@enron.com

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

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\*\*\*\*\*\*\*\*\*\*\*\*\*\*

## TEMPORARY WELL COMPLETION



NOTE:
PERMANENT WELL VAULTS WILL BE
CONSTRUCTED DURING THE
REMEDIAL IMPLEMENTATION PHASE.

ROSWELL COMPRESSOR STATION ROSWELL, NEW MEXICO

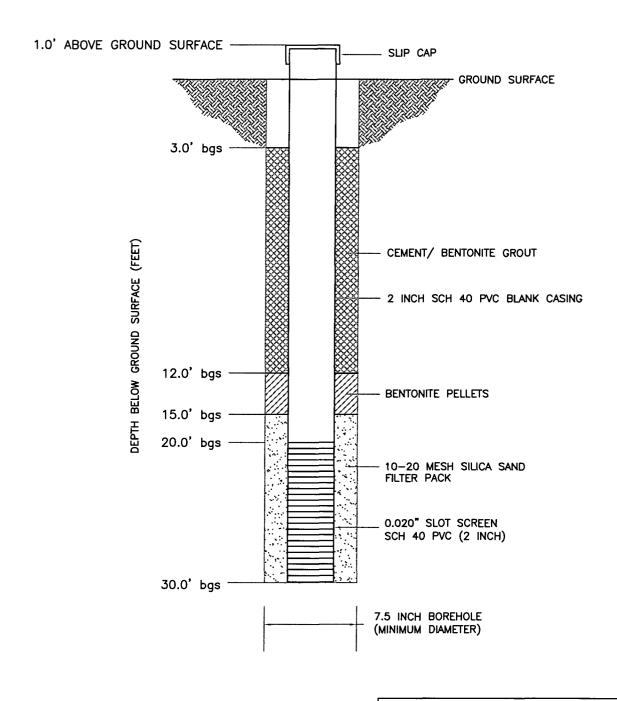
FIGURE 1
CONSTRUCTION DETAIL FOR
MULTI-PHASE EXTRACTION WELL



Tetra Tech EM Inc.

LBUQUERQUE ROSMETT ROSMETT -- WFT TYPES dwg 09/17/2002 mariana purman S

### TEMPORARY WELL COMPLETION



NOTE:
PERMANENT WELL VAULTS WILL BE
CONSTRUCTED DURING THE
REMEDIAL IMPLEMENTATION PHASE.

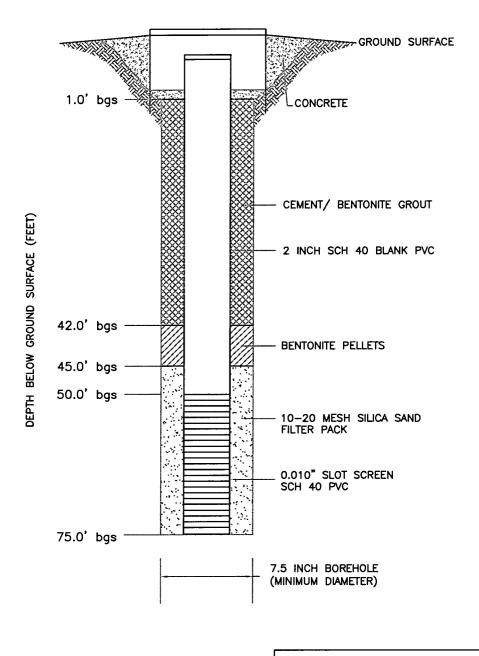
ROSWELL COMPRESSOR STATION ROSWELL, NEW MEXICO

FIGURE 2
CONSTRUCTION DETAIL FOR SHALLOW
SOIL VAPOR EXTRACTION WELL



Tetra Tech EM Inc.

Bioliganish pocure i went trace 4.... And 14.1/2016



ROSWELL COMPRESSOR STATION ROSWELL, NEW MEXICO

FIGURE 3
CONSTRUCTION DETAIL FOR
GROUNDWATER MONITORING WELL



Tetra Tech EM Inc.

#### Olson, William

From:

Martin, Ed

Sent:

Tuesday, October 15, 2002 8:16 AM

To:

Santa Fe New Mexican (E-mail)

Cc:

Ford, Jack; Olson, William; Bruce S. Garber; Chris Shuey; Colin Adams; Director, State Parks; Don Fernald; Don Neeper; Eddie Seay; Gerald R. Zimmerman; Jack A. Barnett; James Bearzi; Jay Lazarus; Lee Wilson & Associates; Marcy Leavitt; Martin Nee; Mike

Matush; Ned Kendrick; Regional Forester; Ron Dutton; Sectretary, NMED

Subject:

**Public Notices** 

Please publish the attached legal notices, one time only, on or before Friday, October 18, 2002. Upon publication, forward to this office:

1. Publisher's affidavit.

2. Invoice. Our purchase order number is **03-199-000050** If you have any questions, please contact me. Thank you.







Publ. Notice GW-099.doc Publ. Notice GW-277.doc

Publ. Notice GW-052a.doc

Ed Martin

New Mexico Oil Conservation Division Environmental Bureau 1220 S. St. Francis Santa Fe, NM 87505

Phone: 505-476-3492 Fax: 505-476-3471

#### NOTICE OF PUBLICATION

#### STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission (WQCC) Regulations, the following discharge plan modification has been submitted to the Director of the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, Telephone (505) 476-3440:

(GW-052) – Transwestern Pipeline Company, Bill Kendrick (Project Manager), 1400 Smith Street, Houston, Texas 77002, has submitted a discharge plan modification for the remediation of contaminated soil and ground water at the Roswell Compressor Station located in the SW 1/4 SW 1/4, of Section 21, Township 9 South, Range 24 East NMPM, Chaves County, New Mexico. The modification addresses remediation of contaminated soil and ground water through the use of multi-phase extraction wells. Approximately 10 gallons per minute of contaminated ground water is to be processed through a treatment system to remove contaminants to below WQCC ground water standards prior to surface applications. Groundwater most likely to be affected by the discharge is at a depth of approximately 50 feet with a total dissolved solids concentration of approximately 2,600 mg/l. The discharge plan addresses system operation and monitoring, and how spills, leaks, and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application may be viewed between 8:00 a.m. and 4:00 p.m., Monday through Friday, at the above address or at the Oil Conservation Division Artesia District Office, 1301 West Grand Ave., Artesia, NM 88210. Prior to ruling on any proposed discharge plan or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted and a public hearing may be requested by any interested person. Request for public hearing shall set forth the reasons why a hearing shall be held. A hearing will be held if the Director determines that there is significant public interest. If no hearing is held, the Director will approve the plan based on the information available. If a public hearing is held, the Director will approve the plan based on the information in the plan and information presented at the hearing.

GIVEN under the Seal of New Mexico Conservation Commission at Santa Fe, New Mexico, on this 15th day of October, 2002.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

LORI WROTENBERY, Director

**SEAL** 

1220 S. St. Francis Santa Fe, NM 87505 Phone 505-476-3492 Fax 505-476-3471





То:	To: Roswell Daily Record  Fax: 505-625-0421			From:	Ed Martin		
Fax:				Pages:	10/15/2002		
Phone: 505-622-7710				Date:			
Re:	Legal Notice			CC:	Bill Olson		
□ Urge	ent 🗀 For I	Review	☐ Please Con	nment	☐ Please Reply	☐ Please Recycle	
Please 2002.	publish the a	attached i	egal notice, o	ne time	only, on or before	e Friday, October 18,	
Upon p	oublication, fo	ward to t	nis office:				
1. Pul	blisher's affida	ıvit.					
2. inv	oice. Our pur	chase ord	er number is 0:	3-199-05	0132.		

If you have any questions, please contact me. Thank you.

#### NOTICE OF PUBLICATION

# STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission (WQCC) Regulations, the following discharge plan modification has been submitted to the Director of the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, Telephone (505) 476-3440:

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GIVEN under the Seal of New Mexico Conservation Commission at Santa Fe, New Mexico, on this 15th day of October, 2002.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

Transwestern Pipeline Company 1400 Smith Street Houston, TX 77002 713-853-6161

September 10, 2002

Mr. William C. Olson Environmental Bureau New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505 RECEIVED

SEP 1 2 2002

ENVIRONMENTAL BUREAU OIL CONSERVATION DIVISION

RE: Conceptual Remedial Design and Discharge Plan Modification

Roswell Compressor Station Transwestern Pipeline Company

Transwestern Pipeline Company submits the enclosed document for your review and approval. The document provides a conceptual design for the soil and groundwater remediation system to be installed at the Roswell site. This document also serves as an addendum to the existing facility Discharge Plan. Design specifications for construction of the system as well as a plan for operation, maintenance, and performance assessment will be completed and submitted to your office within the next few weeks.

An additional copy of drawing number C-2 has been attached separately with this transmittal for your convenience. This drawing indicates the proposed location of 38 multi-phase (soil vapor and water) extraction wells, 7 shallow vapor extraction wells, 2 additional monitor wells, the trenching layout for conveyance piping, the location of an equipment compound, and the proposed off-site area to be fenced.

If you have any questions or comments regarding the enclosed document, please contact George Robinson at (713) 345-1537 or you can contact me at (713) 646-7644.

Sincerely,

Bill Kendrick

Director Environmental Affairs Transwestern Pipeline Company

All Kenduck

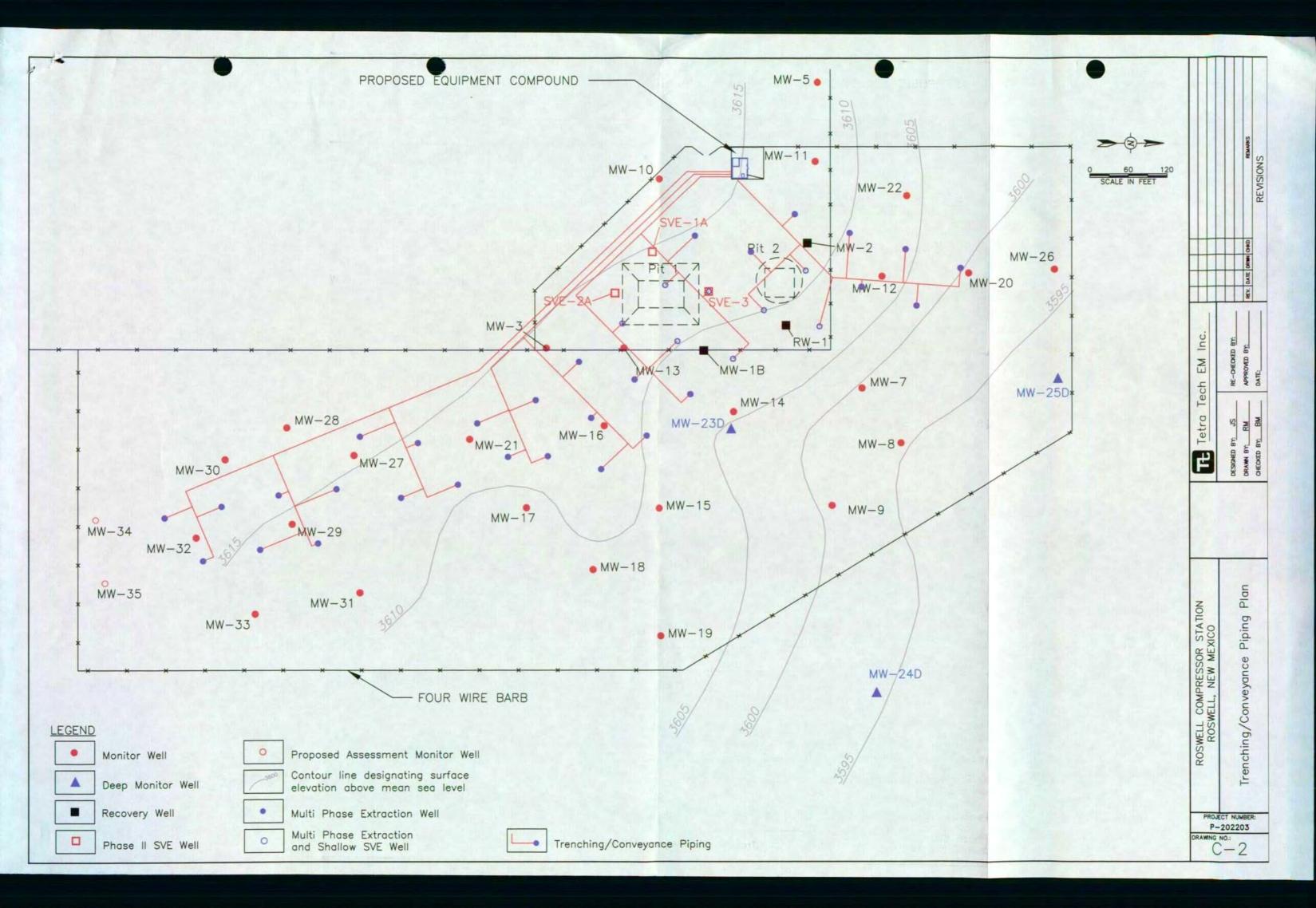
xc w/attachments:

Larry Campbell George Robinson

Tim Gum

Transwestern Pipeline Co.

Cypress Engineering OCD Artesia Office



#### Martin, Ed

From:

Martin, Ed

Sent:

Wednesday, April 10, 2002 7:42 AM

To:

'Campbell, Larry'

Subject:

RE: Drain line Testing

This plan is approved as stated. Please let me have a summary of the results of the tests when complete. Take care.

----Original Message----

From: Campbell, Larry [mailto:Larry.Campbell@ENRON.com]

Sent: Tuesday, April 09, 2002 11:48 AM

To: EMARTIN@state.nm.us Subject: Drain lIne Testing

Ed, when you were in the Hobbs area last month inspecting a couple of compressor stations operated by Transwestern Pipeline Company, I requested that Transwestern be given approval to conduct the 5 year drain line testing requirements at its 13 compressor stations which are currently under OCD discharge plans, prior to the five renewal date on the permit. The reason for this request is to reduce the price of sending a contractor out multiple times to do drain line testing when it would benefit Transwestern if the contractor could start at one end of our pipeline system and move concurrently from station to station and complete the testing for the al the compressor station along the entire pipeline in New Mexico. I am proposing to use the same methodology as was previously approved by your agency for the last drain line testing and propose to conduct the testing during the month of July. The list of facilities which are covered under this request are as follows:

#### Transwestern Pipeline Company

Wt-1 Compressor Station	GW-109				
Mountainair Compressor Station	GW-110				
Laguna Compressor Station	GW- 95				
Thoreau Compressor Station	GW- 80				
Bloomfield Comrpessor Station	GW- 84				
Portales Compressor Station	GW- 90				
Bisti Compressor Station	GW-285				
Roswell Compressor Station	GW- 52				
Gallup Compressor Station	GW-325				
Monument Compressor Station	GW-197				
Corona Compressor Station	GW- 89				

Northern Natural Gas Company

Eunice Compressor Station GW-113 GW-283 Jal Compressor Station

Ed, give me your thoughts on this.

Thanks

This e-mail is the property of Enron Corp. and/or its relevant affiliate and may contain confidential and privileged material for the sole use of the intended recipient (s). Any review, use, distribution or disclosure by others is strictly prohibited. If you are not the intended recipient (or authorized to receive for the recipient), please contact the sender or reply to Enron Corp. at enron.messaging.administration@enron.com and delete all copies of the message. This e-mail (and any attachments hereto) are not intended to be an offer (or an acceptance) and do not create or evidence a binding and enforceable contract between Enron Corp. (or any of its affiliates) and the intended recipient or any other

#### ACKNOWLEDGEMENT OF RECEIPT OF CHECK/CASH

I hereby acknowledge receipt of check No dated 2/9/01
or cash received on $\frac{2/27/01}{}$ in the amount of \$ 690.00
from TRANSWESTERN /ENRAN
for RESINELL COMPRESSOR STATION GW-052
Submitted by: Date:
Submitted to ASD by: Sa Marin Date: 2/27/61
Received in ASD by:Data:
Filing Fee New Facility Renewal
Modification Other
(A <del>(1111)</del> )
Organization Code 521.07 Applicable FY 2001
To be deposited in the Water Quality Management Fund.
Full Payment or Annual Increment



Transwestern Pipeline Co P.O. BOX 1188 HOUSTON, TX 77251-1188

DATE 02/09/2001

NO.

62-20 311

\*\*\*690.00

NOT VALID AFTER 1 YEAR

PAY TOTHE

Six Hundred Ninety and NO/100 Dollars NEW MEXICO OIL CONSERVATION DIVISION 1220 S ST FRANCIS DR SANTA FE NM 87505

ORDER OF

AUTHORIZED SIGNATURE

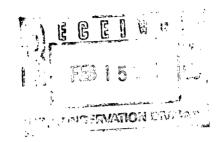
CITIBANK DELAWARE, A SUBSIDIARY OF CITICORP ONE PENN'S WAY, NEW CASTLE, DE 19720

# NEW MEXICO ENVIRONMENT DEPARTMENT REVENUE TRANSMITTAL FORM

				DFA	DFA	ED	ED	
	<b>Description</b> _	FUND	CEB	ORG	ACCT	ORG	ACCT	AMOUNT
	CV Paimbursement Project Tax	064	01					
1	- At Wallibra aguignet calast	064	01		2329	900000	2329134	
5_	Gross Receipt Tax	092	13	1300	1696	800000	4169134	
3	Air Quality Title V	248	14	1400	8696	800000	4969014	
4_	PRP Prepayments	248	14	1400	9696	800000	4989015	
2_	Climax Chemical Co.	248	14	1400	9696	800000	4969248	
<u> </u>	Circle K Reimbursements	339	27	2700	1696	900000	4169027	
7_	Hazardous Waste Permits Hazardous Waste Annual Generator Fees	339	27	2700	1696	900000	4169339	
8	Hazardous Waste Annual Carrenton Division	341	29		2329	900000	2329029	
10_	Water Quality - Oil Conservation Division	341	29	2900	1696	900000	4169029	690.00
11_	Water Quality - GW Discharge Permit	631	31	2500	1696	900000	4169031	<u> </u>
12_	Air Quality Permits	651	33		2919	900000	2919033	11
13_	Payments under Protest	652	34		2349	900000	2349001	**.
14_	Xerox Copies	652	34		2349	900000	2349002	16
15_	Ground Water Penalties	652	34		2349	900000	2439003	16
16	Witness Fees	652	34		2349	900000	2349004	1:
17 _	Air Quality Penalties	652	34		2349	800000	2349005	16
18	OSHA Penalties	652	34		2349	900000	2349006	16
19_	Prior Year Reimbursement		34		2349	900000	2349009	20
20_	Surface Water Quality Certification	652 050	34		2349	900000	2349012	21
21 _	Jury Duty	852 550	34 34		2349	900000	2349014	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
22	CY Reimbursements (1.e. telephone)	552		2500	9696	900000	4969201	-23
23 🗌	UST Owner's List	783	24	2500 2500	9696	900000	4969202	-24
24 _	Hazardous Waste Notifiers List	783	24	2500	9696	900000	4989203	-25
25	UST Maps	783	24	2500 2500	9696	900000	4989205	*26
26 <u> </u>	UST Owner's Update	783	24		2696	900000	4969207	-28
28	Hazardous Waste Regulations	783	24	2500	9696	900000	4969208	*29
29 _	Radiologic Tech. Regulations	783	24	2500	9696 9696	900000	4989211	*30
30 _	Superfund CERLIS List	783	24	2500		900000	4969213	31
31	Solid Waste Permit Fees	783	24	2500	9696	900000	4969214	32
32 ¯	Smoking School	7 <b>8</b> 3	24	2500	9696	800000	4969222	*33
33 ¯	SWQB - NP5 Publications	783	24	2500	9696		4969228	•34
34	Radiation Licensing Regulation	783	24	2500	9696	900000	4969301	•35
35	Sale of Equipment	783	24	<b>250</b> 0	9696	900000	4969302	-3e
36	Sale of Automobile	783	24	2500	9698	900000		
37	Lust Recoveries	783	24	2500	9696	900000	4969814	**38
38	Lust Repayments	783	24	2500	9696	900000	4989615	39
39	Surface Water Publication	783	24	2500	9896	900000	4969801	40
40	Exxon Reese Drive Ruidoso - CAF	783	24	2500	9695	9000000	4969242	
41	Emerg. Hazardous Waste Penalties NOV	957	32	9600	1696	900000	4164032	41 42
42	Radiologic Tech. Certification	987	05	0500	1696	900000	4169005	42
44	Ust Permit Fees	989	20	3100	1696	900000	4169020	
45	UST Tank Installers Fees	969	20	3100	1696	800000	4169021	45
46	Food Permit Fees	991	26	2600	1696	800000	4169026	46
43	Other -							43
~·							YOTAL	690.00
Gros	s Receipt Tax Required Site Name & Project	t Code Req		, , , , , ,			TOTAL	
	act Person: Id Martin		7/	v - 347	12	Date:	2/22/	7,
Conte	act Person: Ad Mar Tax	Phone:	21.23	1.15.1-		_ Date.	A, 31/	<u></u>
Recei	ved in ASD By:	Date:			RT#:		_ ST#:_	



February 12, 2001



**Enron Transportation** 

Services Provided by Northern Natural Gas Company and Transwestern Pipeline Company 6381 North Main Street Roswell, NM 88201 (505) 623-2761 Fax (505) 625-8060

& Storage

Mr. Roger Anderson Oil Conservation Division 1220 S. St. Francis Dr. Santa Fe, New Mexico

87505

Re:

Discharge Plan Renewal Fee, Compressor Station No. 9, Roswell

OCD Discharge Plan GW 052

Dear Mr. Anderson:

Enclosed find check no. 100000964 in the amount of \$690.00 issued by Transwestern Pipeline Company to cover the required fee for renewal of the above referenced facility's OCD Discharge Plan.

Sincerely,

Larry Campbell

**Division Environmental Specialist** 

Larry Campbell

file



## NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor

Governor
Jennifer A. Salisbury
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

January 30, 2001

CERTIFIED MAIL
RETURN RECEIPT NO. 3771-6982

Mr. Larry Campbell Transwestern Pipeline Company 6381 North Main Roswell, New Mexico 88201

**RE:** Discharge Plan Renewal GW-052

Transwestern Pipeline Company Roswell Compressor Station Chaves County, New Mexico

Dear Mr. Campbell

The ground water discharge plan renewal application GW-052 for the Transwestern Pipeline Company Roswell Compressor Station located in the SW/4 SW/4 of Section 21, Township 9 South, Range 24 East, NMPM, Chaves County, New Mexico, is hereby approved under the conditions contained in the enclosed attachment. Enclosed are two copies of the conditions of approval. Please sign and return one copy to the New Mexico Oil Conservation Division (OCD) Santa Fe office within 10 working days of receipt of this letter. Please note new mailing address below.

The original discharge plan application was submitted on April 9, 1990 and approved November 9, 1990. The discharge plan renewal application letter, dated May 30, 2000, submitted pursuant to Section 3106 of the New Mexico Water Quality Control Commission (WQCC) Regulations also includes all earlier applications and all conditions later placed on those approvals. The discharge plan is renewed pursuant to Section 3109.C. Please note Section 3109.G, which provides for possible future amendment of the plan. Please be advised that approval of this plan does not relieve **Transwestern Pipeline Company** of responsibility should operations result in pollution of surface water, ground water or the environment. Nor does it relieve **Transwestern Pipeline Company** of its responsibility to comply with any other governmental authority's rules and regulations.

Please be advised that all exposed pits, including lined pits and open tanks (exceeding 16 feet in diameter) shall be screened, netted or otherwise rendered nonhazardous to wildlife including migratory birds.

Larry Campbell GW-052 January 30, 2001 Page 2

Please note that Section 3104 of the regulations provides: "When a plan has been approved, discharges must be consistent with the terms and conditions of the plan." Pursuant to Section 3107.C, **Transwestern Pipeline Company** is required to notify the Director of any facility expansion, production increase or process modification that would result in any change in the discharge of water quality or volume.

Pursuant to Section 3109.H.4, this renewal plan is for a period of five years. This renewal will expire on November 9, 2005, and Transwestern Pipeline Company should submit an application in ample time before this date. Note that under Section 3106.F of the regulations, if a discharger submits a discharge plan renewal application at least 120 days before the discharge plan expires and is in compliance with the approved plan, then the existing discharge plan will not expire until the application for renewal has been approved or disapproved. It should be noted that all discharge plan facilities will be required to submit the results of an underground drainage testing program as a requirement for discharge plan.

The discharge plan renewal application for the **Transwestern Pipeline Company Roswell Compressor Station** is subject to WQCC Regulation 3114. Every billable facility submitting a discharge plan application will be assessed a fee equal to the filing fee of \$50.00. There is a renewal flat fee assessed for gas compressor station facilities with horsepower rating greater than 3,000 horsepower equal to one-half of the original flat fee or \$690.00. The OCD has received the filing fee.

On behalf of the staff of the OCD, I wish to thank you and your staff for your cooperation during this discharge plan review.

Sincerely,

Roger C. Anderson

Chief, Environmental Bureau Oil Conservation Division

RCA/eem Attachment

Xc: OCD Artesia Office

Larry Campbell GW-052 January 30, 2001 Page 3

# ATTACHMENT TO THE DISCHARGE PLAN RENEWAL GW-052 TRANSWESTERN PIPELINE COMPANY ROSWELL COMPRESSOR STATION DISCHARGE PLAN APPROVAL CONDITIONS

January 30, 2001

- Payment of Discharge Plan Fees: The \$50.00 filing fee has been received by the OCD. There is a required flat fee equal to one-half of the original flat fee for natural gas compressor stations with horsepower rating greater than 3,000 horsepower. The renewal flat fee required for this facility is \$690.00 which may be paid in a single payment due at the time of approval, or in equal annual installments over the duration of the discharge plan, with the first payment due upon receipt of this approval. The filing fee is payable at the time of application and is due upon receipt of this approval. All checks are to be made payable to Water Quality Management Fund and forwarded to the OCD Santa Fe Office. Please note new mailing address on letterhead.
- 2. <u>Commitments:</u> Transwestern Pipeline Company will abide by all commitments submitted in the discharge plan renewal application letter dated May 30, 2000 and these conditions for approval.
- 3. Waste Disposal: All wastes will be disposed of at an OCD approved facility. Only oilfield exempt wastes shall be disposed of down Class II injection wells. Non-exempt oilfield wastes that are non-hazardous may be disposed of at an OCD approved facility upon proper waste determination per 40 CFR Part 261. Any waste stream that is not listed in the discharge plan will be approved by OCD on a case-by-case basis.
- 4. <u>Drum Storage</u>: All drums containing materials other than fresh water must be stored on an impermeable pad with curbing. All empty drums will be stored on their sides with the bungs in and lined up on a horizontal plane. Chemicals in other containers such as sacks or buckets will also be stored on an impermeable pad and curb type containment.
- 5. <u>Process Areas:</u> All process and maintenance areas which show evidence that leaks and spills are reaching the ground surface must be either paved and curbed or have some type of spill collection device incorporated into the design.
- 6. <u>Above Ground Tanks:</u> All above ground tanks which contain fluids other than fresh water must be bermed to contain a volume of one-third more than the total volume of the largest tank or of all interconnected tanks. All new tanks or

Larry Campbell GW-052 January 30, 2001 Page 5



- 13. <u>Spill Reporting:</u> All spills/releases will be reported pursuant to OCD Rule 116 and WQCC 1203 to the OCD Artesia District Office.
- 14. <u>Transfer of Discharge Plan:</u> The OCD will be notified prior to any transfer of ownership, control, or possession of a facility with an approved discharge plan. A written commitment to comply with the terms and conditions of the previously approved discharge plan must be submitted by the purchaser and approved by the OCD prior to transfer.
- 15. Storm Water Plan: The facility will have an approved storm water run-off plan.
- 16. Closure: The OCD will be notified when operations of the Roswell Compressor Station are discontinued for a period in excess of six months. Prior to closure of the Roswell Compressor Station, the Director will submit a closure plan for approval. Closure and waste disposal will be in accordance with the statutes, rules and regulations in effect at the time of closure.
- 17. Conditions accepted by: Transwestern Pipeline Company, by the officer whose signature appears below, accepts this permit and agrees to comply with all terms and conditions contained herein. Transwestern Pipeline Company further acknowledges that these conditions and requirements of this permit may be changed administratively by the Division for good cause shown as necessary to protect fresh water, human health and the environment.

Transwestern Pipeline Company
Print Name: LARRY CAMPOE !!
Signature: Sarry Campbell
Title: Division Environmetal Specialist
Date: 02/02/01



Transwestern Pipeline Company P. O. Box 1188

Houston, TX 77251-1188

February 19, 2002

Mr. William C. Olson Environmental Bureau New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Mr. David Cobrain Hazardous Waste Bureau New Mexico Environment Department 2905 Rodeo Park Dr. East, Bldg. 1 Santa Fe, New Mexico 87505

RE: Schedule for Excavation of Affected Soil

Roswell Compressor Station Transwestern Pipeline Company

The excavation work originally scheduled for December 2001 has been rescheduled to begin on February 25, 2002. Please call George Robinson at (713) 646-7327 if you have any questions or comments regarding the schedule.

Sincerely,

William A. Kendrick

Director, Environmental Affairs

xc: Larry Campbell

George Robinson

Transwestern Pipeline Co.

Tim Gum

Cypress Engineering OCD Artesia Office

#### Olson, William

From:

Robinson, George [George.Robinson@ENRON.com]

Sent: To: Tuesday, February 19, 2002 2:43 PM

10:

David Cobrain (E-mail); Bill Olson (E-mail)

Cc: Campbell, Larry; Kendrick, William

The excavation of the former impoundments at the NE corner of the site is scheduled to start on Monday, February 25, 2002. If there are any questions regarding this schedule or the excavation activities please contact me at (713) 345-1537. I will follow-up with a written confirmation of the scheduled start date.

-George

George C. Robinson, PE Contract Environmental Engineer Cypress Engineering ENRON Office: (713) 345-1537 ENRON email: george.robinson@enron.com

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\*\*\*\*\*\*\*\*\*\*\*\*\*\*

117-52

#### Olson, William

From:

Robinson, George [George.Robinson@ENRON.com]

Sent:

Tuesday, February 19, 2002 2:43 PM

To: Cc:

David Cobrain (E-mail); Bill Olson (E-mail)

Campbell, Larry; Kendrick, William

The excavation of the former impoundments at the NE corner of the site is scheduled to start on Monday, February 25, 2002. If there are any questions regarding this schedule or the excavation activities please contact me at (713) 345-1537. I will follow-up with a written confirmation of the scheduled start date. -George

George C. Robinson, PE Contract Environmental Engineer Cypress Engineering ENRON Office: (713) 345-1537

ENRON email: george.robinson@enron.com

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

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#### Olson, William

From:

Robinson, George [George.Robinson@ENRON.com]

Sent:

Friday, November 30, 2001 1:38 PM

To:

David Cobrain (E-mail); Bill Olson (E-mail)

Cc:

Campbell, Larry; Kendrick, William

Subject:

FW: TW Roswell Station Excavation Activities

The excavation work scheduled to start next Tuesday is postponed to a later date. We anticipate that the work will be rescheduled to a date sometime prior to January 31, 2002. If there are any questions regarding the rescheduling of the work please contact me at (713) 646-7327. Thanks, George

```
----Original Message----
> From:
            Robinson, George
           Wednesday, November 21, 2001 1:52 PM
> Sent:
> To: David Cobrain (E-mail); Bill Olson (E-mail)
> Cc: Campbell, Larry; Kendrick, William
> Subject: TW Roswell Station Excavation Activities
> The excavation of the former impoundments at the NE corner of the site
> is scheduled to start on Tuesday, December 4th. If there are any
> questions regarding this schedule or the excavation activities please
> contact me at (713) 646-7327.
> Thanks
> George
> George C. Robinson, PE
> Contract Environmental Engineer
> Cypress Engineering
> ENRON Office: (713) 646-7327
> ENRON email: george.robinson@enron.com
```

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

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\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*



## State of New Mexico VIRONMENT DEPARTMENT

Hazardous Waste Bureau
2905 Rodeo Park Drive East, Building 1
Santa Fe, New Mexico 87505-6303
Telephone (505) 428-2500
Fax (505) 428-2567



PETER MAGGIORE
SECRETARY

www.nmenv.state.nm.us

### CERTIFIED MAIL RETURN RECEIPT REQUESTED

November 5, 2001

Mr. Larry Campbell Transwestern Pipeline Company 6381 North Main Street Roswell, New Mexico 88201

SUBJECT: WORK PLAN FOR EXCAVATION OF AFFECTED SOIL

ROSWELL COMPRESSOR STATION, EPA ID# NMD986676955

HWB-TWP-01-001

Attention: Mr. Larry Campbell

The New Mexico Environment Department Hazardous Waste Bureau (HWB) has completed a review of Transwestern Pipeline Company's submittal "Work Plan for Excavation of Affected Soil in the Former Surface Impoundment Areas" dated July 2, 2001. The work plan addresses the results of the characterization of waste and contaminated soil at the location of the closed surface impoundments and the removal of the surface impoundments at the Transwestern Pipeline Company Compressor Station Number 9 (EPA ID# NMD986676955) located in Roswell, New Mexico. Based on the information provided in the work plan, HWB approves of the proposed excavation and remediation activities. The approval is conditional upon approval of the work plan by the New Mexico Department of Energy, Minerals and Natural Resources Oil Conservation Division. Please call this office at (505) 248-2553 if you have questions regarding the conditional approval of the Work Plan.

Sincerely,

Dave Cobrain

Geologist

Permits Management Program

**DWC** 

Transwestern Pipeline Company November 5, 2001 Page 2

cc: James Bearzi, NMED HWB

John Kieling, NMED HWB

William Kendrick, Transwestern Pipeline Company

Bill Olson, NMOCD Ed Martin, NMOCD

George Robinson, Cypress Engineering Services, Inc.

Pam Allen, NMED HWB

file:

red/TWP/01

track:

TWP/Campbell/Cobrain/11-05-01/approval work plan surface impoundments soil excavation

#### Olson, William

From:

Robinson, George [George.Robinson@ENRON.com]

Sent:

Wednesday, November 21, 2001 12:52 PM David Cobrain (E-mail); Bill Olson (E-mail)

To: Cc:

Campbell, Larry; Kendrick, William

Subject:

TW Roswell Station Excavation Activities

The excavation of the former impoundments at the NE corner of the site is scheduled to start on Tuesday, December 4th. If there are any questions regarding this schedule or the excavation activities please contact me at (713) 646-7327.

Thanks George

George C. Robinson, PE Contract Environmental Engineer

Cypress Engineering

ENRON Office: (713) 646-7327

ENRON email: george.robinson@enron.com

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

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# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

November 19, 2001

#### <u>CERTIFIED MAIL</u> RETURN RECEIPT NO. 5357-8031

Mr. Bill Kendrick
Transwestern Pipeline Company
P.O. Box 1188
Houston, Texas 77251-1188

...., .....,

RE: SOIL REMEDIATION WORK PLAN ROSWELL COMPRESSOR STATION CASE # GW052R

Dear Mr. Kendrick:

The New Mexico Oil Conservation Division (OCD) has reviewed Transwestern Pipeline Company's (TPC) October 22 "WORK PLAN FOR EXCAVATION OF AFFECTED SOIL, ROSWELL COMPRESSOR STATION, TRANSWESTERN PIPELINE COMPANY". This document contains the results of TPC's characterization of soils in the former pit areas at the TPC Roswell Compressor Station. The document also contains a work plan for excavation and remediation of contaminated soils from the pits.

The above-referenced work plan is approved with the following conditions:

- 1. All soil samples shall be obtained and analyzed using EPA approved methods and quality assurance/quality control (QA/QC) procedures.
- 2. The pit excavation and remediation report shall be submitted to the OCD Santa Fe Office by January 11, 2002 with a copy provided to the OCD Artesia District Office. The report shall contain:
  - a. A description of the remediation activities which occurred including conclusions and recommendations.
  - b. Site maps showing the excavations, former pits, tanks, sample locations and any other pertinent site features.
  - c. Summary tables of all soil sampling results and copies of all laboratory analytical data sheets and associated QA/QC data.

Mr. Bill Kendrick November 19, 2001 Page 2

3. TPC shall notify the OCD at least 1 week in advance of the scheduled activities such that the OCD has the opportunity to witness the events and split samples.

Please be advised that OCD approval does not limit TPC to the above-referenced work plan if the activities fail to adequately remediate contamination related to TPC's activities, or if contamination exists which is outside the scope of the work plan. In addition, OCD approval does not relieve TPC of responsibility for compliance with any other federal, state or local laws and regulations.

If you have any questions, please contact me at (505) 476-3491.

Sincerely,

William C. Olson

Hydrologist

Environmental Bureau

xc: Tim Gum, OCD Artesia Office

Mike Matush, NM State Land Office

George Robinson, Cypress Engineering Services, Inc.

Dave Cobrain, NMED Hazardous Waste Bureau



GARY E. JOHNSON GOVERNOR

## State of New Mexico FOYIRONMENT DEPARTMENT

Hazardous Waste Bureau
2905 Rodeo Park Drive East, Building 1
Santa Fe, New Mexico 87505-6303
Telephone (505) 428-2500
Fax (505) 428-2567

www.nmenv.state.nm.us



PETER MAGGIORE
SECRETARY

PAUL R. RITZMA DEPUTY SECRETARY

### CERTIFIED MAIL RETURN RECEIPT REQUESTED

August 15, 2001

Mr. Larry Campbell Transwestern Pipeline Company 6381 North Main Street Roswell, New Mexico 88201

**SUBJECT:** 

SOIL CHARACTERIZATION, SURFACE IMPOUNDMENTS ROSWELL COMPRESSOR STATION, EPA ID# NMD986676955

HWB-TWP-01-001

Attention: Mr. Larry Campbell

The New Mexico Environment Department Hazardous Waste Bureau (HWB) has completed a review of Transwestern Pipeline Company's submittal "Work Plan for Characterization of Affected Soil in the Former Surface Impoundment Areas" dated July 2, 2001. The work plan addresses characterization of waste and contaminated soil at the location of closed surface impoundments at the Transwestern Pipeline Company Compressor Station Number 9 (EPA ID# NMD986676955). Based on the information provided in the work plan, HWB approves of the proposed characterization activities. The approval is conditional upon approval of the work plan by the New Mexico Department of Energy, Minerals and Natural Resources Oil Conservation Division. Please call this office at (505) 248-2541 if you have questions regarding the conditional approval of the Work Plan.

Sincerely,

Dave Cobrain

Geologist

Permits Management Program

Transwestern Pipeliine Company August 15, 2001 Page 2

#### **DWC**

cc:

James Bearzi, NMED HWB

John Kieling, NMED HWB

Bill Olson, NMOCD Ed Martin, NMOCD

George Robinson, Cypress Engineering Services, Inc.

Pam Allen, NMED HWB

file:

red/TWP/01

track:

TWP/Campbell/Cobrain/08-15-01/approval work plan surface impoundments soil characterization



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

August 17, 2001

#### <u>CERTIFIED MAIL</u> RETURN RECEIPT NO. 3771-7491

Mr. Bill Kendrick Transwestern Pipeline Company P.O. Box 1188 Houston, Texas 77251-1188

RE: C

CASE # GW052R

WASTE CHARACTERIZATION WORK PLAN

**ROSWELL COMPRESSOR STATION** 

Dear Mr. Kendrick:

The New Mexico Oil Conservation Division (OCD) has reviewed Transwestern Pipeline Company's (TPC) July 2, 2001 "WORK PLAN FOR CHARACTERIZATION OF AFFECTED SOIL IN THE FORMER SURFACE IMPOUNDMENT AREAS, TRANSWESTERN PIPELINE COMPANY, ROSWELL COMPRESSOR STATION, CHAVES COUNTY, NM". This document contains TPC's proposed work plan for characterizing wastes in the former impoundments at the TPC Roswell Compressor Station.

The work plan as contained in the above-referenced document is approved with the following conditions:

- 1. All samples shall be obtained and analyzed using EPA approved methods and quality assurance/quality control procedures.
- 2. The waste characterization report shall be submitted to the OCD Santa Fe Office by October 17, 2001 with a copy provided to the OCD Artesia District Office. The report shall contain:
  - a. A description of the investigation activities which occurred including conclusions and recommendations.
  - b. A geologic/lithologic log for each trench which includes visual observations of contamination and field soil organic vapor measurements.

Mr. Bill Kendrick August 17, 2001 Page 2

- c. Site maps showing the location of the trenches, former pits, tanks, sample locations and any other pertinent site features.
- d. Summary tables of all sampling results and copies of all laboratory analytical data sheets and associated QA/QC data.
- 3. TPC shall notify the OCD at least 1 week in advance of the scheduled activities such that the OCD has the opportunity to witness the events and split samples.

Please be advised that OCD approval does not limit TPC to the above-referenced work plan if the investigation activities fail to adequately determine the extent of contamination related to TPC's activities, or if contamination exists which is outside the scope of the work plan. In addition, OCD approval does not relieve TPC of responsibility for compliance with any other federal, state or local laws and regulations.

If you have any questions, please contact me at (505) 476-3491.

Sincerely,

William C. Olson

Hydrologist

Environmental Bureau

xc: Tim Gum, OCD Artesia Office

Mike Matush, NM State Land Office

George Robinson, Cypress Engineering Services, Inc.

Dave Cobrain, NMED Hazardous Waste Bureau



10235 West Little York Road, Suite 256 Houston, Texas 77040

(713) 856-7980 office (713) 856-7981 fax

July 26, 2001

Mr. David Cobrain Hazardous Waste Bureau New Mexico Environment Department 2905 Rodeo Park Dr. East, Bldg. 1 Santa Fe, NM 87505 RECEIVED

AUG 0 1 2001

ENVIRONMENTAL BUREAU OIL CONSERVATION DIVISION

RE: Work Plan for Characterization of Affected Soil Roswell Compressor Station Transwestern Pipeline Company

Dear David,

The enclosed work plan is submitted for your review and approval. Transwestern is ready to proceed with implementing the work plan upon approval from the NMOCD and the NMED HWB. Please call me if you have any questions or comments regarding the work plan. I can be reached at (713) 646-7644.

Sincerely,

George C. Robinson, P.E. President/Principal Engineer

xc: (without attachments)

Larry Campbell

Transwestern Pipeline Co.

Bill Olson NMO

**NMOCD** 

## **Work Plan for Characterization of Affected Soil in the Former Surface Impoundment Areas**

Transwestern Pipeline Company Roswell Compressor Station Chaves County, New Mexico

Submitted to:
New Mexico Oil Conservation Division
and
New Mexico Environment Department
Hazardous and Radioactive Materials Bureau

July 2, 2001

Environmental Bureau Oil Conservation Division

1005 6 0 JUL

**KECEINED** 

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

Prepared by: Cypress Engineering Services, Inc. 10235 West Little York Road, Suite 256 Houston, Texas 77040

#### TABLE OF CONTENTS

Sect	tion	Page
1.0	Work Plan Objectives	1
2.0	Site Background	1
3.0	Waste Characterization Activities	2
4.0	Reporting and Development of a Removal Work Plan	2

#### LIST OF FIGURES

#### **Figure**

- 1 Facility Site Map
- 2 Soil Boring and Well Locations
- 3 Proposed Trench Locations

#### LIST OF ATTACHMENTS

- 1 Soil Boring Logs for Selected Soil Borings (copied from prior site assessment reports)
- 2 Summary of Detected Compounds for Pit Soil Samples (copied from the Phase I Assessment Report dated November 8, 1995)

## **Work Plan for Characterization of Affected Soil in the Former Surface Impoundment Areas**

#### 1. Work Plan Objectives

The objective of this work plan is to characterize affected soil located in the immediate vicinity of two former surface impoundments at the Transwestern Pipeline Company (Transwestern) Roswell, New Mexico, Compressor Station No. 9. This work plan is the first stage of active remediation measures designed to achieve a broader objective to remediate soil and groundwater affected by a release from the former impoundments.

This work plan will be implemented upon approval by the New Mexico Oil Conservation Division (OCD) and the New Mexico Environment Department Hazardous and Radioactive Materials Bureau (NMED HRMB).

The development of subsequent work plans for the removal of affected soil will be based upon the results from the waste characterization activities described in Section 3 of this work plan.

#### 2. Site Background

A thorough description of the facility and the history and operation of the former surface impoundments was provided in a previous report submitted to the OCD and the NMED HRMB. This report was titled "Corrective Action Plan for Roswell Compressor Station No. 9 Surface Impoundments", dated January 31, 1997. The location of the two impoundments relative to other facility features is indicated in Figure 1.

A brief physical description of the two former surface impoundments is presented as follows:

Impoundment	Approximate Dimensions	Date Constructed	Date Backfilled
Pit 1	40' x 70' (rectangular)	Between 7/61 & 10/72	6/86
Pit 2	70' diameter (circular)	Before 7/61	Before 2/77

It is estimated that the impoundments were at most 10 feet deep. Therefore, the maximum volumes of Pits 1 and 2 during their operational lifetimes were approximately 1000 and 1400 cubic yards, respectively.

#### 3. Waste Characterization Activities

Three trenches will be excavated within each former pit area in order to collect samples for RCRA waste characterization (six trenches total). The trenches will be excavated using a trackhoe. Each trench will be approximately 20 feet in length and excavated to a maximum depth of 14 feet bgs. The trenches in the Pit 1 area will be oriented east-west and spaced equally along the long axis of the former pit area as indicated in Figure 3. The trenches in the Pit 2 area will be oriented north-south and spaced equally within the former pit area.

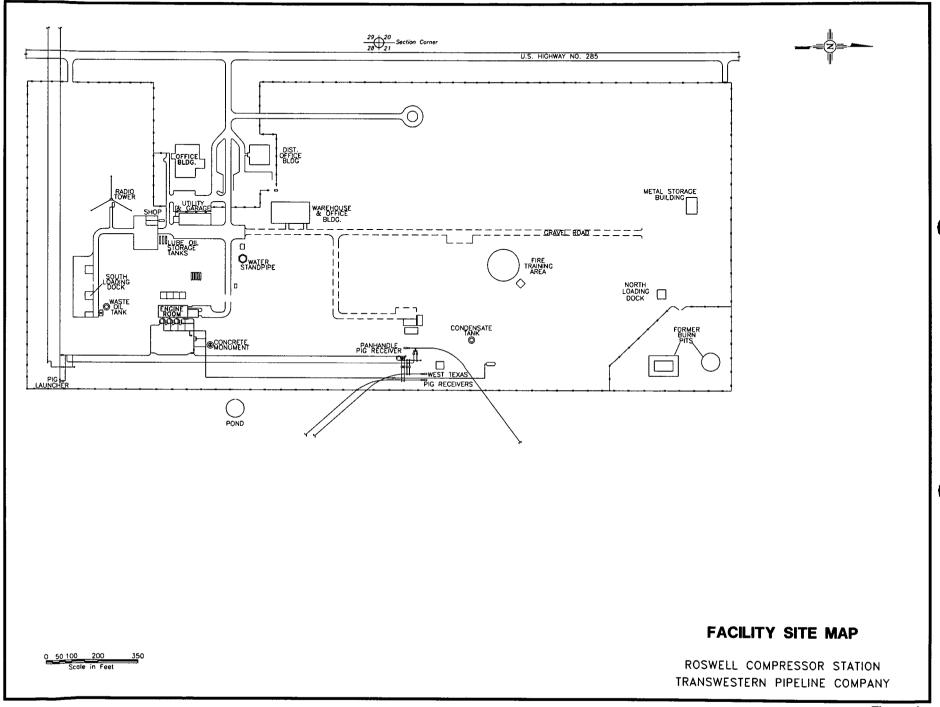
One sample will be obtained from each trench at depths of 4 feet bgs, 8 feet bgs, and 12 feet bgs (that is, 3 samples from each trench). The proposed sample depths are based upon prior assessment borings that indicate the base of the former impoundment was no more than 14 feet bgs. Based upon field observations, an attempt will be made to obtain the most heavily affected material for characterization. In addition, two blind duplicate samples will be collected for quality assurance purposes. This activity will generate a total of 20 samples for waste characterization.

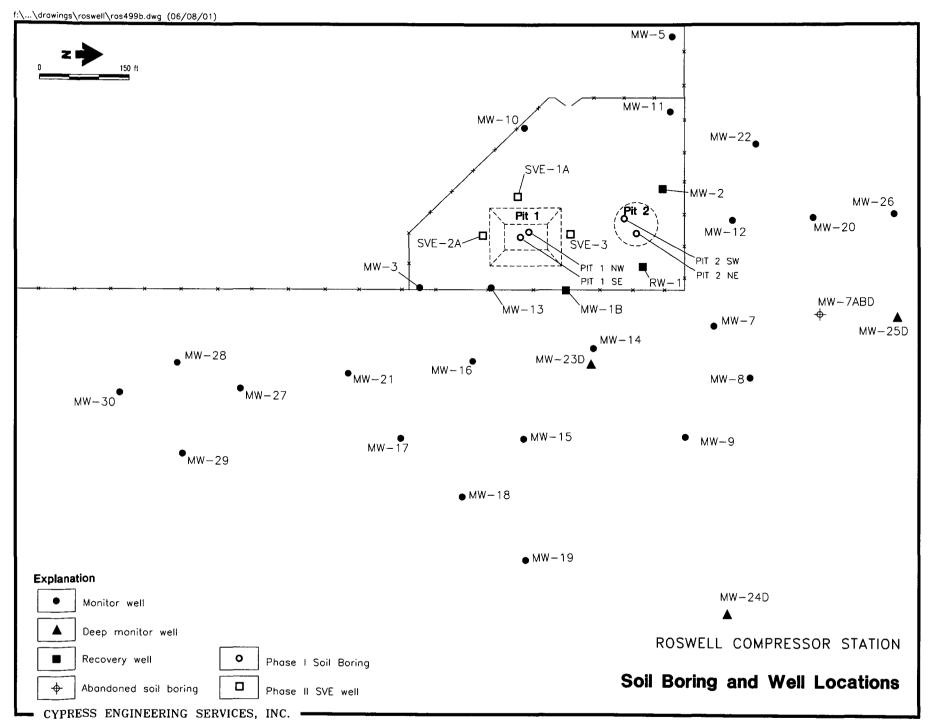
Laboratory analysis for RCRA waste characterization will include TCLP volatiles, TCLP semi-volatiles, TCLP metals, ignitability, corrosivity, and reactivity. In addition, the sample analysis plan will include Total Petroleum Hydrocarbons (TPH) by method 8015mod (GRO & DRO). Based upon laboratory analysis obtained in the course of prior assessment activities, it is anticipated that samples collected in the course of this activity will not be characteristically hazardous per RCRA regulation.

At the conclusion of sampling activities, excavated soil will be pushed back into the trench from where the soil originated.

#### 4. Reporting and Development of a Removal Work Plan

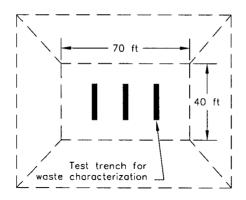
A waste characterization report will be developed upon review of the laboratory results. This report will include a description of waste characterization activities and a comparison of laboratory results to RCRA hazardous waste characterization criteria. Subsequently, a work plan for removal of affected soil will be developed based upon the results of the waste characterization.



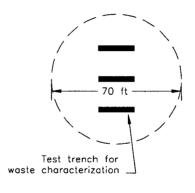




Pit 1



Pit 2



ROSWELL COMPRESSOR STATION

**Proposed Trench Locations** 

### Work Plan for Characterization of Affected Soil in the Former Surface Impoundment Areas

Transwestern Pipeline Company Roswell Compressor Station Chaves County, New Mexico

### Attachment

Selected Soil Boring Logs and Summary of Lab Results for Pit Area Soil Samples

4115\4115F	- Ground Surface	Graphic Log	PID Reading (ppm) 1.3 1.3 13.6 19.1	Split spoon Split spoon Split spoon Split spoon	Comments and Lithology  0-4 - Gravelly silt sand 1 - Light brown (7.5 YR 5/4); well~graded, dry, gravel (opproximately 20%), silt (approximately 20%) 2 - Caliche cooting of gravels common; no noticeable petroleum odor 4-8 - Same as above; very maist; naticeable hydrocarbon odor; may be backfill over pit contents
. 10	Cement Grout Surface to 12.0'  T.D.=12.0'		20.4	Split spoon	B-12 - Gravelly sand/sludge; saturated, oil, stained (black) sond; very strong odor; noticeably aily .
Feet below ground surface	- - - - - -				
₹ 40 50	- - -	.			
60	- - - - - - -				
70	- - - - - -				

Hydrologists: J. Kirby Driller: Harrison Environmental Date Completed: 8/18/95

Drilling Method: Hollow stem auger Bit Diameter: 8.5 in. O.D.

ROSWELL COMPRESSOR STATION Boring Log: Pit 1, NW



	Graphic PID Log Readir (ppm	Sampling Device	Comments and Lithology
- Ground Surface	GM/SW-75 SW-253 293 326 225 GC/GM-132 NA	Split spoon	0-2 - Gravelly sand; light brown (7.5 YR 6/4); poorly sorted; approximately 40% gravel size); sand-sitt-gravel backfill; dry; strong petroleum odor 2-4 - Gravelly sand; as obove (approximately 20% gravels); slightly maist; strong odor 4-6 - As obove; wood fragments common; very maist; strong petroleum odor 6-8 - Clayey gravel; pit backfill; no wood present; saturated with a water/oil sludge mixture; very strong odor 8-10 - Same as above 10-12 - Same as above 12-14 - Split spoon sample with brass rings; same as above; encounter native soil at 14'
50			•
70 80			

Drilling Method: Hollow stem auger Bit Diameter: 8.5 in. O.D.

Hydrologists: J. Kirby Driller: Harrison Environmental Date Completed: 8/18/95

DANIEL B. STEPHENS & ASSOCIATES, INC.-JN 4115

ROSWELL COMPRESSOR STATION

Boring Log: Pit 1, SE

	Graphic Log	PID Reading (ppm)	Sampling Device	Sample interval (feet bgs)	Comments and Lithology
<u> </u>					0 — Sandy silt with gravel (ML); light brown (7.5 YR 6/3); gravel to 3/4" dio. in sandy silt matrix; poorly sorte uncansalidated; dry; 20% gravel, 15% sand, 65% silt
	M	301	Split Spoon	5-6.5	5 — Gravelly silt with sand (ML); white (10 YR 8/1); gravel to 2" in dia. in a sandy silt matrix; poorly sorted; unconsolidated; dry; calcareous; 35% gravel, 25% sand, 40% silt
10 -		2.2	Spiil Speen	10-11.5	10 — Gravelly silt with sand (ML); some as obove, except gravel to 3° in dia. in cuttings
	5 <b>W</b>	129	Split Spoon	15-16.5	15 — Sond with gravel and silt (SW); dark gray (7.5 YR 4/1); gravel to 1/2" in dia. in matrix of silty sand; poorly sarted; angular closts; unconsolidated; damp; hydrocorban ador and highly stained
20 - Cement/Bentonite Grout 0.0'-60.0'		74	Split Spoon	20-21.5	20 - Clayey sand (SC) to 21'; gravel with sand (GW) below 21'; clayey sand; reddish brown (5 YR 5/4); medium-grained; poorly sarted; moist; contact at 21' with gravel; unconsolidated
		13	Split Spoon	25-26.5	25 — Gravel with sond (GW); light brown (7.5 YR 6/4); gravel in sond with silt matrix; gravel to 2" in. dia.; poorly sorted; subangular to rounded clasts; unconsolidated; damp; 60% gravel, 30% sond, 10% silt
30 -		3.6	Split Spoon	30-31.5	30 — Gravel with sond (GW); some as obove; at 31° clayey sond; yellow red (5 YR 5/8); very fine— to fine—grained; moderately sorted; rounded grains; unconsolidated; moist; moderate plasticity; 70% sond, 30% clayers.
40		8.0	Split Spoon	35-36.5	35 - Cloyey sand (SC); same as obove; at 36' fat clay with sand; dark red (2.5 YR 4/6); high plasticity; unconsolidated; maist; 15% sand, 85% clay
40		121	Split Spoon	40-41.5	40 — Fat clay (CH); dark red (2.5 YR 4/8); high plasticity; unconsolidated; maist; little or no sand
		5	Split Spoon	45-46.5	45 — Fat clay (CH); dark red (2.5 YR 4/6); high plasticity; unconsolidated; wet; slightly friable
50 -	SP	4.9	Split Spoon	50-51.5	50 — Sand with silt (SP); weok red (2.5 YR 6/4); very fine— to fine—grained; maderately sorted; rounded grains; unconsolidated; damp to maist; nonplastic
		1.5	Split Spoon	55-56.5	55 — Fat clay (CH); red (2.5 YR 5/6); high plasticity; unconsolidated; wet; encounter fat clay at 55.5'
60 - T.D.=60.0°		0.7	Split Spoon	60-61.5	60 — Fat clay (CH); same as above, only maist, not wet
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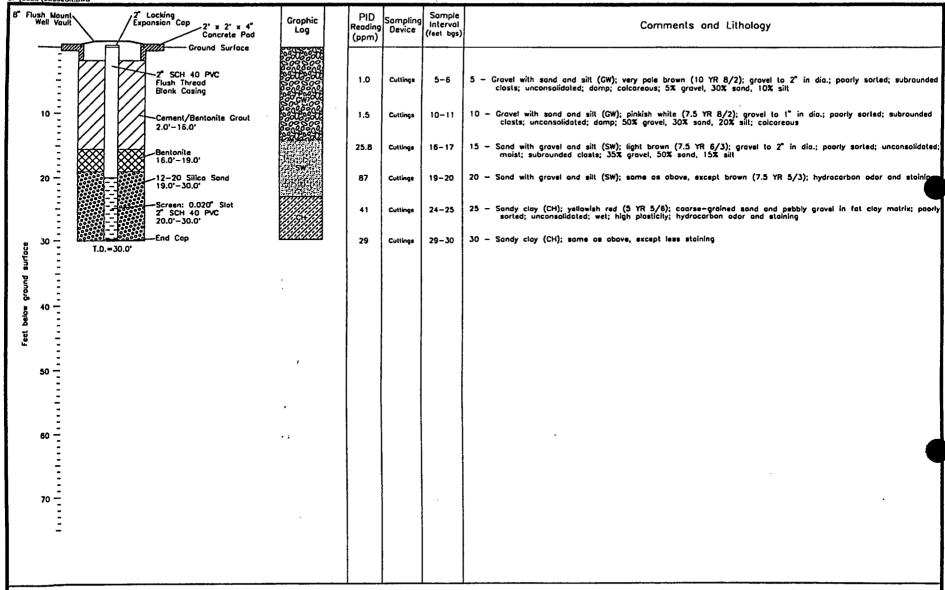
Geologist: Pigman Driller: Layne Environmental Service Date completed: 9-21-96

Drilling method: Hollow stem auger Bit diameter: 8.5 in. 0.D.

ROSWELL COMPRESSOR STATION Boring Log: SVE-1



OP\ 6033\ 603323R.DWG



Geologist: Pigman

Drilling method: Hollow stem auger

Driller: Layne Environmental Service

Bit diameter: 8.5 in. O.D.

Date completed: 9-21-96

ROSWELL COMPRESSOR STATION
Well Log: SVE-1A



	Graphic Log PID Reading (ppm)	9 Device	Sample Interval (feet bgs)	Comments and Lithology
	0.0	Split Spoon	5-6.5	5 — Grovelly sand (SW); pink (7.5 YR 7/3); gravel to 3/4" in dia. in motrix of poorly sorted sands; subrounded closts; unconsolidated; maist; 25% gravel, 60% sand
Cement/Bentonite Grout		Split Spoon/ Cultings	10-11.5	10 Grovelly sand (SW); same as above, except gravel to 1" in dia.
	0.4	Spill Spoon, Cuttings	15-16.5	15 — Gravelly sand (SW); some as above; more gravelly; 40% gravel, 40% sand; 15 to 20% silt; gravel to 1 in. dio. (cuttings)
20 -	0.2	Split Spaan, Cuttings	20-21.5	20 - Grovelly sand (SW); same as obove (cuttings)
	50 50 50 50 50 50 50 50 50 50	Split Spoon	25-27.5	25 — Gravel (GW); brown (7.5 YR 5/2); gravel to 3/4" dio.; poorly sorted; angular to rounded closts; unconsolidated; moist; 85% gravel, 10% sond, 5% lines; strong hydrocarbon odor
30 -	181	Split Spaan	30-31.5	30 — Fat clay (CH); yellowish red (5 YR 5/6); high plasticity; maist; unconsolidated; strong hydrocarbon ador
<u> </u>	21	Split Spoon	35-36.5	35 — Fot clay (CH); yellowish red (5 YR 4/6); high plasticity; malst; unconsolidated
40 =	CH 13.8	Split Spoon	40-41.5	40 — Fat cloy (CH); some as above; just damp (much drier)
	1.9	Split Spoon		45 — Fat clay (CH); some as above; damp to maist
50 -	2.4	Split Spoon	50-51.5	50 — Sond (SP) and clayey sand (SC); dark red (2.5 YR 4/8); very fine-grained to fine-grained; well to moderately sorted; rounded grains; unconsolidated; wet; 70 to 95% sand
	2.8	Split Spaan	55-56.5	55 — Clayey sand (SC); red (2.5 YR 5/6); very fine-grained sand; moderately to well sorted; rounded grains; unconsolidated; wet to saturated; 85% sand, 15% clay
80 -	0.0	Split Spaan	60-61.5	60 — Fol clay (CH); yellowish red (5 YR 4/8); high plasticity; unconsolidated; maist to wet; drier than above sand
T.D.=65.0'	0.2	Split Spoon	65-66.5	65 - Sand with clay (SP); yellowish red (5 YR 4/6); medium-grained; moderately sorted; rounded grains; unconsolidated; saturated; 85% sand, 15% clay
70 -				·
	20	Cement/Bantonite Grout 0.0  0.0  0.0  0.0  0.0  10  10  10  10	Cement/Bentonite Grout	Carpent   Carp

Drilling method: Hollow stem auger Bit diameter: 8.5 in. O.D.

Geologist: Pigman Driller: Loyne Environmentol Service Date completed: 9-21-96

ROSWELL COMPRESSOR STATION Boring Log: SVE-2



### Now Provided Comment Comments and Lithology   Comments and Lithology   Comments and Lithology	UF\BUJJ\B	いコンとつべいから				,	,	
Cement/Bestonic Grout 2.0—13.6  Cautileys  D. Cautileys  D	8" Flush Wei	Mount Voult			Reading		Intervol	. Comments and Lithology
1	Feet below ground surface		Cround Surface  2" SCH 40 PVC Flush Thread Blank Cosing  Cement/Bentonite Grout 2.0'-13.6'  Bentonite 13.6'-17.5'  12-20 Silico Sand 17.5'-30.0'  Screen: 0.020' Slot 2' SCH 40 PVC 20.0'-30.0'  End Cap	SW	0.0 3.0 2.0 2.0	Cuttings Cuttings Cuttings Cuttings Cuttings	0-5 5-10 10-15 15-20 20-25	5 - Gravelly sand (SW); pink (7.5 YR 8/3); gravel to 3/4° dia. in matrix of poorly sorted fine to medium sands; subrounded clasts; unconsolidated; moist; 25% gravel, 75% sand  10 - Gravelly sand (SW); pink (7.5 YR 8/3); gravel to 1 inch in dia. in matrix of poorly sorted fine to medium sands; same as above  15 - Gravelly sand (SW); light brawn (7.5 YR 6/4); gravel to 1° in dia.; poorly sorted; angular gravels; unconsolidated; maist; 60% gravel, 40% sand; hydrocarbon ador  20 - Sandy gravel (GW); light brawn (7.5 YR 6/4); gravel to 1° in dia.; poorly sarted; angular gravels; unconsolidated; maist; 60% gravel, 40% sand; hydrocarbon ador  25 - Sandy gravel (GW); same as above, except 75% gravel, 25% sand; strong hydrocarbon ador

Drilling method: Hollow stem auger Bit diameter: 8.5 in. O.D.

Geologist: Roth Driller: Layne Environmental Service Date completed: 9-20-96

ROSWELL COMPRESSOR STATION

Well Log: SVE-2A



	33/003340K.U			<del></del>	<del></del>		
8 6	lush Mount Well Vouit		2' x 2' x 4" Concrete Pad  Graphic Log	PID Readin (ppm)		Somple Interval (feet bgs)	Comments and Lithology
	10 —	2" SCH 40 Flush Thread		0.0	Split Spaan	5-6.5 10-11.5	<ul> <li>5 - Grovelly sand with clay (SW); reddish brown (5 YR 5/3); grovel to 3/4" dia.; paorly sorted; angular to subrounded clasts; unconsolidated; moist; 30% gravel, 50% sand, 20% fines</li> <li>10 - Gravelly sand with silt (SW); pinkish white (7.5 YR 8/2); gravel to 2" in dia.; poorly sorted; angular to subrounded clasts; unconsolidated; damp; 40% gravel, 15% sond, 15% silt; highly calcareous (caliche)</li> </ul>
	- -	Blank Cosing		0.0	Split Spaan	15-16.5	15 — Gravelly sand (SW); light brown (7.5 YR 6/4); gravel to 1/2" in dia.; poorly sorted; subangular clasts; unconsolidated; maist; 30% gravel, 55% sand, 5% fines (silt)
	20 -	Cernent/Ben 2.0'-25.9'	tonite Grout	0.0	Split Spoon	20-21,5	20 Grovelly sand (SW); same as above
		Bentanite 25.9'-29.5'		0.0	Split Spoon	25-26.5	26 — Grovelly sond (SW); same as obove; at 26', encounter fat clay
surface	30 -			0.3	Spilt Spoon	30-31.5	30 - Fat clay (CH): reddish brown (5 YR 4/4); high plasticity; unconsolidated; malst; fissile at 31' encounter silty sond with gravel; at 33', encounter sandy clay; red (2.5 YR 5/6); highly plastic; unconsolidated; wet; strong hydrocarbon odar; 50% clay, 50% very fine-grained sand
ground su	<del>-</del> 	12-20 Silico 29.5'-62.J'	a Sand	39	Split Spoon	35-36.5	
below	40 <del>-</del>			6.9	Spill Spoon	40-41.5	40 — Sondy clay and clay (CH); red (2.5 YR 5/6); highly plastic; unconsolidated; wet to maist; sandy clay; wet
feet	1111			2.9		45-46.5	45 — Fat clay with sond (CH); red (2.5 YR 5/6); high plasticity; maist; unconsolidated; micaceaus
	50 -	32.0'-62.3'		41		50-51.5	
1	-		SP	140		55-56.5	55 - Sand with clay (SP); yellowish red (5 YR 5/6); very fine-grained; well sarted; rounded grains; unconsolidated; wet; 80 to 95% sand with 5 to 20% clay; moderate to high plasticity
	60 —	T.O.=62.3'		28	Split Spoon	60-61.5	60 — Fat clay (CH) and lenses of fine—grained sand (SP); yellowish red (5 YR 5/6); high plasticity; unconsolidated; wet to saturated
	70 -						
			and the second s				

Geologist: Pigman Driller: Layne Environmental Service Date completed: 9-16-96

Drilling method: Hollow stem auger Bit diameter: 8.5 in. O.D.

ROSWELL COMPRESSOR STATION

Well Log: SVE-3





BORING/WELL NUMBER MW-1B SHEET 1 OF 2

PROJECT Transwestern Pipeline Company

LOCATION Roswell Compressor Station No. 9

PROJECT NUMBER 5T72

SURFACE ELEVATION 95.2

COORDINATES

DATUM GRADE

LOGGED BY S. Richard

DATE DRILLED 4/21/93

SURFA	CE ELEVATION 95.2 DATUM GRAI	DE	LOG	GED BY	S. Richa	rd			DATE DRILLED 4/21/93
ELEVATION FEET	6011	⋖		SAME	PLE INF			,	WELL CONSTRUCTION
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-	Very Silty		-						
-65	Silts and Clays, little gravel		- 30 -					0	
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-	SILT - brown, organic odor		1	М		/.	9 14		
	Black gravel and coarse sand			SPT		24/24	21	> 1000	
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DRILLING CONTRACTOR: Layne Environmental

DRILLER:

Russ Deike

**DRILLING METHOD:** 

**DRILLING EQUIPMENT:** 

Failing F-10

**Hollow Stem Auger** WELL SEAL-INTERVAL/QUANTITY:

WELL SCREEN/INTERVAL:

FILTER PACK-INTERVAL/QUANTITY:

DIAMETER, TYPE & INTERVAL OF CASING: 2" PVC 0.020" slot, 55' to 65'

10/20 silica sand, 53' to 65.5'

50' to 53', bentonite pellets



BORING/WELL NUMBER MW-1B

SHEET 2 OF 2

PROJECT Transwestern Pipeline Company

LOCATION Roswell Compressor Station No. 9

PROJECT NUMBER 5T72

SURFACE ELEVATION 95.2

COORDINATES

DATUM GRADE

LOGGED BY S. Richard

DATE DRILLED 4/21/93 !

SURFA	CE ELEVATION 95.2 DA	TUM GRAD	E	LOGO	ED BY	S. Richa	rd			DA	TE DRILLED 4/21/93
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	SAND with PSH		71117	1	$\Delta$		/	19 12			
				1	M SPT		24/20	13	1000	:: <b> </b>  ::	
		[:			N SPI		24/20	14 41	> 1000	<b>/</b> 注目:	Water level at 58.8
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	6 inches of black sand	].			SPT		24/18	6	> 1000	::目::	♥ Water lavel at 62.1
		].			H I		1/,	15 18		::目:	feet BLS at 1700 h
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01 10000 1000000211.00	8V	<del></del>	<del></del>		<del>                                     </del>
8' Flush Mount Well Vouit	QED Bladder Pump Well Cop 2' x 2' x 4" Concrete Pad	Graphic PID Readin (ppm	9 Device	Sample Interval (feet bgs)	Comments and Lithology
Teet below ground surface  10	2" SCH 40 PVC Flush Thread Blank Cosing	0.3 0.7 0.7 0.7 112 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	Split Spaan Split Spaan Split Spaan Split Spaan Split Spaan Split Spaan Cuttings	10-11.5 15-16.5 20-21.5 25-26	5 - Clayey sand with gravel (SC); pinkish gray (7.5 YR 7/2); gravel to 1" in dia. in a matrix of soil and clay; paorly sarted; subrounded clasts; unconsolidated; saturated (rained all day yesterday); 30% gravel, 50% sand, 20% clay  10 - Silty sand with gravel (SM); light brown (7.5 YR 6/4); gravel to 3/4" in matrix of sand and clayey silt; unconsolidated; paorly sarted; raunded clasts; wet; 40% gravel, 40% sand, 20% fines  15 - Silty sand with gravel (SM); dark gray (7.5 YR 4/1); highly stained; gravel to 3/4" in dia.; poorly sorted; subrounded clasts; unconsolidated; maist; 40% gravel, 40% sand, 20% fines; hydrocarbon adar  20 - Gravel with silt and sand (GM); grayish brown (10 YR 5/2); highly stained; gravel to 3" in dia.; poorly sorted; rounded clasts; unconsolidated; damp; strong organic sewer adar  25 - Sandy gravel (GW); light brownish gray (10 YR 6/2); gravel to 3/4" dia.; poorly sorted; rounded clasts; unconsolidated; damp; strong organic smell; 60% gravel, 30% sand, 10% fines  30 - Sand with silt and gravel (SM); very pale brown (10 YR 7/4); gravel to 1/2" in dia. in silty sand matrix; paorly sorted; unconsolidated; damp; 30% gravel, 60% sand, 10% fines  35 - Gravelly sand?; probably from above, may have been sand at 32.5" but driller thinks clay; clay in cuttings at 40"
<i>v</i>		47	Split Spoon Grob/ Cuttings	40-41.5 45	40 — Fot clay (CH); red (2.5 YR 5/6); highly plastic; unconsolidated; wel; some fine-grained clayer sand layers 45 — Fot clay (CH); same as above
50	Bentonite 51.7'55.0'	52.4	Split Spoon	50-51.5	50 — Fat clay (CH); same as above
- -	12-20 Silica Sand 55.0'-72.0'	30.0	Grab/ Cuttings	55-56	55 — Fat clay (CH); same as above
60 -		442	Split Spoon	60~61.5	60 — Fat clay (CH); same as obave; possibly same clayey fine—grained sand layers; saturated
		365	Grab/ Cuttings	6566	65 — Fot clay (CH) and clayey very fine—grained sand (SC); same as above; saturated
70 -	7.0.=72.0* End Cap	166	Split Spoon	70-71.5	70 — Sand (SP); red (2.5 YR 5/6); fine— to medium—grained sand; well sorted; subrounded grains; uncansolidated saturated

Geologist: Pigman
Driller: Layne Environmental Service
Date completed: 9-13-96

Drilling method: Hollow stem ouger Bit diameter: 8.5 in. O.D.

ROSWELL COMPRESSOR STATION Well Log: MW-13



Drilling Method: Hollow stem auger Bit Diameter: 8.5 in. O.D.

Hydrologists: J. Kirby . Driller: Harrison Environmental Date Completed: 8/17/95

ROSWELL COMPRESSOR STATION

Boring Log: Pit 2, NE



4115\4	115P2SW.DWG				
	Ground Surface	Graphic Log	PID Reading (ppm)	Sompling Device	Comments and Lithology
	- 5% Bentonite/	SM/CC	0.0	Split Spoon Split Spoon Split Spoon	0-2 - Sand; brawn (7.5 YR 5/4); well sorted, silty sand; coliche-coated gravels to 4 cm diam. (approximately 30%); noticeable petroleum odor 2-4 - Gravelly sand; stained black; former pit contents; strong petroleum odor 4-6 - Sand to gravelly sand; same as 0-2'; black staining present; noticeable petroleum odor
	_ T.D.=6.0' Surface to 6.0'	MASCER ON	i		
	- -				
	20				
8	- - -				
ground surface	30				
	-				
Feet below	40				
	- - -				
	50 —			:	
	- - -				
	60				·
	70 —				•
	- - 80				·

Hydrologists: J. Kirby Driller: Harrison Environmental Date Completed: 8/18/95

Drilling Method: Hollow stem auger Bit Diameter: 8.5 in. O.D.

ROSWELL COMPRESSOR STATION Boring Log: Pit 2, SW





BORING/WELL NUMBER

SHEET 1 OF 2

PROJECT Transwestern Pipeline Company

LOCATION Roswell Compressor Station No. 9

PROJECT NUMBER 5T72

SURFACE ELEVATION 97.0

COORDINATES

DATUM GRADE

LOGGED BY S. Richard

DATE DRILLED 4/21/93

NO	2011		SAMPLE INFORMATION						WELL CONSTRUCTION		
ELEVATION FEET	SOIL DESCRIPTION GROUND SURFACE	STRATA	Depth Feet	Sample Type	Sample ID	Inches Adv. / Inches Rec.	Penetr- ometer Blow Counts	PID/ FID (ppm)	DETAIL & REMARKS		
-95	Silt and Clay with Gravel and Pebbles	X 77 X									
·90			- 5 -	SPT		18/18	37 34 29	1			
85			10 -	⊠ SPT		6 / 3	50	2			
80	More Gravel		- 15 -	∑ SPT		6 / O	50	2			
	More Graver	4/	20 -	⊠ SPT		6 / 2	50	1			
75	3-inch dark brown sandy clay layer, sand is well sorted and medium grained		- 25 -	≅ SPT		4 / 2	50	2			
·70	Small layer (1 foot) of black coarse gravel, organic odor		30 -	SPT		18/15	14 14 14	> 1000			
-65				SPT		18/18	5 9 10	700			

DRILLING CONTRACTOR: Layne Environmental

DRILLER:

Russ Deike

DRILLING METHOD:

Hollow Stem Auger

DRILLING EQUIPMENT:

Failing F-10

DIAMETER, TYPE & INTERVAL OF CASING: 2" PVC

WELL SCREEN/INTERVAL:

FILTER PACK-INTERVAL/QUANTITY:

0.020" slot PVC, 55' to 65' 10/20 silica sand, 53' to 65'

WELL SEAL-INTERVAL/QUANTITY:

50' to 53', bentonite pellets



BORING/WELL NUMBER MW-2 SHEET 2 OF 2

PROJECT Transwestern Pipeline Company

LOCATION Roswell Compressor Station No. 9

PROJECT NUMBER 5T72

SURFACE ELEVATION 97.0

COORDINATES

DATUM GRADE

LOGGED BY S. Richard

DATE DRILLED 4/21/93

	ICE ELEVATION 97.0 DATUM GRA	ADE	LUG	GED BY	PLE INF		ATION	<u>.</u>	DA	WELL WELL
ELEVATION FEET	SOIL DESCRIPTION CONTINUED FROM PREVIOUS PAGE	STRATA	Depth Feet	Sample Type	Sample ID	Inches Adv. / Inches Rec.	Penetr- ometer Blow Counts	PID/ FID (ppm)		CONSTRUCTION DETAIL & REMARKS
60				SPT SPT		18/18	9 10	50 45		
-55	CLAY with Silt and Gravel layers		- 40 -	SPT		18/18	4 4 3	20		
	CLAY with Gravel layers		- 45 -	SPT		18/18	4 5 6	1		
-50				SPT		18/14	3 5 6	2		
	Clay only		- 50 -	SPT		18/18	10 12 21	2		
45	Clay			SPT		18/18	2 3 6	3		
40	Clay - hard		- 55 -	SPT		18/18	4 7 10			
	SAND - fine grained, well sorted, with clay, organic odor		- - - 60 -	SPT		18/8	14 7	> 1000		
				SPT		18/17	17 50	> 1000		
	Total depth = 65.0 feet BLS					<i>j</i>				
·										

ENVIRONMENTAL SCIENTISTS AND ENGINEERS

Table 1. Summary of Detected Compounds for Pit Soil Samples
Roswell Compressor Station No. 9
Page 1 of 2

	<del>                                     </del>	Sample No. (Sample Date)						
·			D. 4	<del></del>	<del>,</del>	<u>,                                    </u>		
	Soil Screening	Risk-Based	Pit 1 NW Boring	Pit 1 SE Boring	Pit 2 NE Boring	Pit 2 SW Boring		
Analyte	Levela	Concentration <sup>b</sup>	(08/18/95)	(08/18/95)	(08/17/95)	(08/18/95)		
Volatile Organic Compounds (mg/kg)	by EPA Met	thod 8240						
Acetone	8	7,800	1.4	<0.50	<0.50	<0.10		
Benzene	0.02	22	0.21	0.85	0.14	<0.005		
Carbon disulfide	14	7,800	<0.02	0.06	<0.02	<0.005		
1,1-Dichloroethane (1,1-DCA)	11	7,800	1.0	1.20	<0.02	<0.005		
1,1-Dichloroethene (1,1-DCE)	0.03	1.1	0.04	0.04	<0.02	<0.005		
Ethylbenzene	5	7,800	0.04	0.37	0.9	<0.005		
2-Hexanone	NA	NA	<0.02	0.46	<0.02	<0.005		
Methylene chloride (dichloromethane)	0.01	85	<0.02	0.16	<0.02	<0.005		
Tetrachloroethene (PCE)	0.04	12	<0.02	0.04	<0.02	0.009		
Toluene	5	16,000	0.5	9.1	1.9	<0.005		
1,1,1-Trichloroethane (1,1,1-TCA)	0.9	7,000	1.9	16.0	<0.02	0.017		
Vinyl acetate	84	78,000	0.2	7.0	<6.0	<0.05		
Xylene(s) <sup>c</sup>	74	160,000	0.27	2.4	16.0	<0.005		
Semivolatile Organic Compounds (m	g/kg) by EPA	Method 8270			<u></u>			
Benzo(j)fluoranthene	NA	NA	<3.3	<3.3	<0.33	0.33		
Bis(2-ethylhexyl)phthalate	11	46	4.8	<3.3	<0.33	<0.33		
Chrysene	1	88	<3.3	<3.3	<0.33	0.33		
Fluoranthene	980	5.100	<3.3	<3.3	<0.33	0.76		
2-Methylnaphthalene	NA	NA	4.8	<3.3	0.46	<0.33		
Phenanthrene	NA	NA	5.6	5.0	<0.33	0.45		
Phenol (carbolic acid)	49	47,000	30.0	200	<0.33	<0.33		
Pyrene	1,400	2,300	<3.30	<3.3	<0.33	0.89		

Notes: This table lists only those analytes that were detected in at least one of the pit soil samples.

Bold values highlight concentrations above reporting limits.

Core Laboratories results for VOCs and SVOCs converted from μg/kg to mg/kg.

<sup>&</sup>lt;sup>a</sup> Soil screening level for protection of ground water based on a dilution-attenuation factor of 10 (EPA, 1994)

Bisk-based concentration for soil ingestion at residential sites (EPA, 1995)

<sup>&</sup>lt;sup>c</sup> Soil screening level for mixed xytene

Table 1. Summary of Detected Compounds for Pit Soil Samples
Roswell Compressor Station No. 9
Page 2 of 2

			Sample No. (Sample Date)								
Analyte	Soil Screening Level <sup>a</sup>	Risk-B sed Concentration <sup>b</sup>	Pit 1 NW Boring (08/18/95)	Pit 1 SE Boring (08/18/95)	Pit 2 NE Boring (08/17/95)	Pit 2 SW Boring (08/18/95)					
PCBs (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	5,950	1,690	1,430	1,63					
Antimony (Sb)	NA	31	10	<10	<10	.<10					
Arsenic (As)	15	23	9	17	6	<5					
Barium (Ba)	32	5,500	415	171	233	734					
Beryllium (Be)	180	0.15	<0.5	<0.5	0.5	<0.5					
Chromium (Cr) <sup>d</sup>	19	390	9	9	8	7					
Copper (Cu)	NA	2,900	144	337	56	18					
Lead (Pb)	NA	NA	<5	11	<5	<b>&lt;</b> 5					
Mercury (Hg)	3	23	0.59	1.36	<0.10	<0.10					
Nickel (Ni)	21	1,600	9	5	5	<4					
Selenium (Se)	3	390	<10	<10	<10	10					
Tin (Sn)	NA	47,000	<5	6	5	<5					
Vanadium (V)	NA	550	14	10	21	11					
Zinc (Zn)	42,000	23,000	97	282	45	34					
Miscellaneous (mg/kg) by EPA Methods 9010, 9030, and 418.1, respectively											
Total cyanide <sup>e</sup>	NA	11.290	1.1	1.4	<0.4	<0.4					
Total sulfide	NA	NA	1,800	940	530	370					
Total petroleum hydrocarbons	NA	NA	4,700	26,000	5,300	<50					

Notes: This table lists only those analytes that were detected in at least one of the pit soil samples. Bold values highlight concentrations above reporting limits.

NA = Not available

<sup>&</sup>lt;sup>d</sup> Concentrations based on chromium VI

<sup>•</sup> Includes barium/calcium/copper cyanide



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

June 11, 2001

## CERTIFIED MAIL RETURN RECEIPT NO. 3771-7361

Mr. Bill Kendrick
Transwestern Pipeline Company
P.O. Box 1188
Houston, Texas 77251-1188

RE: CASE # GW052R

ANNUAL REPORT

ROSWELL COMPRESSOR STATION

Dear Mr. Kendrick:

The New Mexico Oil Conservation Division has reviewed Transwestern Pipeline Company's (TPC) February 20, 2001 "ANNUAL REPORT OF GROUNDWATER REMEDIATION ACTIVITIES, COMPRESSOR STATION NO. 9 – ROSWELL, NM, TRANSWESTERN PIPELINE COMPANY". This document contains the results of TPC's ground water monitoring and a proposed work plan for additional monitor wells to determine the extent of ground water contamination related to the TPC Roswell Compressor Station.

The work plan as contained in the above-referenced document is approved with the following conditions:

- 1. The ground water monitor wells shall be constructed and sampled in accordance with the OCD's prior work plan approvals.
- 2. TPC shall notify the OCD at least 1 week in advance of the scheduled activities such that the OCD has the opportunity to witness the events and split samples.

Please be advised that OCD approval does not limit TPC to the above-referenced work plan if the investigation activities fail to adequately determine the extent of contamination related to TPC's activities, or if contamination exists which is outside the scope of the work plan. In addition, OCD approval does not relieve TPC of responsibility for compliance with any other federal, state or local laws and regulations.

Mr. Bill Kendrick June 11, 2001 Page 2

If you have any questions, please contact me at (505) 476-3491.

Sincerely,

William C. Olson

Hydrologist

Environmental Bureau

xc:

Tim Gum, OCD Artesia Office

Mike Matush, NM State Land Office

George Robinson, Cypress Engineering Services, Inc.

Dave Cobrain, NMED Hazardous Waste Bureau



Transwestern Pipeline Company P. O. Box 1188

P. O. Box 1188 Houston, TX 77251-1188

February 20, 2001

Mr. William C. Olson Environmental Bureau New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505



RE: Annual Report of Groundwater Remediation Activities Compressor Station No. 9 – Roswell, NM Transwestern Pipeline Company

Dear Bill,

Enclosed for your review is the Annual Report of Groundwater Remediation Activities for the Roswell Station site. This report includes the results of recent groundwater assessment work completed at the site and a proposal for additional assessment activities.

If you have any questions or comments regarding this report and proposed work plan, please contact me at (713) 646-7644 or George Robinson at (713) 646-7327.

Sincerely,

Bill Kendrick

Director, Environmental Affairs

gcr/BK

xc w/attachment: Larry Campbell

ll Transwestern Pipeline Company

George Robinson

Cypress Engineering



### Cypress Engineering

10235 W. Liffle York Rd., Ste. 256 Houston, Texas 77040

(713) 856-7980 office (713) 856-7981 fox

George C. Robinson, P.E.

c/o: ENRON Gas Pipeline Group
Environmental Affairs; Room 3AC-3142

(713) 646-7327 ENRON office (713) 646-7867 ENRON fax

### **FAX Transmission**

To:

Bill Olson

Fax:

505-827-8177

From

George C. Robinson

Date:

October 25, 2000

Comments:

Pages:

(including this cover)

Bill,

I found this in my file. I didn't remember preparing this letter until I saw it. I think this is what we were looking for. Let me know if you don't have the original and I will mail out another copy.

Thanks, George



Transwestern Pipeline Company P. O. Box 1188 Houston, TX 77251-1188

August 29, 2000

Mr. William C. Olson Environmental Bureau New Mexico Oil Conservation Division 2040 S. Pacheco St. Santa Fe, New Mexico 87505

RE: Annual Report of Groundwater Remediation Activities Roswell Compressor Station Transwestern Pipeline Company

Dear Bill,

The next report of groundwater remediation activities at the Roswell Station site will be submitted to your office by December 31, 2000. This report is normally scheduled to be issued on or about July of each year. The report date has been postponed this year in light of two considerations. First, the report date has been postponed so that information obtained in the course of additional assessment activities scheduled for October can be included. Second, routine sampling activities completed since the date of the last report have not revealed any significant changes in site conditions.

If you have any questions regarding this issue, please contact me at (713) 646-7644 or George Robinson at (713) 646-7327.

Sincerely,

Bill Kendrick

Director, Environmental Affairs

gcr/WAK

cc: Larry Campbell

George Robinson

Transwestern Pipeline Co.

Cypress Engineering

Roswell, NM 3AC-3142

?W-32



Transwestern Pipeline Company P. O. Box 1188

Houston, TX 77251-1188

August 29, 2000

Mr. William C. Olson Environmental Bureau New Mexico Oil Conservation Division 2040 S. Pacheco St. Santa Fe, New Mexico 87505

RE: Annual Report of Groundwater Remediation Activities **Roswell Compressor Station** Transwestern Pipeline Company

Dear Bill,

The next report of groundwater remediation activities at the Roswell Station site will be submitted to your office by December 31, 2000. This report is normally scheduled to be issued on or about July of each year. The report date has been postponed this year in light of two considerations. First, the report date has been postponed so that information obtained in the course of additional assessment activities scheduled for October can be included. Second, routine sampling activities completed since the date of the last report have not revealed any significant changes in site conditions.

If you have any questions regarding this issue, please contact me at (713) 646-7644 or George Robinson at (713) 646-7327.

Sincerely,

Bill Kendrick

Director, Environmental Affairs

gcr/WAK

cc: Larry Campbell George Robinson Transwestern Pipeline Co.

Cypress Engineering

Roswell, NM 3AC-3142



#### STATE OF NEW MEXICO

### ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

#### OIL CONSERVATION DIVISION

2040 S. PACHECO SANTA FE, NEW MEXICO 87505 (505) 827-7131

August 19, 1999

### <u>CERTIFIED MAIL</u> RETURN RECEIPT NO. Z-274-520-701

Mr. Bill Kendrick Transwestern Pipeline Company P.O. Box 1188 Houston, Texas 77251-1188

RE: GROUND WATER MONITORING AND INVESTIGATION WORK PLAN ROSWELL COMPRESSOR STATION

### Dear Mr. Kendrick:

The New Mexico Oil Conservation Division has reviewed Transwestern Pipeline Company's (TPC) June 30, PHASE IV ASSESSMENT REPORT, GROUND WATER MONITORING REPORT & PHASE V GROUND WATER ASSESSMENT WORK PLAN, COMPRESSOR STATION NO. 9 – ROSWELL, NM, TRANSWESTERN PIPELINE COMPANY". This document contains the results of TPC's ground water monitoring and TPC's work plan for additional investigations of the extent of soil and ground contamination related to the TPC Roswell Compressor Station.

The work plan as contained in the above referenced document is approved with the following conditions:

- 1. Ground water from monitor wells MW-3, MW-10, MW-11, MW-14, MW-15 and MW-17 shall be sampled and analyzed on a semiannual basis.
- 2. TPC shall notify the OCD at least 1 week in advance of the scheduled activities such that the OCD has the opportunity to witness the events and split samples.

Please be advised that OCD approval does not limit TPC to the above referenced work plan if the investigation activities fail to adequately determine the extent of contamination related to TPC's activities, or if contamination exists which is outside the scope of the work plan. In addition, OCD approval does not relieve TPC of responsibility for compliance with any other federal, state or local laws and regulations.

Mr. Bill Kendrick August 19, 1999 Page 2

If you have any questions, please contact me at (505) 827-7154.

Sincerely,

William C. Olson

Hydrologist

Environmental Bureau

xc:

Tim Gum, OCD Artesia Office

Mike Matush, NM State Land Office

George Robinson, Cypress Engineering Services, Inc.

James Bearzi, NMED Hazardous & Radioactive Materials Bureau



### NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

U.S. Postal Service

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

January 30, 2001

Lori Wrotenbery
Director
Oil Conservation Division

CERTIFIED MAIL
RETURN RECEIPT NO. 3771-6982

Mr. Larry Campbell Transwestern Pipeline Company 6381 North Main Roswell, New Mexico 88201

RE:

Discharge Plan Renewal GW-052 Transwestern Pipeline Company Roswell Compressor Station Chaves County, New Mexico

Dear Mr. Campbell

			e Coverage Provided)
782			
<b>-</b>		·	
<b>177</b> E	Postage	\$	
E 7	Certified Fee		Posture t
7	Return Receipt Fee (Endorsement Required)		Here
	Restricted Delivery Fee (Endorsement Required)		(2)
	Total Postage & Fees	\$	37 6
0.5	Recipient's Name (	(Please Print Clearly) (T	o be completed by maller)
	LARRY CAN	nPBELL STA	RANSMESTERN
	Street, Apt/No.; or PO	Postage \$  Ided Fee elequired)  & Fees \$  Name (Please Print Clearly) (To be completed by maller)  CAMPSELL TRANSMESTERN  TO PO Box No.	
7000	6381 No	RTH MAIN	
7[	City, State, ZIP+4 人のW尼丛。	Postmark Here Receipt Fee Int Required) Delivery Fee Int Required) Bage & Fees  S  S  Name (Please Print Clearly) (To be completed by maller)  A CAMPSELL TRANSDESTERN  No.; or PO Box No.  A REH MAIN  ZIP+4  DELL, NM FPLOI	
	PS Form 3800 Februa	ary 2000	See Reverse for Instructions

The ground water discharge plan renewal application GW-052 for the Transwestern Pipeline Company Roswell Compressor Station located in the SW/4 SW/4 of Section 21, Township 9 South, Range 24 East, NMPM, Chaves County, New Mexico, is hereby approved under the conditions contained in the enclosed attachment. Enclosed are two copies of the conditions of approval. Please sign and return one copy to the New Mexico Oil Conservation Division (OCD) Santa Fe office within 10 working days of receipt of this letter. Please note new mailing address below.

The original discharge plan application was submitted on April 9, 1990 and approved November 9, 1990. The discharge plan renewal application letter, dated May 30, 2000, submitted pursuant to Section 3106 of the New Mexico Water Quality Control Commission (WQCC) Regulations also includes all earlier applications and all conditions later placed on those approvals. The discharge plan is renewed pursuant to Section 3109.C. Please note Section 3109.G, which provides for possible future amendment of the plan. Please be advised that approval of this plan does not relieve **Transwestern Pipeline Company** of responsibility should operations result in pollution of surface water, ground water or the environment. Nor does it relieve **Transwestern Pipeline Company** of its responsibility to comply with any other governmental authority's rules and regulations.

Please be advised that all exposed pits, including lined pits and open tanks (exceeding 16 feet in diameter) shall be screened, netted or otherwise rendered nonhazardous to wildlife including migratory birds.

Please note that Section 3104 of the regulations provides: "When a plan has been approved, discharges must be consistent with the terms and conditions of the plan." Pursuant to Section 3107.C, **Transwestern Pipeline Company** is required to notify the Director of any facility expansion, production increase or process modification that would result in any change in the discharge of water quality or volume.

Pursuant to Section 3109.H.4, this renewal plan is for a period of five years. This renewal will expire on November 9, 2005, and Transwestern Pipeline Company should submit an application in ample time before this date. Note that under Section 3106.F of the regulations, if a discharger submits a discharge plan renewal application at least 120 days before the discharge plan expires and is in compliance with the approved plan, then the existing discharge plan will not expire until the application for renewal has been approved or disapproved. It should be noted that all discharge plan facilities will be required to submit the results of an underground drainage testing program as a requirement for discharge plan.

The discharge plan renewal application for the **Transwestern Pipeline Company Roswell Compressor Station** is subject to WQCC Regulation 3114. Every billable facility submitting a discharge plan application will be assessed a fee equal to the filing fee of \$50.00. There is a renewal flat fee assessed for gas compressor station facilities with horsepower rating greater than 3,000 horsepower equal to one-half of the original flat fee or \$690.00. The OCD has received the filing fee.

On behalf of the staff of the OCD, I wish to thank you and your staff for your cooperation during this discharge plan review.

Sincerely,

Roger C. Anderson

Chief, Environmental Bureau Oil Conservation Division

RCA/eem Attachment

Xc: OCD Artesia Office

# ATTACHMENT TO THE DISCHARGE PLAN RENEWAL GW-052 TRANSWESTERN PIPELINE COMPANY ROSWELL COMPRESSOR STATION DISCHARGE PLAN APPROVAL CONDITIONS

January 30, 2001

- 1. Payment of Discharge Plan Fees: The \$50.00 filing fee has been received by the OCD. There is a required flat fee equal to one-half of the original flat fee for natural gas compressor stations with horsepower rating greater than 3,000 horsepower. The renewal flat fee required for this facility is \$690.00 which may be paid in a single payment due at the time of approval, or in equal annual installments over the duration of the discharge plan, with the first payment due upon receipt of this approval. The filing fee is payable at the time of application and is due upon receipt of this approval. All checks are to be made payable to Water Quality Management Fund and forwarded to the OCD Santa Fe Office. Please note new mailing address on letterhead.
- 2. <u>Commitments</u>: Transwestern Pipeline Company will abide by all commitments submitted in the discharge plan renewal application letter dated May 30, 2000 and these conditions for approval.
- 3. Waste Disposal: All wastes will be disposed of at an OCD approved facility. Only oilfield exempt wastes shall be disposed of down Class II injection wells. Non-exempt oilfield wastes that are non-hazardous may be disposed of at an OCD approved facility upon proper waste determination per 40 CFR Part 261. Any waste stream that is not listed in the discharge plan will be approved by OCD on a case-by-case basis.
- 4. <u>Drum Storage</u>: All drums containing materials other than fresh water must be stored on an impermeable pad with curbing. All empty drums will be stored on their sides with the bungs in and lined up on a horizontal plane. Chemicals in other containers such as sacks or buckets will also be stored on an impermeable pad and curb type containment.
- 5. <u>Process Areas:</u> All process and maintenance areas which show evidence that leaks and spills are reaching the ground surface must be either paved and curbed or have some type of spill collection device incorporated into the design.
- 6. Above Ground Tanks: All above ground tanks which contain fluids other than fresh water must be bermed to contain a volume of one-third more than the total volume of the largest tank or of all interconnected tanks. All new tanks or

existing tanks that undergo a major modification, as determined by the Division, must be placed within an impermeable bermed enclosure.

- 7. <u>Above Ground Saddle Tanks:</u> Above ground saddle tanks must have impermeable pad and curb type containment unless they contain fresh water or fluids that are gases at atmospheric temperature and pressure.
- 8. <u>Labeling:</u> All tanks, drums and containers will be clearly labeled to identify their contents and other emergency notification information.
- 9. <u>Below Grade Tanks/Sumps</u>: All below grade tanks, sumps, and pits must be approved by the OCD prior to installation or upon modification and must incorporate secondary containment and leak-detection into the design. All pre-existing sumps and below-grade tanks must demonstrate integrity no later than March 31, 2001 and every year from tested date thereafter. Permittees may propose various methods for testing such as pressure testing to 3 pounds per square inch above normal operating pressure and/or visual inspection of cleaned out tanks and/or sumps, or other OCD approved methods. The OCD will be notified at least 72 hours prior to all testing. The test results will be submitted to OCD by April 30, 2001.
- 10. <u>Underground Process/Wastewater Lines:</u> All underground process/wastewater pipelines must be tested to demonstrate their mechanical integrity every five (5) years. Permittees may propose various methods for testing such as pressure testing to 3 pounds per square inch above normal operating pressure or other means acceptable to the OCD. The OCD will be notified at least 72 hours prior to all testing. The test results will be submitted to OCD upon completion of the test.
- 11. Class V Wells: No Class V wells that inject non-hazardous industrial wastes or a mixture of industrial wastes and domestic wastes will be closed unless it can be demonstrated that groundwater will not be impacted in the reasonably foreseeable future. Leach fields and other wastewater disposal systems at OCD regulated facilities which inject non-hazardous fluid into or above an underground source of drinking water are considered Class V injection wells under the EPA UIC program. Class V wells that inject domestic waste only must be permitted by the New Mexico Environment Department.
- 12. <u>Housekeeping:</u> All systems designed for spill collection/prevention will be inspected weekly and after each storm event to ensure proper operation and to prevent overtopping or system failure. A record of inspections will be retained on site for a period of five years.

- 13. Spill Reporting: All spills/releases will be reported pursuant to OCD Rule 116 and WQCC 1203 to the OCD Artesia District Office.
- 14. <u>Transfer of Discharge Plan:</u> The OCD will be notified prior to any transfer of ownership, control, or possession of a facility with an approved discharge plan. A written commitment to comply with the terms and conditions of the previously approved discharge plan must be submitted by the purchaser and approved by the OCD prior to transfer.
- 15. Storm Water Plan: The facility will have an approved storm water run-off plan.
- 16. Closure: The OCD will be notified when operations of the Roswell Compressor Station are discontinued for a period in excess of six months. Prior to closure of the Roswell Compressor Station, the Director will submit a closure plan for approval. Closure and waste disposal will be in accordance with the statutes, rules and regulations in effect at the time of closure.
- 17. Conditions accepted by: Transwestern Pipeline Company, by the officer whose signature appears below, accepts this permit and agrees to comply with all terms and conditions contained herein. Transwestern Pipeline Company further acknowledges that these conditions and requirements of this permit may be changed administratively by the Division for good cause shown as necessary to protect fresh water, human health and the environment.

Transwestern Pipeline Company	
Print Name:	
Signature:	
Title:	
Date:	



December 16,1997

Enron Transportation & Storage

Services Provided by Northern
Natural Gas Company and
Transwestern Pipeline Company
Summit Office Building
4001 Indian School Road, NE, Suite 250
Albuquerque, NM 87110
(505) 260-4000
Fax (505) 254-1437

Mr. Roger Anderson
Oil Conservation Division
2040 South pacheco
Santa Fe, New Mexico 87504

Reference:

Underground Drain Line Testing, Transwestern Pipeline Company'

Compressor Station # 9 Roswell New Mexico GW- 52

### Dear Mr. Anderson:

The following report presents the results of the underground drain line testing at the Transwestern Pipeline Company (Transwestern) Compressor Station # 9 Roswell, New Mexico facility. This station is currently operating under OCD discharge plan GW-52, which requires drain line testing to be conducted on all underground drain lines. The testing program was conducted using the methodology submitted by letter on July 8, 1997 to the OCD, which was then approved by the agency on July 16, 1997.

### **METHODOLOGY**

The testing program was initiated on November 4 - 11, 1997. The following drain line systems at the facility were hydrostatically tested:

Drain Line System	Length of Line (ft.	) Size of pipe (in.)
West Texas Pig Receiver to PLL(2) Tank	195	2.0
Mist Extractor to PLL Tank	63	2.0
PLL Tank to Truck Loading Point	111	4.0
OWW(1) to Truck Loading Point	111	4.0
Wash Bay to West Texas Pig Trap Sump	90	4.0
Comp. Bldg. OWW Sump To OWW Tank	1,230	2.0
Comp. Bldg. To OWW Sump	426	4" drain lines to 8" Header
(1)Oily Waste Water		
(2)Pipe Line Liquids		
The seak during line tested, the following may	احسم وميديسماماه	arrad A tast bandar was

For each drain line tested, the following methodology was employed. A test header was constructed by isolating each drain line and attaching and sealing a 90 degree elbow of the

same pipe diameter to one of the two drain pipe ends. A seven 7 ft vertical pipe of the same pipe diameter was attached and sealed to the exposed vertical end of the 90 degree elbow. At the horizontal terminal end of the exposed drain pipe a test plug was temporarily inserted and sealed. The drain line and attached test header was then filled with water to a marked level on the vertical pipe of 6.95 ft. above the horizontal elevation of the drain pipe. This water level head created a positive pressure of 3.0 psi upon the existing piping system. This pressure was then allowed to equilibrate in the pipe and the test was conducted for a period of thirty minutes to determine water loss in the pipe. Any water leakage will be indicated by a drop in the water level of the vertical pipe below the 6.95 ft mark.

### **RESULTS**

The results of the drain line testing recorded no instances where the water level in the vertical stand pipe receded below the water level mark of 6.95 ft. Based upon the results of this study, Transwestern concludes that the integrity of all underground drain line systems at this facility are intact and that no further actions are required on these lines.

Should you desire additional information concerning this testing procedure or report, contact Mr. James Russell at (505) 260-4011 or Mr. Larry Campbell at (505) 625-8022.

Sincerely, family R. Kussell

James R. Russell

**Environmental Specialist** 

xc: Rich Jolly

Larry Campbell

Roswell Team

Recovery Well Log Sheet	Month:	Day:	Well#	Product Level	Water Level	Pump # / MW #	Flow Rate	Cycle Time
Enron Roswell Remediation System	Sep-00	01-Sep	Pump 1/RW-1	None	34,14	Pump 1/RW-1	None / 15 min.	3 Cyole
Transwestern Pipeline Facility		02-Sep	Pump 2/MW-1B	59.80	59.87	Pump 2/MW-1B	200 ML / 15 min	3 Cyole
6381 North Main Street		03-Sep	Pump 3/MW-2	61.22	61,23	Pump 3/MW-2	50 ML / 15 min.	3 Cyole
Roswell, New Mexico 88201	<b>—</b> —	04-Sep	1	0	01.23	rump Simitar	30 ML / 13 MM.	3 Cyole
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Prepared By:		O6-Sep	<del> </del>	<del></del>	<del></del>			
Clayton M. Barnhill		07-Sep	† — — — — — — — — — — — — — — — — — — —					
Consulting Geologist		08-Sep	Shut down pumpe /	will order new r	uman and inst	-11		
Certified Professional Geologist # 7145		09-Sep	Court Gowin pumps /	win order new p	Annipa and mai	an new pumps at	a later date.	
PO Box 2304		10-Sep	<del> </del>					<del>                                     </del>
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**Sandra L. Sharp** Sr. Environmental Engineer

Cypress Engineering

HAZZARDOUS WASTE CLEIN UP ON HILL

10235 West Little York, Suite 256 Houston, Texas 77040-3229

(713) 856-7980 office

(713) 856-7981 fax \*(713)646-7252 CENPON

cypress@neosoft.com

### AFFIDAVIT OF PUBLICATION

### COUNTY OF CHAVES STATE OF NEW MEXICO

I, Fran SaundersLegals Clerk

Of the Roswell Daily Record, a daily newspaper published at Roswell, New Mexico, do solemnly swear that the clipping hereto attached was published in the regular and entire issue of said paper and not in a supplement thereof for a period of:

one time

beginning with issue dated June 16th

2000

and ending with the issue dated
June 16th 2000

non c

Sworn and subscribed to before me

This 21st

June

day of 2000

My Commission expires

July 25, 2002

(SEAL)

Publish, June 16, 2000

#### NOTICE OF PUBLICATION

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following discharge plan application has been submitted to the Director of the Oil-Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico 87505. Telephone (505) 827-7131:

(GW-052) Transwestern Pipeline Company, Mr. Larry Campbell, Division Environmental Specialist, 6381 North Main, Roswéll, New Mexico, 88201, has submitted a renewal application for the previously approved discharge plan for their Roswell Compressor Station located in the SW/4 SW/4 of Section 21, Township 9 South, Range 24 East, NMPM, Chaves County, New Mexico. Approximately 1000 gallon per day of wastewater will be transferred to an offsite live-stock-watering tank. The wastwater has a total dissolved solids concentration of approximately 1250 mg/l. Groundwater most likely to be affected by a spill, leak or accidental discharge to the surface is at a depth of approximately 240 feet with a total dissolved solids concentration of approximately 1551 mg/l. The discharge plan addresses how spills, leaks and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday through Friday. Prior to ruling on any proposed discharge plan or its modifications, the director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and a public hearing may be requested by any interested person. Requests for a public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public i interest.

If no public hearing is held, the Director will approve or disapprove the proposed plan based on information available. If a public hearing is hiheld, the Director will approve or disapprove the proposed plan based on information in the plan and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 8th day of June 2000.

SEAL

STATE OF NEW MEXICO OIL CONSERVATION DIVISION Roger C. Anderson for: LORI WROTENBERY, Director

### AFFIDAVIT OF PUBLICATION

### COUNTY OF CHAVES STATE OF NEW MEXICO

I, Fran Saunders Legals Clerk

Of the Roswell Daily Record, a daily newspaper published at Roswell, New Mexico, do solemnly swear that the clipping hereto attached was published in the regular and entire issue of said paper and not in a supplement thereof for a period of:

one time

beginning with issue dated August 24th

2000

and ending with the issue dated August 24th 2000

Clerk

Sworn and subscribed to before me

This 25th

August

day of 2000

July 25, 2002

My Commission expires

(SEAL)

Publish August 24, 2000

#### NOTICE OF PUBLICATION

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ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

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If no public hearing is held, the Director will approve or disapprove the proposed plan based on information available. If a public hearing is held, the director will approve or disapprove the proposed plan based on information in the plan and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 14th day of August 2000.

STATE OF NEW MEXICO.
OIL CONSERVATION DIVISION
Roger Anderson
ROGER ANDERSON for
LORI WROTENBERY, Director

SEAL

### THE SANTA FE **NEW** MEXIC

NM OIL CONSERVATION DIVISION

ATTN: "DONNA DOMINGUEZ 2040 S. PACHECO ST SANTA FE, NM 87505

AD NUMBER: 153987

ACCOUNT: 56689

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LEGAL NO: 67563

P.O.#: 00199000278 1 time(s) at \$ 81.55

185 LINES AFFIDAVITS: 5.25

TAX: 5.43

TOTAL: 92.23

AFFIDAVIT OF PUBLICATION

NOTICE OF PUBLICATION

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following discharge plan application has been submitted to the Director of the Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico 87505, Telephone (505) 827-7131:

(GW-052) Transwestem Pipeline Company, Mr. Larry Campbell, Division Environmental Specialist, 6381 North Main, Roswell Mexico, New 88201, has submitted a renewal application for the previously approved discharge plan for their Roswell Compressor Station located in the SW/4 SW/4 of Section 21, Township 9 South, Range 24 East, NMPM, Chaves County, New Mexico. Approximately, 1000 gallons day of wastewater will be transferred to an offsite livestock-watering tank. The wastewater has a total dissolved solids concentration of approxi-1250 mg/l. mately Groundwater, most likely to be affected by a spill, leak or accidental discharge to the surface is at a depth of approximately 240 feet with a total dissolved solids concentration of approximately 1551 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation 8:00 a.m. and 4:00 p.m., Monday through ? Friday. posed discharge plan or its modification, the Director of the Oil Conservation least thirty (30) days after Requests for public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

If no public hearing is 15 day of held, the Director will approve or disapprove the proposed plan based on information available. If a Notary public hearing is held, the director will approve or dis Commission Expires approve the proposed plan based on information in the plan and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 8th day of June, 2000.

> STATE OF NEW MEXICO OIL CONSERVATION DIVISION LORI WROTENBERY, Director

Legal #67563 Pub. June 15, 2000 STATE OF NEW MEXICO

Division and may submit

STATE OF NEW MEATCO

COUNTY OF SANTA FE

Director of the Oil Conser I, Bellen being first duly sworm declare and say that I am Legal Advertising Representative of THE discharge plan application application may be viewed at the the English language, and having a general circulation above address between in the Counties of Santa Falland. in the Counties of Santa Fe and Los Alamos, State of New Mexico and being a Newspaper duly qualified to publish Prior to ruling on any pro- legal notices and advertisements under the provisions of Chapter 167 on Session Laws of 1937; that the publication #67563 a copy of which is hereto attached was published Division shall allow at in said newspaper 1 day(s) between 06/15/2000 and 06/15/2000 and that the notice was published in the this notice during which newspaper proper and not in any supplement; the first comments may be submit publication being on the 15 day of June, 2000 ted to him and a public and that the undersigned has personal knowledge of the hearing may be requested by any interested person. matter and things set forth in this affidavit.

LEGAL ADVERTISEMENT REPRESENTATIVE

Subscribed and sworn to before me on this --- --June A.D., 2000

OX to Montino

# THE SANTA FE NEW WEXICAN

Founded 1849

NM OIL CONSERVATION DIVISION

ATTN: DONNA DOMINGUEZ 2040 S. PACHECO ST. SANTA FE, NM 87505

AD NUMBER: 166720 LEGAL NO: 67943 ACCOUNT: 56689

LEGAL NO: 67943 P.O.#: 00199000278 183 LINES 1 time(s) at \$ 80.67

AFFIDAVITS: 5.25

TAX: 5.37 TOTAL: 91.29

STATE OF NEW MEXICO

NOTICE OF PUBLICATION

STATE OF NEW MEXICO NERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

lotice is hereby given that sursuant to New Mexico Vater Quality Control Comission Regulations, the ollowing discharge plan splication has been subnitted to the Director of he Oil Conservation Division, 2040 South Pacheo, Santa Fe, New Mexico 17505, Telephone (505) 327-7131:

GW-052) Train-Company, Transwestern Mr. arry Campbell, Division invironmental Scientist, invironmental Scientist, 381 North Main, Rosvell, New Mexico 88201, as submitted a renewal usly approved discharge lan for their Roswell compressor Station, locatd in the SW/4 SW/4 of iection 21, Township 9 outh, Range 24 East, IMPM, Chaves County, lew Mexico. Approxi-nately 1000 gallons per ay of wastewater will be ransferred to an offsite vestock-watering tank. he wastewater has a toal dissolved solids con-entration of about 1250 ng/l. Groundwater most ikely to be affected by a spill, leak or accidental lischarge to the surface s at a depth of approxinately 240 feet with a otal dissolved solids conentration of approximatey 1551 mg/i. The disharge plan addresses low spills, leaks and other accidental discharges o the surface will be nanaged.

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If no hearing is held, the Director will approve or disapprove the proposed plan based on information available. If a public hearing is held, the director will approve or disapprove the proposed plan based on information in the plan and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 14th day of August 2000.

> STATE OF NEW MEXICO OIL CONSERVATION DIVISION LORI WROTENBERY, Director

Legal #67943 Pub. August 22, 2000 AFFIDAVIT OF PUBLICATION

COUNTY OF SANTA FE first duly sworn declare and say that I am Legal Advertising Representative of THE SANTA FE NEW MEXICAN, a daily newspaper published in the English language, and having a general circulation in the Counties of Santa Fe and Los Alamos, State of New Mexico and being a Newspaper duly qualified to publish legal notices and advertisements under the provisions of Chapter 167 on Session Laws of 1937; that the publication a copy of which is hereto attached was published #67943 day(s) between 08/22/2000 and in said newspaper 1 08/22/2000 and that the notice was published in the newspaper proper and not in any supplement; the first publication being on the 22 day of August, 2000 and that the undersigned has personal knowledge of the matter and things set forth in this affidavit.

/s/ LEGAL ADVERTISEMENT REPRESENTATIVE

Subscribed and sworn to before me on this. 22 day of August A.D., 2000



### NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

### NOTICE OF PUBLICATION

### STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following discharge plan application has been submitted to the Director of the Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico 87505, Telephone (505) 827-7131:

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GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 14th day of August 2000.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

SEAL

LORI WROTENBERY, Director

### **Transwestern Pipeline Company**

TECHNICAL OPERATIONS
6381 North Main • Roswell, New Mexico 88201

May 30, 2000

Mr. Wayne Price
Oil Conservation Division
2040 South Pacheco
Santa Fe, New Mexico
87505

Re: Renewal of Groundwater Discharge Plan GW-052, Roswell Compressor Station

Dear Mr. Price:

Transwestern Pipeline Company, owner and operator of the Roswell Compressor Station, requests renewal by the Oil Conservation Division (OCD) of discharge plan GW-50 for the above referenced facility. A renewal application accompanies this letter request in addition to a check (no. 0602083626) in the amount of \$50.00 to cover the applicable discharge renewal fee.

Be advised that there have been no new modifications or alterations performed or constructed at this location which would differ from those originally covered under the original discharge plan application submitted on May 15, 1989, and operating practises currently at the facility reflect operating practices which were presented in the original application.

Should you require any additional information concerning this renewal request, contact the undersigned at our Roswell Technical Operations at (505) 625-8022.

Sincerely,

Larry Campbell

**Division Environmental Specialist** 

xc:

Arnie Bailey Roswell Team

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OIL CONSERVATION DIVISION P O BOX 1980 HOBBS, NM 88241

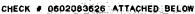
VENDOR NO. #409153859
REMITTANCE STATEMENT

			KEMIIIA	NUE STATEMENT		
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NO.	DATE	NUMBER	ORDER	GROSS	DISCOUNT	NET
0005001155	05/22/2000 GW-052			50.00	0.00	50.00
				ATTN LARRY CAMPBELL AN RENEWAL NOTICE F	OR ROWELL COMP. STAT	ION TOTAL 50.00

SPECIAL INSTRUCTIONS:

MAIL TO TRANSWESTERN PIPELINE, 6381 N. MAIN, ROSWELL

ETACH AND RETAIN THIS STUB FOR YOUR RECORDS.





District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

### State of New Mexico Energy Minerals and Natural Resour

Oil Conservation Division 2040 South Pacheco Santa Fe, NM 87505 Submit Original
Plus 1 Copy
to Santa Fe
1 Copy to Appropriate
District Office

Revised March 17, 1999

## DISCHARGE PLAN APPLICATION FOR SERVICE COMPANIES, GAS PLANTS. REFINERIES, COMPRESSOR, AND CRUDE OIL PUMP STATIONS

(Refer to the OCD Guidelines for assistance in completing the application)

	☐ New ☐ Renewal ☐ Modification
1.	Type: NATURAL GAS PIDELINE COMPRESSOR STATION (ROSWELL COMPRESSOR STATION)
2.	Operator: TRANSWESTERN PIPELINE COMPANY
	Address: 6381 North MAIN StrEET, ROSWELL, N.M. 88201
	Contact Person: LARRY CAMPBELL Phone: 505 625-8022
3.	Location:/4
4.	Attach the name, telephone number and address of the landowner of the facility site.
5.	Attach the description of the facility with a diagram indicating location of fences, pits, dikes and tanks on the facility.
6.	Attach a description of all materials stored or used at the facility.
7.	Attach a description of present sources of effluent and waste solids. Average quality and daily volume of waste water must be included.
8.	Attach a description of current liquid and solid waste collection/treatment/disposal procedures.
9.	Attach a description of proposed modifications to existing collection/treatment/disposal systems.
10.	Attach a routine inspection and maintenance plan to ensure permit compliance.
11.	Attach a contingency plan for reporting and clean-up of spills or releases.
12.	Attach geological/hydrological information for the facility. Depth to and quality of ground water must be included.
13.	Attach a facility closure plan, and other information as is necessary to demonstrate compliance with any other OCD rules, regulations and/or orders.
14.	CERTIFICATION
	I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
	Name: Jarry Compbell Title: DWISION ENVIRONMENTA! Specialist
	Name: Jarry Campbell Title: Dylsion Environmental Specialist Signature: LARRY Campbell Date: 5/30/00

### ACKNOWLEDGEMENT OF RECEIPT OF CHECK/CASH

I hereby acknowledge receipt of check No	dated $\frac{5/a^2/00}{a}$	_′
or cash received on $\frac{6/7/00}{}$ in t	the amount of \$ 50.00	_
from TRANSWESTERN PIPELINE Co.		_
for ROSWELL COMPRESSOR STATION	GW-50-	
Submitted by:	Date:	
Submitted to ASD by: ED MARTIN	Date: 6/8/00	_
Received in ASD by:	Date:	_
Filing Fee New Facility	Renewal	
ModificationOther		
Organization Code <u>521.07</u> App.  To be deposited in the Water Quality Man	nagement Fund.	
Full Payment or Annual Incre  TRANSWESTERN PIPELINE COMPANY P.O. BOX 1188 HOUSTON, TEXAS 77251-1188	ement	
PAY TO THE OIL CONSERVATION DIVISION PO BOX 1980 HOBBS, NM 88241	\$\$\$\$\$\$\$\$\$\$\$\$50.0	<b>o</b>
Fifty and 00/100 Dollars	Juculation	_

CITIBANK DELAWARE, A SUBSIDIARY OF CITICORP ONE PENN'S WAY, NEW CASTLE, DE 19720 AUTHORIZED SIGNATURE



### NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

Jennifer A. Salisbury CABINET SECRETARY

Telephone Personal

Oil Conservation Div. Environmental Bureau 2040 S. Pacheco Santa Fe, NM 87505

### **Memorandum of Meeting or Conversation**

Time: 11am Date: 5/17/0	0
Originating F	Party: Wayne Price-OCD
Other Parties	s: Larry Campbell- Transwestern Pipeline
Subject:	Discharge Plan Renewal Notice for the following Facilities:
GW-197 GW-052	Monument Turbine St. expires 08/30/00 Roswell Compressor St. expires 11/09/00
least 120 days be plan on the date of until the applicate remains fully effort address all of the	If the holder of an approved discharge plan submits an application for discharge plan renewal at efore the discharge plan expires, and the discharger is not in violation of the approved discharge of its expiration, then the existing approved discharge plan for the same activity shall not expire ion for renewal has been approved or disapproved. A discharge plan continued under this provision ective and enforceable. An application for discharge plan renewal must include and adequately information necessary for evaluation of a new discharge plan. Previously submitted materials may eference provided they are current, readily available to the secretary and sufficiently identified to be [95]
	Discussed WQCC 3106F and gave notice to submit Discharge Plan renewal th \$50.00 filing fee for the above listed facilities.
Transwestern : site has no cha http://www.en	or Agreements: may submit Discharge Plan application only and refer to existing discharge plan if anges. DP applications are on OCD's web page nnrd.state.nm.us/ocd/
0. 1	1 Che la -

Larry Campbell E-mail lcampbe@enron.com

OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87606 {505} 827-7131

May 17, 1999

Mr. Bill Kendrick
ENRON Gas Pipeline Group
P.O. Box 1188
Houston, Texas 77251-1188

RE: GROUND WATER ANALYSES

**ROSWELL COMPRESSOR STATION** 

Dear Mr. Kendrick:

Enclosed you will find copies of the New Mexico Oil Conservation Division's (OCD) ground water sample analyses that the OCD split with ENRON Gas Pipeline Group (ENRON) during the March 30, 1999 monitor well sampling at the ENRON Roswell Compressor Station.

If you have any questions, please call me at (505) 827-7154.

Sincerely,

William C. Olson

Hydrologist

**Environmental Bureau** 

xc:

OCD Artesia District Office

George Robinson, Cypress Engineering Services, Inc.

James Bearzi, NMED Hazardous & Radioactive Materials Bureau Chief

2709-D Pan American Freeway NE Albuquerque, New Mexico 87107 Phone (505) 344-3777 Fax (505) 344-4413



Pinnacle Lab ID number April 01, 1999 903096

AH . 2 399

NMOCD 2040 S. PACHECO

SANTA FE,

NM

87505

Project Name

**ENRON-ROSWELL** 

**Project Number** 

(none)

Attention:

**BILL OLSON** 

On 3/31/99 Pinnacle Laboratories, Inc. Inc., (ADHS License No. AZ0592), received a request to analyze **aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

If you have any questions or comments, please do not hesitate to contact us at (505)344-3777.

Kimberly D. McNeill Project Manager H. Mitchell Rubenstein, Ph. D. General Manager

MR: mt

Enclosure

2709-D Pan American Freeway NE Albuquerque, New Mexico 87107 Phone (505) 344-3777 Fax (505) 344-4413



CLIENT	: NMOCD	PINNACLE ID	: 903096
PROJECT#	: (none)	DATE RECEIVED	: 3/31/99
PROJECT NAME	: ENRON-ROSWELL	REPORT DATE	: 4/1/99
PIN			DATE
ID. #	CLIENT DESCRIPTION	MATRIX	COLLECTED
01	9903301625 (MW-26)	AQUEOUS	3/30/99
02	9903301645 (MW-25D)	AQUEOUS	3/30/99
03	9903301745 (MW-24D)	AQUEOUS	3/30/99





TEST

: VOLATILE ORGANICS EPA METHOD 8260

CLIENT PROJECT# : NM OIL CONSERVATION DIVISION

: NONE

PINNACLE I.D. : DATE RECEIVED : 903096 3/31/99

PROJECT NAME

: ENRON-ROSWELL

\_\_\_\_

PROJECT NAME :	ENRON-ROSW	ELL	5.475			
SAMPLE	OLIENT ID	MATRIX	DATE	DATE	DATE	DIL.
ID#	CLIENT ID	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
903096-01	9903301625 (MW-26)	AQUEOUS	3/30/99	N/A	03/31/99	11
PARAMETER	DET. LIMIT		UNITS			
Dichlorodifluoromethane	1.0	1.6	ug/L		,	
Chloromethane	1.0	< 1.0	ug/L			
	1.0	< 1.0	ug/L ug/L			
Vinyl Chloride	1.0	< 1.0	ug/L			
Bromomethane	1.0					
Chloroethane	1.0	< 1.0	ug/L			
Trichlorofluoromethane		< 1.0	ug/L			
Acetone	10	< 10	ug/L			
Acrolein	5.0	< 5.0	ug/L			
1,1-Dichloroethene	1.0	< 1.0	ug/L			
lodomethane	1,0	< 1.0	ug/L			
Methylene Chloride	1.0	< 1.0	ug/L			
Acrylonitrile	5.0	< 5.0	ug/L			
cis-1,2-Dichloroethene	1.0	< 1.0	ug/L			
Methyl-t-butyl Ether	1.0	< 1.0	ug/L			
1,1,2,1,2,2-Trichlorotrifluoroethane	1.0	1.2	ug/L			
1,1-Dichloroethane	1.0	< 1.0	ug/L			
trans-1,2-Dichloroethene	1.0	< 1.0	ug/L			
2-Butanone	10	< 10	ug/L			
Carbon Disulfide	1.0	< 1.0	ug/L			
Bromochloromethane	1.0	< 1.0	ug/L			
Chloroform	1.0	< 1.0	ug/L			
2,2-Dichloropropane	1.0	< 1.0	ug/L			
1,2-Dichloroethane	1.0	< 1.0	ug/L			
Vinyl Acetate	1.0	< 1.0	ug/L			
1,1,1-Trichloroethane	1.0	< 1.0	ug/L			
1,1-Dichloropropene	1.0	< 1.0	ug/L			
Carbon Tetrachloride	1.0	< 1.0	ug/L			
Benzene	1.0	< 1.0	ug/L			
1,2-Dichloropropane	1.0	< 1.0	ug/L			
Trichloroethene	1.0	< 1.0	ug/L			
Bromodichloromethane	1.0	< 1.0	ug/L			
2-Chloroethyl Vinyl Ether	10	< 10	ug/L			
cis-1,3-Dichloropropene	1.0	< 1.0	ug/L			
trans-1,3-Dichloropropene	1.0	< 1.0	ug/L			
1,1,2-Trichloroethane	1.0	< 1.0	ug/L	•		
1,3-Dichloropropane	1.0	< 1.0	ug/L			
Dibromomethane	1.0	< 1.0	ug/L			
Toluene	1.0	< 1.0	ug/L			
1,2-Dibromoethane	1.0	< 1.0	ug/L			
4-Methyl-2-Pentanone	10	< 10	ug/L			
2-Hexanone	10	< 10	ug/L			
Dibromochloromethane	1.0	< 1.0	ug/L	•		
Tetrachioroethene	1.0	< 1.0	-			
Chlorobenzene	1.0	< 1.0	<i>ug/L</i> ug/L			
Chloropenzene Ethylbenzene	1.0	< 1.0	ug/L ug/L			
•			ug/L ug/L			
1,1,1,2-Tetrachloroethane	1.0	< 1.0	ug/L			

2709-D Pan American Freeway NE Albuquerque, New Mexico 87107 Phone (505) 344-3777 Fax (505) 344-4413

### GC/MS RESULTS

: VOLATILE ORGANICS EPA METHOD 8260

CLIENT

: NM OIL CONSERVATION DIVISION

PINNACLE I.D. :

903096

PROJECT#

: NONE

DATE RECEIVED :

3/31/99

PROJ	IEC.	٦N	ΙΑΝ	ΙE

: ENRON-ROSWELL

PROJECT NAME	: ENRON-ROSW	ELL				
SAMPLE			DATE	DATE	DATE	DIL.
ID#	CLIENT ID	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
	9903301625					
903096-01	(MW-26)	AQUEOUS	3/30/99	N/A	03/31/99	1
PARAMETER	DET. LIMIT		UNITS			
m&p Xylenes	1.0	< 1.0	ug/L			
o-Xylene	1.0	< 1.0	ug/L			
Styrene	1.0	< 1.0	ug/L			
Bromoform	1.0	< 1.0	ug/L			
1,1,2,2-Tetrachloroethane	1.0	< 1.0	ug/L			
1,2,3-Trichloropropane	1.0	< 1.0	ug/L			
Isopropyl Benzene	1.0	< 1.0	ug/L			
Bromobenzene	1.0	< 1.0	ug/L			
trans-1,4-Dichloro-2-Butene	1.0	< 1.0	ug/L			
n-Propylbenzene	1.0	< 1.0	ug/L			
2-Chlorotoluene	1.0	< 1.0	ug/L			
4-Chlorotoluene	1.0	< 1.0	ug/L			
1,3,5-Trimethylbenzene	1.0	< 1.0	ug/L			
tert-Butylbenzene	1.0	< 1.0	ug/L			
1,2,4-Trimethylbenzene	1.0	< 1.0	ug/L			
sec-Butylbenzene	1.0	< 1.0	ug/L			
1,3-Dichlorobenzene	1.0	< 1.0	ug/L			
1,4-Dichlorobenzene	1.0	< 1.0	ug/L			
p-isopropyltoluene	1.0	< 1.0	ug/L			
1,2-Dichlorobenzene	1.0	< 1.0	ug/L			
n-Butylbenzene	1.0	< 1.0	ug/L			
1,2-Dibromomo-3-chloropropane	1.0	< 1.0	ug/L			
1,2,4-Trichlorobenzene	1.0	< 1.0	ug/L			
Naphthalene	1.0	< 1.0	ug/L			
Hexachlorobutadiene	1.0	< 1.0	ug/L			
1,2,3-Trichlorobenzene	1.0	< 1.0	ug/L			
SURROGATE % RECOVERY						
1.2-Dichloroethane-d4		98				

1,2-Dichloroethane-d4

98 (80 - 120)

Toluene-d8

100

Bromofluorobenzene

(88 - 110) 93

(86 - 115)





TEST

: VOLATILE ORGANICS EPA METHOD 8260

CLIENT

NM OIL CONSERVATION DIVISION

PINNACLE I.D.:

903096

PROJECT#

: NONE

DATE RECEIVED:

3/31/99

PROJECT #	: NONE		DATE RECEIVED :			3/31/99	
PROJECT NAME	: ENRON-ROSW	ELL					
SAMPLE		•	DATE DATE DATE			DIL.	
ID#	D# CLIENT ID MATE		SAMPLED	EXTRACTED	ANALYZED	FACTOR	
	9903301645	·					
903096-02	(MW-25D)	AQUEOUS	3/30/99	N/A	03/31/99	1	
PARAMETER	DET. LIMIT		UNITS				
Dichlorodifluoromethane	1.0	< 1.0	ug/L				
Chloromethane	1.0	< 1.0	ug/L				
Vinyl Chloride	1.0	< 1.0	ug/L				
Bromomethane	1.0	< 1.0	ug/L				
Chloroethane	1.0	< 1.0	ug/L				
Trichlorofluoromethane	1.0	< 1.0	ug/L				
Acetone	10	< 10	ug/L				
Acrolein	5.0	< 5.0	ug/L				
1,1-Dichloroethene	1.0	< 1.0	ug/L				
lodomethane	1.0	< 1.0	ug/L ug/L				
			-				
Methylene Chloride	1.0	< 1.0	ug/L				
Acrylonitrile	5.0	< 5.0	ug/L				
cis-1,2-Dichloroethene	1.0	< 1.0	ug/L				
Methyl-t-butyl Ether	1.0	< 1.0	ug/L				
1,1,2,1,2,2-Trichlorotrifluoroethane	1.0	< 1.0	ug/L 				
1,1-Dichloroethane	1.0	< 1.0	ug/L				
trans-1,2-Dichloroethene	1.0	< 1.0	ug/L				
2-Butanone	10	< 10	ug/L				
Carbon Disulfide	1.0	< 1.0	ug/L				
Bromochloromethane	1.0	< 1.0	ug/L				
Chloroform	1.0	< 1.0	ug/L				
2,2-Dichloropropane	1.0	< 1.0	ug/L				
1,2-Dichloroethane	1.0	< 1.0	ug/L				
Vinyl Acetate	1.0	< 1.0	ug/L				
1,1,1-Trichloroethane	1.0	< 1.0	ug/L				
1,1-Dichloropropene	1.0	< 1.0	ug/L				
Carbon Tetrachloride	1,0	< 1.0	ug/L				
Benzene	1.0	< 1.0	ug/L				
1,2-Dichloropropane	1.0	< 1.0	ug/L				
Trichloroethene	1.0	< 1.0	ug/L				
Bromodichloromethane	1,0	< 1.0	ug/L				
2-Chloroethyl Vinyl Ether	10	< 10	ug/L				
cis-1,3-Dichloropropene	1.0	< 1.0	ug/L				
trans-1,3-Dichloropropene	1.0	< 1.0	ug/L				
1,1,2-Trichloroethane	1.0	< 1.0	ug/L				
1,3-Dichloropropane	1.0	< 1.0	ug/L				
· · · · · · · · · · · · · · · · · · ·			-				
Dibromomethane 	1.0	< 1.0	ug/L				
Toluene	1.0	< 1.0	ug/L				
1,2-Dibromoethane	1.0	< 1.0	ug/L				
4-Methyl-2-Pentanone	10	< 10	ug/L				
2-Hexanone	10	< 10	ug/L				
Dibromochloromethane	1.0	< 1.0	ug/L				
Tetrachloroethene	1.0	< 1.0	ug/L				
Chlorobenzene	1.0	< 1.0	ug/L				
Ethylbenzene	1.0	< 1.0	ug/L				
1,1,1,2-Tetrachloroethane	1.0	< 1.0	ug/L				





**TEST** 

: VOLATILE ORGANICS EPA METHOD 8260

CLIENT

: NM OIL CONSERVATION DIVISION

PINNACLE I.D.:

903096

PROJECT#

: NONE

DATE RECEIVED:

3/31/99

PROJECT NAME	: ENRON-ROSW	ELL				
SAMPLE			DATE	DATE	DATE	DIL.
ID#	CLIENT ID MATRIX		SAMPLED	EXTRACTED	ANALYZED	FACTOR
	9903301645					
903096-02	(MW-25D)	AQUEOUS	3/30/99	N/A	03/31/99	1
PARAMETER	DET. LIMIT		UNITS			
m&p Xylenes	1.0	< 1.0	ug/L			
o-Xylene	1.0	< 1.0	ug/L			
Styrene	1.0	< 1.0	ug/L			
Bromoform	1.0	< 1.0	ug/L			
1,1,2,2-Tetrachloroethane	1.0	< 1.0	ug/L			
1,2,3-Trichloropropane	1.0	< 1.0	ug/L			
Isopropyl Benzene	1,0	< 1.0	ug/L			
Bromobenzene	1.0	< 1.0	ug/L			
trans-1,4-Dichloro-2-Butene	1,0	< 1.0	ug/L			
n-Propylbenzene	1.0	< 1.0	ug/L			
2-Chlorotoluene	1.0	< 1.0	ug/L			
4-Chlorotoluene	1.0	< 1.0	ug/L			
1,3,5-Trimethylbenzene	1.0	< 1.0	ug/L			
tert-Butylbenzene	1.0	< 1.0	ug/L			
1,2,4-Trimethylbenzene	1,0	< 1.0	ug/L			
sec-Butylbenzene	1.0	< 1.0	ug/L			
1,3-Dichlorobenzene	1.0	< 1.0	ug/L			
1,4-Dichlorobenzene	1.0	< 1.0	ug/L			
p-Isopropyltoluene	1.0	< 1.0	ug/L			
1,2-Dichlorobenzene	1.0	< 1.0	ug/L			
n-Butylbenzene	1.0	< 1.0	ug/L			
1,2-Dibromomo-3-chloropropane	1.0	< 1.0	ug/L			
1,2,4-Trichlorobenzene	1.0	< 1.0	ug/L			
Naphthalene	1.0	< 1.0	ug/L			
Hexachlorobutadiene	1.0	< 1.0	ug/L			
1,2,3-Trichlorobenzene	1.0	< 1.0	ug/L			
SURROGATE % RECOVERY						
1,2-Dichloroethane-d4		99				
		( 80 - 120 )				
*						

Toluene-d8

99

( 88 - 110 )

Bromofluorobenzene

94

(86 - 115)





TEST

: VOLATILE ORGANICS EPA METHOD 8260

CLIENT PROJECT# : NM OIL CONSERVATION DIVISION

: NONE

PINNACLE I.D. : DATE RECEIVED: 903096 3/31/99

110000111			DITTE TREDETTED :			0/0/1/00	
PROJECT NAME	DJECT NAME : ENRON-ROSWELL						
SAMPLE			DATE	DATE	DATE	DIL.	
ID#	CLIENT ID	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR	
	9903301745						
903096-03	(MW-24D)	AQUEOUS	3/30/99	N/A	03/31/99	1	
PARAMETER	DET. LIMIT		UNITS				
Dishlaradiffusesamothera	1.0	- 10	ua/I				
Dichlorodifluoromethane	1.0	< 1.0	ug/L				
Chloromethane	1.0	< 1.0	ug/L				
Vinyl Chloride	1.0	< 1.0	ug/L				
Bromomethane	1.0	< 1.0	ug/L				
Chloroethane	1.0	< 1.0	ug/L				
Trichlorofluoromethane	1.0	< 1.0	ug/L				
Acetone	10	< 10	ug/L				
Acrolein	5.0	< 5.0	ug/L				
1,1-Dichloroethene	1.0	< 1.0	ug/L				
lodomethane	1.0	< 1.0	ug/L				
Methylene Chloride	1.0	< 1.0	ug/L				
Acrylonitrile	5.0	< 5.0	ug/L				
cis-1,2-Dichloroethene	1.0	< 1.0	ug/L				
Methyl-t-butyl Ether	1.0	< 1.0	ug/L				
1,1,2,1,2,2-Trichlorotrifluoroethane	1.0	< 1.0	ug/L				
1,1-Dichloroethane	1.0	< 1.0	ug/L				
trans-1,2-Dichloroethene	1.0	< 1.0	ug/L				
2-Butanone	10	< 10	ug/L				
Carbon Disulfide	1.0	< 1.0	ug/L				
Bromochloromethane	1.0	< 1.0	ug/L				
Chloroform	1.0	< 1.0	ug/L				
2,2-Dichloropropane	1.0	< 1.0	ug/L				
1,2-Dichloroethane	1.0	< 1.0	ug/L				
Vinyl Acetate	1.0	< 1.0	ug/L				
1,1,1-Trichloroethane	1.0	< 1.0	ug/L				
1,1-Dichloropropene	1.0	< 1.0	ug/L				
Carbon Tetrachloride	1.0	< 1.0	ug/L				
Benzene	1.0	< 1.0	ug/L				
1,2-Dichloropropane	1.0	< 1.0	ug/L				
Trichloroethene	1.0	< 1.0	ug/L				
Bromodichloromethane	1.0	< 1.0	ug/L				
2-Chloroethyl Vinyl Ether	10	< 10	ug/L				
cis-1,3-Dichloropropene	1,0	< 1.0	ug/L				
trans-1,3-Dichloropropene	1.0	< 1.0	ug/L				
1,1,2-Trichloroethane	· 1.0	< 1.0	ug/L				
1,3-Dichloropropane	1.0	< 1.0	ug/L				
Dibromomethane	1.0	< 1.0	ug/L				
Toluene	1.0	< 1.0	ug/L				
1,2-Dibromoethane	1.0	< 1.0	ug/L				
4-Methyl-2-Pentanone	10	< 10	ug/L				
2-Hexanone	10	< 10	ug/L				
Dibromochloromethane	1.0	< 1.0	ug/L				
Tetrachloroethene	1.0	< 1.0	ug/L				
Chlorobenzene	1.0	< 1.0	ug/L				
Ethylbenzene	1.0	< 1.0	ug/L				
1,1,1,2-Tetrachloroethane	1.0	< 1.0	ug/L ug/L				
1, 1, 1,2-1 et acmordeniane	1.0	- 1.0	ug/L				





TEST

: VOLATILE ORGANICS EPA METHOD 8260

CLIENT

NM OIL CONSERVATION DIVISION

PROJECT#

NONE

PINNACLE I.D.:

903096

PROJECT NAME

ENRON-ROSWELL

DATE RECEIVED: 3/31/99

PROJECT NAME	: ENRON-ROSW	'ELL				
SAMPLE			DATE	DATE	DATE	DIL.
ID#	CLIENT ID	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
	9903301745					
903096-03	(MW-24D)	AQUEOUS	3/30/99	N/A	03/31/99	1
PARAMETER	DET. LIMIT		UNITS			
m&p Xylenes	1.0	< 1.0	ug/L			
o-Xylene	1.0	< 1.0	ug/L			
Styrene	1.0	< 1.0	ug/L			
Bromoform	1.0	< 1.0	ug/L	_		
1,1,2,2-Tetrachloroethane	1.0	< 1.0	ug/L	•	,	
1,2,3-Trichloropropane	1.0	< 1.0	ug/L			
sopropyl Benzene	1.0	< 1.0	ug/L			
Bromobenzene	1.0	< 1.0	ug/L			
rans-1,4-Dichloro-2-Butene	1.0	< 1.0	ug/L			
n-Propylbenzene	1.0	< 1.0	ug/L			
2-Chlorotoluene	1.0	< 1.0	ug/L			
-Chlorotoluene	1.0	< 1.0	ug/L			
,3,5-Trimethylbenzene	1.0	< 1.0	ug/L			
ert-Butylbenzene	1.0	< 1.0	ug/L			
,2,4-Trimethylbenzene	1.0	< 1.0	ug/L			
sec-Butylbenzene	1.0	< 1.0	ug/L			
1,3-Dichlorobenzene	1.0	< 1.0	ug/L			
I,4-Dichlorobenzene	1.0	< 1.0	ug/L			
-isopropyltoluene	1.0	< 1.0	ug/L			
,2-Dichlorobenzene	1.0	< 1.0	ug/L			
n-Butylbenzene	1.0	< 1.0	ug/L			
,2-Dibromomo-3-chloropropane	1,0	< 1.0	ug/L			
,2,4-Trichlorobenzene	1.0	< 1.0	ug/L			
Naphthalene	1.0	< 1.0	ug/L			
dexachlorobutadiene	1.0	< 1.0	ug/L			
1,2,3-Trichlorobenzene	1.0	< 1.0	ug/L			
SURROGATE % RECOVERY						
,2-Dichloroethane-d4		102				
.,		(80 - 120)				
Foluene-d8		98				
3.232 30		(88 - 110)				
Bromofluorobenzene		93				

(86 - 115)





TEST

: VOLATILE ORGANICS EPA METHOD 8260

CLIENT

: NM OIL CONSERVATION DIVISION

PINNACLE I.D. :

903096

PROJECT#

: NONE

PROJECT NAME

: ENRON-ROSWELL

SAMPLE SAMPLE	: ENRON-ROSWELL		DATE	DATE	DIL.
ID#	BATCH	MATRIX	EXTRACTED	ANALYZED	FACTOR
REAGENT BLANK	033199	AQUEOUS	N/A	03/31/99	1
PARAMETER	DET. LIMIT	UNITS			
Dichlorodifluoromethane	1.0 <	1.0 ug/L			
Chloromethane		1.0 ug/L			
Vinyl Chloride		1.0 ug/L			
Bromomethane		1.0 ug/L			
Chloroethane		1.0 ug/L			
Trichlorofluoromethane		1.0 ug/L			
Acetone	10 <				
Acrolein		5.0 ug/L			
1,1-Dichloroethene		1.0 ug/L			
lodomethane		1.0 ug/L			
Methylene Chloride		1.0 ug/L			
Acrylonitrile		5.0 ug/L			
cis-1,2-Dichloroethene		1.0 ug/L			
Methyl-t-butyl Ether	1.0 <				
1,1,2,1,2,2-Trichlorotrifluoroethane		1.0 ug/L			
1,1-Dichloroethane	1.0				
·		1.0 ug/L			
rans-1,2-Dichloroethene 2-Butanone	1.0 <				
		•			
Carbon Disulfide Bromochloromethane		1.0 ug/L 1.0 ug/L			
	1.0 <	•			
Chloroform		1.0 ug/L 1.0 ug/L			
2,2-Dichloropropane		•			
1,2-Dichloroethane		•			
Vinyl Acetate	1.0 <	<del>-</del>			
1,1,1-Trichloroethane		1.0 ug/L			
1,1-Dichloropropene	1.0 <	•			
Carbon Tetrachloride	1.0 <	_			
Benzene	1.0 <	•			
1,2-Dichloropropane	1.0 <	•			
Trichloroethene	1.0 <	•			
Bromodichloromethane	1.0 <	_			
2-Chloroethyl Vinyl Ether	10 <				
cis-1,3-Dichloropropene	1.0 <	•			
rans-1,3-Dichloropropene	1.0 <	~			
,1,2-Trichloroethane	1.0 <				
,3-Dichloropropane	1.0 <	-			
Dibromomethane	1.0 <	-			
Toluene	1.0 <	-			
,2-Dibromoethane	1.0 <	-			
I-Methyl-2-Pentanone	10 <	_			
?-Hexanone	10 <	-			
Dibromochloromethane	1.0 <	=			
etrachloroethene	1.0 <	_			
Chlorobenzene	1.0 <				
Ethylbenzene	1.0 < 1	I.0 ug/L			





TEST

: VOLATILE ORGANICS EPA METHOD 8260

CLIENT

: NM OIL CONSERVATION DIVISION

PINNACLE I.D.:

903096

PROJECT#

: NONE · FNRON-ROSWELL

PROJECT NAME	: ENRON-ROSWELL				
SAMPLE	· · · · · · · · · · · · · · · · · · ·		DATE	DATE	DIL.
ID#	BATCH	MATRIX	EXTRACTED	ANALYZED	FACTOR

ID#	BATCH		MATRIX	EXTRACTED	ANALYZED	FACTOR
REAGENT BLANK	033199		AQUEOUS	N/A	03/31/99	1
PARAMETER	DET, LIMIT		UNITS			
1,1,1,2-Tetrachloroethane	1.0	< 1.0	ug/L			
m&p Xylenes	1.0	< 1.0	υg/L			
o-Xylene	1.0	< 1.0	ug/L			
Styrene	1.0	< 1.0	ug/L			
Bromoform	1.0	< 1.0	ug/L			
1,1,2,2-Tetrachloroethane	1.0	< 1.0	υg/L			
1,2,3-Trichloropropane	1.0	< 1.0	ug/L			
Isopropyl Benzene	1.0	< 1.0	ug/L			
Bromobenzene	1.0	< 1.0	ug/L			
trans-1,4-Dichloro-2-Butene	1.0	< 1.0	ug/L			
n-Propylbenzene	1.0	< 1.0	ug/L			
2-Chlorotoluene	1.0	< 1.0	ug/L			
4-Chlorotoluene	1.0	< 1.0	ug/L			
1,3,5-Trimethylbenzene	1.0	< 1.0	ug/L			
tert-Butylbenzene	1.0	< 1.0	ug/L			
1,2,4-Trimethylbenzene	1.0	< 1.0	ug/L			
sec-Butylbenzene	1.0	< 1.0	ug/L			
1,3-Dichlorobenzene	1.0	< 1.0	ug/L			
1,4-Dichlorobenzene	1.0	< 1.0	ug/L			
p-Isopropyltoluene	1.0	< 1.0	ug/L			
1,2-Dichlorobenzene	1.0	< 1.0	ug/L			
n-Butylbenzene	1.0	< 1.0	ug/L			
1,2-Dibromomo-3-chloropropane	1.0	< 1.0	ug/L			
1,2,4-Trichlorobenzene	1.0	< 1.0	ug/L			
Naphthalene	1.0	< 1.0	ug/L			
Hexachlorobutadiene	1.0	< 1.0	ug/L			
1,2,3-Trichlorobenzene	1.0	< 1.0	ug/L			
SURROGATE % RECOVERY						
1,2-Dichloroethane-d4		1	01			
		( 80	- 120 )			
Toluene-d8		•	97			
		( 88	- 110 )			
Bromofluorobenzene			94			

101
( 80 - 120 )
97
( 88 - 110 )
94
( 86 - 115 )



2709-D Pan American Freeway NE Albuquerque, New Mexico 87107 Phone (505) 344-3777 Fax (505) 344-4413

#### MATRIX SPIKE/MATRIX SPIKE DUPLICATE RESULTS

: VOLATILE ORGANICS EPA METHOD 8260

SPIKED SAMPLE

: 903096-01

CLIENT PROJECT# : NM OIL CONSERVATION DIVISION

PROJECT NAME

: NONE : ENRON-ROSWELL PINNACLE I.D.

DATE ANALYZED : UNITS

3/31/99 : ug/L (PPB)

COMPOUND	SAMPLE CONC.	SPIKE ADDED	MS RESULT	MSD RESULT	MS %REC	MSD %REC	RPD	QC LIMITS RPD	QC LIMITS %RECOVERY
1,1-DICHLOROETHENE	<1.0	50.0	55.4	53.8	111	108	3	14	61-145
BENZENE	<1.0	50.0	58.5	56.2	117	112	4	11	76-127
TRICHLOROETHENE	<1.0	50.0	52.3	50.7	105	101	3	14	71-120
TOLUENE	<1.0	50.0	53.9	51.9	108	104	4	13	76-125
CHLOROBENZENE	<1.0	50.0	53.8	53.1	108	106	1	13	75-130

CHAIN OF CUSTODY
DATE: 3/3/99 PAGE: 1 OF 1 Pinnacle Laboratories Inc. PLI Accession #: PROJECT MANAGER: () Ison **ANALYSIS REQUEST** ONLY. Division Petroleum Hydrocarbons (418.1) TRPH COMPANY: Base/Neutral/Acid Compounds GC/MS (625/8270) O PCE 8021 (BTEX)/8015 (Gasoline) MTBE ADDRESS: USE £7505 Pesticides /PCB (608/8081/8082) (MOD.8015) Diesel/Direct Inject 8260 (Landfill) Volatile Organics O TMB 8260 (CUST) Volatile Organics 8260 (TCL) Volatile Organics 8260 (Full) Volatile Organics PHONE: M8015) Gas/Purge & Trap LAB FAX. 504.1 EDB□/DBCP□ ☐ MTBE Herbicides (615/8151) FOR Same BILL TO: COMPANY: 8021 (BTEX) 8021 (HALO) 8021 (CUST) 8021 (EDX) ADDRESS: 4 8021 AREAS SAMPLE ID DATE TIME MATRIX LAB I.D 01 02 3 SHADED 03 3 **bLETELY**. S PROJECT INFORMATION PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS RELINQUISHED BY: FORM IN PROJ. NO.: (RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐1 WEEK (NORMAL) PROJ. NAME: ENRON-CERTIFICATION REQUIRED: INM SDWA **□** OTHER P.O. NO.: METHANOL PRESERVATION [ THIS SHIPPED VIA: COMMENTS: FIXED FEE [ See reverse side (Force Magure) SAMPLE RECEIPT RECEIVED BY: FILL NO. CONTAINERS Signature: Time: Y) N/NA **CUSTODY SEALS** S, S, Printed Name: Date: RECEIVED INTACT PLEAS

Polynuclear Aromatics (610/8310/8270-SIMS) RCRA Metals by TCLP (Method 1311) Farget Analyte List Metals (23) Priority Pollutant Metals (13) NUMBER OF CONTAINERS General Chemistry: RCRA Metals (8) Metals: RELINQUISHED BY: 2. Signature: 0830 Printed Name: RECEIVED BY: (LAB) /Time: Printed Name: BLUE ICEACE Pinnacle Laboratories Inc. 11/10/98 PLI Inc.: Pinnacle Laboratories, Inc. • 2709-D Pan American Freeway, NE • Albuquerque, New Mexico 87107 • (505) 344-3777 • Fax (505) 344-4413 • E-mail: PIN\_LAB@WORLDNET.ATT.NET DISTRIBUTION: White - PLI, Canary - Originator

903096



## Cypress Engineering

10235 W. Little York Rd., Ste. 256 Houston, Texas 77040

(713) 856-7980 office (713) 856-7981 fax

George C. Robinson, P.E.

c/o: ENRON Gas Pipeline Group Environmental Affairs; Room 3AC-3142

(713) 646-7327 ENRON office (713) 646-7867 ENRON fax

## **FAX Transmission**

To:

Bill Olson

Fax:

505-827-8177

From:

George C. Robinson

Date:

October 7, 1998

Comments:

Pages:

(including this cover)



GARY E. JOHNSON GOVERNOR

## State of New Mexico ENVIRONMENT DEPARTMENT

Hazardous & Radioactive Materials Bureau
2044 Galisteo Street
P.O. Box 26110
Santa Fe, New Mexico 87502
(505) 827-1557
Fax (505) 827-1544



PETER MAGGIORE
SECRETARY

September 30, 1998

Mr. Bill Kendrick ENRON Gas Pipeline Group P.O. Box 1188 Houston, Texas 77251-1188

Dear Mr. Kendrick:

The New Mexico Environment Department (NMED) has been receiving updates on ENRON's efforts on environmental sampling and the on-going effort to address the environmental concerns at the Roswell Compressor Station site by the Transwestern Pipeline Company. The Hazardous and Radioactive Materials Bureau (HRMB), at this time, is not taking a position on the acceptability of the remedial and monitoring efforts as they may or may not relate to compliance with New Mexico's Hazardous Waste Act (HWA), the Resource Conservation Recovery Act (RCRA) or regulations promulgated under those acts.

The HRMB and NMED reserve any and all rights under New Mexico's Hazardous Waste Act (HWA), the Resource Conservation and Recovery Act (RCRA) as amended by the Hazardous Solid Waste Amendment of 1984 and regulations promulgated under those statutes and as authorized for implementation by the State of New Mexico and by the U.S. Environmental Protection Agency (EPA) at any point in time.

Please continue to keep us informed of your efforts at the site. Contact me at (505) 827-1557 or Ms. Susan Mc Michael at (505) 827-0127 should you have questions on this letter.

Sincerely,

Benito J. Garcia Chief, HRMB

cc: Susan Mc Michael, Office of General Counsel, NMED Ed Kelley, Ph.D., Director, WWMD, NMED

Haicen

Dave Neleigh, EPA, Region 6

## Olson, William

From:

Robinson, George[SMTP:grobins@enron.com]

Reply To:

grobins@enron.com

Sent:

Monday, August 03, 1998 6:05 PM

To:

Olson, William; JERRY\_BOBER@NMENV.STATE.NM.US

Cc:

bkendri@enron.com

Subject:

Transwestern Roswell Station

Transwestern Pipeline Company will be completing a quarterly ground water sampling event at the Roswell Station during the week of August 10-14, 1998. In addition, Transwestern will initiate the Phase IV Soil and Ground Water Assessment Plan field activities on August 10, 1998. These activities are anticipated to continue through August 21, 1998. Toward the end of this period, Transwestern will be collecting ground water samples from four additional monitor wells that are to be installed in the course of the Phase IV activities. Both the OCD and the NMED staff are invited to participate in these activities to witness sampling procedures and/or to collect split samples. If your office is interested in participating, please call me at (713) 646-7327 and let me know so that we can coordinate our schedules.

Thanks,

George Robinson



July 23, 1998

Mr. William C. Olson Environmental Bureau New Mexico Oil Conservation Division 2040 S. Pacheco St. Santa Fe, New Mexico 87505

RE: Final Disposition of Investigation Derived Wastes (IDW)
Roswell Compressor Station
Transwestern Pipeline Company

Dear Bill,

In the course of assessment activities approximately 300 gallons of clean purge water has been collected. The purge water is currently stored at the site in six drums. Five of the drums are 100% full and one is half full.

The proposed final disposition of purge water contained in the six drums is based upon the results of laboratory analyses of ground water samples collected from each well. The contents of each of the six drums is summarized in the table below.

Source	Drums	Lab Results	Comments/Disposition
MW-23D purge water (1/98 sampling event)	2	non-detect for all VOCs & SVOCs	discharge to ground surface
MW-6, 11, 5, 10, 3, 19, 18, 17 and 8 purge water (1/98 sampling event)	1	non-detect for all VOCs & SVOCs	discharge to ground surface
MW-22 & 18 (8/97 sampling event) MW-10, 18, 14, 8 & 7 purge water (11/97 sampling event)	1	non-detect for all VOCs & SVOCs	discharge to ground surface
MW-11, 3, 5, 6 & 9 (8/97 sampling event)  MW-5, 6, 11, 19 & 17 purge water (11/97 sampling event)	1	non-detect for all VOCs & SVOCs	discharge to ground surface
MW-15, 9, 3 & 22 (11/97 sampling event)  MW-15, 9, 22 & 7 purge water (1/98 sampling event)	1	non-detect for all VOCs & SVOCs	discharge to ground surface



P.O. Box 1188 Houston, TX 77251-1188 (713) 853-6161



## Notes:

• The laboratory reports for ground water samples supporting the information indicated under the column heading "Lab Results" were included in the Phase III assessment report and Phase IV assessment plan previously submitted to your office for review.

Transwestern will implement the proposed disposition of IDW upon obtaining approval from your office. If you have any questions regarding this issue, please contact me at (713) 646-7644 or George Robinson at (713) 646-7327.

Sincerely,

Bill Kendrick

Manager, Environmental Affairs

sls/BK

enclosure

xc w/enclosure: Tim Gum

NMOCD Artesia District Office

10235 West Little York Road, Suite 256 Houston, Texas 77040

(713) 856-7980 office (713) 856-7981 fax

June 5, 1998

Salt Creek Farm & Ranch Attn.: Mr. Bob Naylor P.O. Box 1973 Roswell, NM 88202

RECEIVED

JUN 0 8 1998

ENVIRONMENTAL BUREAU OIL CONSERVATION DIVISION

RE: Transwestern Pipeline Company Results of Water Well Sampling

Dear Mr. Naylor,

The purpose of this letter is to transmit the results for the recent sampling of a water well located at the Salt Creek Ranch.

Sampling activities were completed on May 6-7, 1998, by Mr. Clayton Barnhill of CMB Environmental located in Roswell, NM. The primary purpose of these activities was to obtain a measurement of depth to water and a surveyed elevation of the depth to water measuring point at each of three regional aquifer water wells located near Transwestern's Roswell Station. Wagener Engineering of Roswell, NM, provided the surveying services.

Table 1, attached, presents a summary of depth to water measurements and the calculated water surface elevation for the three wells completed within the regional aquifer. This information is also presented in Figure 1 which indicates that the local direction of ground water flow within the regional aquifer is toward the northeast.

A secondary objective was to obtain a sample from the water well located at the Salt Creek Ranch. This water sample was collected purely as a conservative measure. Approximately 3400 gallons of water was purged prior to collecting samples for laboratory analysis. A "Well Data Form" provided by CMB Environmental for the purging and sampling procedure is attached. Table 2, attached, presents a summary of the laboratory analytical results for the ground water samples collected. None of the organic constituents of concern present at Transwestern's Roswell Station former impoundment area were detected in the ground water samples collected from the Salt Creek Ranch water well.

If you have any questions or comments regarding this transmittal, please contact me at telephone number (713) 646-7327.

Sincerely,

George C. Robinson, P.E.

President

## xc w/attachment:

Mr. Larry Campbell Transwestern Pipeline Company 6381 North Main Street Roswell, NM 88201

Mr. Bill Olson NM Oil Conservation Division 2040 S. Pacheco St. Santa Fe, NM 87505

Mr. Dennis Karnes Pecos Valley Artesian Conservancy District P.O. Box 1346 Roswell, NM 88202 Mr. Bill Kendrick ENRON Gas Pipeline Group P.O. Box 1188 Houston, TX 77251-1188

Mr. Jerry Bober NM Environment Dept./HRMB 2044 Galisteo St., Bldg A Santa Fe, NM 87505

Mr. Robert Young NM State Land Office 310 Old Santa Fe Trail Santa Fe, NM 87504

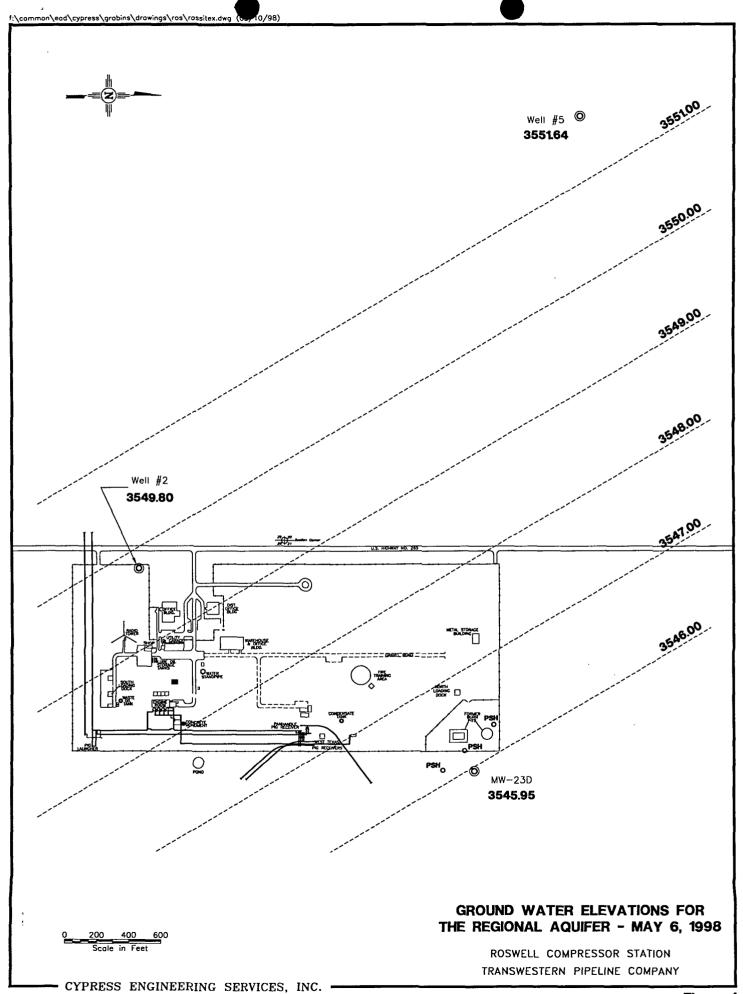


Table 1. Summary of Ground Water Surface Elevations in the Regional Aquifer Compressor Station No. 9 - Roswell, NM

Well ID	Sampling Date	Top of Casing (ft)	Depth to Water (ft)	Surface Elevation (ft)
MW-23 D	08/19/97	3605.16	62.05	3543.11
	10/30/97		59.11	3546.05
	01/26/98		56.19	3548.97
	05/06/98	3604.96 (b)	59.01	3545.95
	05/07/98		59.08	3545.88
Well #2	05/06/98	3615.28 (b)	65.48	3549.80
	05/07/98		65.51	3549.77
Well #5	05/06/98	3635.39 (b)	83.75	3551.64
	05/07/98		83.79	3551.60

#### NOTES:

(b) Elevation based on survey by Wagener Engineering dated 5/6/98

MW-23D - Deep monitor well located at NE corner of Roswell Station site

Well #2 - Pecos Valley Artesian Conservancy District monitor well located at SW corner of Roswell Station site

Well #5 - Offsite water well located at approximately 2800 feet W of NW corner of Roswell Station site

## Table 2. Summary of Ground Water Analyses - Offsite Well #5 Compresor Station No. 9 - Roswell, NM

		_	anics g/L)		Major lons (mg/L)					Metals (mg/L)														
Well ID	Sampling Date	vocs	PAHs	TDS	Chloride	Sulfate	NO2/NO3 - N, total	Calcium	Potassium	Magnesium	Sodium	Total alkalinity (as CaCO <sub>3</sub> )	Arsenic	Barium	Cadmium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Selenium	Silver	Zinc
NMWQCC S	Standard	varies	varies	1000	250	600	10	none	none	none	none	none	0.1	1.0	0.01	0.05	1.0	1.0	0.05	0.20	0.002	0.2	0.05	0.05
Well #5	12/22/94 05/07/98	all ND	all ND	2420 1900	750 680	768 800	1.74 1.48	297 241	1.7	80.5 69.4	502 387	154 141	< 0.05 < 0.1	0.02 0.022	< 0.005 < 0.005	< 0.01 < 0.01	< 0.01 < 0.01	0.32 < 0.02	< 0.05 < 0.05	< 0.01 0.012	< 0.0002 < 0.0002	< 0.1 < 0.1	< 0.01 < 0.01	< 0.01 < 0.02

#### NOTES:

<sup>&</sup>quot;--" - A result for this constituent(s) is not available

<sup>&</sup>quot;all ND" - Indicates that all of the constituents in this class were reported by the laboratory as Non-Detect

<sup>&</sup>quot;VOCs" - Volatile Organic Compounds

<sup>&</sup>quot;PAHs" - Polycyclic Aromatic Hydrocarbons

CMB CONSULTING GEOLOGIST

MAY 11 '98 09:19

## **WELL DATA FORM**

Type Well	Type of Data  ☐ Development	Well No. WATER WENT \$5 Sheet 1
☐ Production  M Other <u>ABANDONED</u> WATER W	SS Sampling	of Sheets
A Onial Transcript Vol. 1 Dec	☐ Pump Test ☐ Other	}
1. Project bratter well Samplish	2. Project Location Two / Rosaws STAT	3. Date
Cypiess Engineering Sources	6381 N. MAINST. Rosacli, A	
4. Technician	8820/	7-7-7-7770
CM BANKIA		
7. Method	8.Manufacturer's Designation of Rig	9. Location of Well (Site, Description)
Pumping Surging Air Lift Bailing Other	DSR-1000	WATER WELL #5
	Water Levels	
initial	Final	Final + 24 Hours
Date: 5/6/98 Time: 8/55	Date: 5/6/95 Time: 18:10	Date: Time:
10. Total Depth of Well (from TOC)  360-0	15. Total Depth of Well (from TOC) 360.0	20. Total Depth of Well (from TOC)
11. Water Level (from TOC) 83.79 83.75 10:00 %	16. Water Level (from TOC) 83.70	21. Water Level (from TOC)
12. Water Column Height Nor Dia		22. Size and Type of Eumpor Bailer
13. Well Diameter 2"	0.1743 0.1534 18.5 Well Volumes	Rediffee, 1.8"
10" steel Casing 6"	0,6613 0.5972 1,5007 1.3540 5635 G2	C 35 HII Vet SUB
14. Well Volume (gal) //27 ' 8"	2 5856 · 2 3720 . 19 Purge Volume	50 Sef @ 1901
(s) w.e. helght)	Final Field Analysis	
23. Total Amount of Water 24. Was	If yes	as the Groundwater Sampled Case No , what was the sample number & Date;
Removed 341250 Pumped Yes	No Hyes, source: Sample	ling Personnel? WATER Well For
Gollous	5/47	198 CMBarabill el6:50
27. Final Parameters \$100	o pH NTUs WL Remove	Photo Roll #,
Time Temp F Conduct 16:50 74.8 3.6		
IF PETROLEU	M IS IN THE WELL, DO NOT TAKE PH AND CONDUCT	IVITY PARAMETERS
28. Physical Appearance and Remarks	lear with strong Sulfn	Smell-
29. Purgewater disposal method:	ON Surface-	
X1000	Sampling / Development Parameters WL	ADMIND LIGHTICS
Conductivity Temp F (umhos/cm)	DH NTUE (from TOC)	(gpm) Observations (1)
1889: US 69.8 5.04	7.64 5 83.75	arther 3.0 Class.
Jev1125 74.6 1.20	8.86 25 83.79	naufor The Class.
12:25 66.7 3.36	7.47 45 -84.31	060 to clear
12:25 70.0 3.47	7 7.52 45 84.3/ 1	310 110 0100
14:35 73.7 3.59	7.45 45 84.3/	1960. 110 ckm.
79.30 731 3.4	x 7.47 15 843/ a	26/0.
13:53 13:6 3:7	7 7.39 45 84.31	3260 11.0 Clar.
16.35 14.0 3.63	7.35 <5 84.31	3472 11.0 Clean
(1) Note volume and physical character of		A STATE OF THE STA
A COMPANIE OF THE PROPERTY OF	<b>4</b> . • • • • • • • • • • • • • • • • • • •	A STATE OF THE STA
WL - Water Level from Top of Pyc yas	tom low Die CPG #719	Date 5/7/98
Checked By	w/19 Bans	
Langer's Langer's	<b>维护理学</b>	5056222012 PAGE.02



1410 N. Missouri Ave. Roswell, N.M. 88201 (505) 623-8382

May 7, 1998

George C. Robinson, P.E. CYPRESS ENGINEERING 10235 West Little York Road Suite 256 Houston, Texas 77040

RE: Transwestern's Roswell Compressor Station

Dear George,

Transmitted herewithin are the X Y & Z coordinates of the wells Clayton Barnhill requested. The elevation of the two water wells were shot at the north rim on the steel casing. The elevation for monitoring well 23-D was shot on the north rim of the PVC casing. The elevations were measured to one hundredth of a foot. Horizontal locations are within one tenth of a foot.

The bench mark and coordinate system are the same ones used during the August 1995, September 1996 and August 1997 surveys for D.B. Stephens & Associates, Inc.

DESCRIPTION	NORTHING	EASTING	ELEVATION
BENCH MARK	100.00	-200.00	3613.81
NORTH RIM WELL CASING WELL No. 2	-176.59	-867.06	3615.28
NORTH RIM WELL CASING WELL No. 5	2566.04	-3685.00	3635.39
NORTH RIM WELL CASING MW 23-D	1915.28	393.56	3604.96

I, Todd P. Wagener, New Mexico Registered Professional Surveyor, No. 9242, certify that I conducted and am responsible for this unclassified survey, and that this survey meets the Minimum Standards for Surveying in New Mexico.

Todd P. Wagener NMRPS No. 9242

May 6, 1998
Date of Survey

May 7, 1998
Date of certification



8880 INTERCHANGE DRIVE HOUSTON, TEXAS 77054 PHONE (713) 660-0901

May 26, 1998

Mr. George Robinson CYPRESS ENGINEERING, INC. 10235 W. Little York Rd. #256 Houston, TX 77040

The following report contains analytical results for the sample(s) received at Southern Petroleum Laboratories (SPL) on May 9, 1998. The sample(s) was assigned to Certificate of Analysis No.(s) 9805418 and analyzed for all parameters as listed on the chain of custody.

Sample "Water Well #5" (SPL ID: 9805418-01) was randomly chosen as a Quality Control sample for metals analysis by SW-846 method 6010. The Matrix Spike (MS) and Matrix Spike Duplicate (MSD) recoveries were outside of advisable limits for Calcium (Ca) and Sodium (Na). A Laboratory Control Sample (LCS) was analyzed as a Quality Control check for the analytical batch and all recoveries were within acceptable limits.

Any data flag or quality control exception associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s).

If you have any questions or comments pertaining to this data report, please do not hesitate to contact me. Please reference the above Certificate of Analysis No. during any inquiries.

Again, SPL is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

Southern Petroleum Laboratories

Electa Brown

Client Services Representative



8880 INTERCHANGE DRIVE HOUSTON, TEXAS 77054 PHONE (713) 660-0901

## Southern Petroleum Laboratories, Inc.

Certificate of Analysis Number: 98-05-418

Approved for Release by:

Electa Brown, Client Services Representative

5/21/98

Date:

Greg Grandits
Laboratory Director

Cynthia Schreiner Quality Assurance Officer

The attached analytical data package may not be reproduced except in full without the express written approval of this laboratory.

#r@ific

#### **HOUSTON LABORATORY**

8880 INTERCHANGE DRIVE HOUSTON, TEXAS 77054 PHONE (713) 660-0901

DATE: 05/22/98

r@ificate of Analysis No. H9-9805418-01

Cypress Engineering, Inc. 10235 W. Little York Rd #256

Houston, TX 77040

ATTN: George Robinson

PROJECT NO:

PROJECT: Transwestern Pipeline

SITE: Roswell Station #9

SAMPLED BY: Cypress Engineering

SAMPLE ID: Water Well #5

MATRIX: WATER

**DATE SAMPLED:** 05/07/98 16:50:00

DATE RECEIVED: 05/09/98

				<del></del>
PARAMETER	ANALYTICAL D	ATA RESULTS	DETECTION LIMIT	UNITS
Alkalinity, a Method 310.1 Analyzed by: Date:	*	141	1	mg/L
Chloride Method 325.3 Analyzed by: Date:		680	10	mg/L
Sulfate Method 375.4 Analyzed by: Date:		800	50	mg/L
Total Dissolv Method 160.1 Analyzed by: Date:	*	1900	100	mg/L
Nitrate-Nitri Method 353.3 Analyzed by: Date:	*	1.48	0.05	mg/L
Method 3520C Analyzed by:		05/12/98		

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA \*\*Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.

\*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.

8880 INTERCHANGE DRIVE HOUSTON, TEXAS 77054 PHONE (713) 660-0901

DATE: 05/22/98

reificate of Analysis No. H9-9805418-01

Cypress Engineering, Inc. 10235 W. Little York Rd #256

Houston, TX 77040

ATTN: George Robinson

PROJECT NO:

**SITE:** Roswell Station #9 MATRIX: WATER

> **DATE SAMPLED:** 05/07/98 16:50:00 DATE RECEIVED: 05/09/98

SAMPLED BY: Cypress Engineering

PROJECT: Transwestern Pipeline

SAMPLE ID: Water Well #5

	ANALYTICAL	DATA		
PARAMETER		RESULTS	DETECTION LIMIT	UNITS
Silver, Dissolved Method 6010B *** Analyzed by: JM	00.00.00	ND	0.01	mg/L
Date: 05/22/98 Arsenic, Dissolved	08:08:00	ND	0.1	mq/L
Method 6010B *** Analyzed by: JM Date: 05/22/98	08:08:00	112	0.1	g/ L
Barium, Dissolved Method 6010B *** Analyzed by: JM Date: 05/22/98	08:08:00	0.022	0.005	mg/L
Calcium, Dissolved Method 6010B *** Analyzed by: JM Date: 05/22/98	08:08:00	241	0.1	mg/L
Cadmium, Dissolved Method 6010B *** Analyzed by: JM Date: 05/22/98	08:08:00	ND	0.005	mg/L
Chromium, Dissolved Method 6010B *** Analyzed by: JM Date: 05/22/98	08:08:00	ND	0.01	mg/L

ND - Not detected.

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA \*\*Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.

\*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.

#r@ific

HOUSTON LABORATORY

8880 INTERCHANGE DRIVE HOUSTON, TEXAS 77054 PHONE (713) 660-0901

rtificate of Analysis No. H9-9805418-01

Cypress Engineering, Inc. 10235 W. Little York Rd #256

Houston, TX 77040

ATTN: George Robinson

DATE: 05/22/98

PROJECT: Transwestern Pipeline

**SITE:** Roswell Station #9

SAMPLED BY: Cypress Engineering

SAMPLE ID: Water Well #5

PROJECT NO:

MATRIX: WATER

DATE SAMPLED: 05/07/98 16:50:00

DATE RECEIVED: 05/09/98

	ANALYTICAL	DATA		
PARAMETER		RESULTS	DETECTION LIMIT	UNITS
Copper, Dissolved Method 6010B *** Analyzed by: JM	00.00.00	ND	0.01	mg/L
Date: 05/22/98	08:08:00			
Iron, Dissolved Method 6010B *** Analyzed by: JM		ND	0.02	mg/L
Date: 05/22/98	08:08:00			
Mercury, Dissolved Method 7470 A*** Analyzed by: AG		ND	0.0002	mg/L
Date: 05/15/98	15:23:00			
Potassium, Dissolved Method 6010B *** Analyzed by: JM		2	2	mg/L
Date: 05/22/98	08:08:00			
Magnesium, Dissolved Method 6010B *** Analyzed by: JM		69.4	0.1	mg/L
Date: 05/22/98	08:08:00			
Manganese, Dissolved Method 6010B *** Analyzed by: JM		0.012	0.005	mg/L
Date: 05/22/98	08:08:00			

ND - Not detected.

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA

\*\*Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.

\*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.

J. P. Preific

**HOUSTON LABORATORY** 

8880 INTERCHANGE DRIVE HOUSTON, TEXAS 77054 PHONE (713) 660-0901

reificate of Analysis No. H9-9805418-01

Cypress Engineering, Inc. 10235 W. Little York Rd #256

Houston, TX 77040

ATTN: George Robinson

DATE: 05/22/98

PROJECT: Transwestern Pipeline

**SITE:** Roswell Station #9

SAMPLED BY: Cypress Engineering

SAMPLE ID: Water Well #5

PROJECT NO:

MATRIX: WATER

DATE SAMPLED: 05/07/98 16:50:00

DATE RECEIVED: 05/09/98

		ANALYTICAL	DATA		
PARAMETER			RESULTS	DETECTION LIMIT	UNITS
Sodium, Dissolv Method 6010B Analyzed by: A Date:	*** JM	08:08:00	387		mg/L
Dissolved Metal Method 3005A Analyzed by: S Date: 0	*** SRC	08:30:00	05/11/98		
Lead, Dissolved Method 6010B Analyzed by: Date: 0	* * * JM	08:08:00	ND	0.05	mg/L
Selenium, Disso Method 6010B Analyzed by: Date: 0	* * * JM	08:08:00	ND	0.1	mg/L
Zinc, Dissolved Method 6010B Analyzed by: Date: 0	* * * JM	08:08:00	ND	0.02	mg/L

ND - Not detected.

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA \*\*Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.

\*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.

# ## Pific

## **HOUSTON LABORATORY**

8880 INTERCHANGE DRIVE HOUSTON, TEXAS 77054 PHONE (713) 660-0901

ereificate of Analysis No. H9-9805418-01

Cypress Engineering, Inc. 10235 W. Little York Rd #256 Houston, TX 77040

ATTN: George Robinson

05/22/98

PROJECT: Transwestern Pipeline

SITE: Roswell Station #9

SAMPLED BY: Cypress Engineering

SAMPLE ID: Water Well #5

PROJECT NO:

MATRIX: WATER

DATE SAMPLED: 05/07/98 16:50:00

DATE RECEIVED: 05/09/98

ANALYTIC	CAL DATA		
PARAMETER	RESULTS	PQL*	UNIT
Benzene	ND	5	ug/
Bromobenzene	ND	5	ug/
Bromochloromethane	ND	5	ug/
Bromodichloromethane	ND	5	ug/
Bromoform	ND	5	ug/
Bromomethane	ND	10	ug/
n-Butylbenzene	ND	5	ug/
sec-Butylbenzene	ND	5	ug/
tert-Butylbenzene	ND	5	ug/
Carbon tetrachloride	ND	5	ug/
Chlorobenzene	ND	5	ug/
Chlorodibromomethane	ND	5	ug/
Chloroethane	ND	10	ug/
Chloroform	ND	5	ug/
Chloromethane	ND	10	ug/
2-Chlorotoluene	ND	5	ug/
4-Chlorotoluene	ND	5	ug/
1,2-Dibromo-3-chloropropane	ND	5	ug/
1,2-Dibromoethane	ND	5	ug/
Dibromomethane	ND	5	ug/
1,2-Dichlorobenzene	ND	5	ug/
1,3-Dichlorobenzene	ND	5	ug/
1,4-Dichlorobenzene	ND	5	ug/
Dichlorodifluoromethane	ND	10	ug/
1,1-Dichloroethane	ND	5	ug/
1,2-Dichloroethane	ND	5	ug/
1,1-Dichloroethene	ND	5	ug/
cis-1,2-Dichloroethene	ND	5	ug/
trans-1,2-Dichloroethene	ND	5	ug/
1,2-Dichloropropane	ND	5	ug/
1,3-Dichloropropane	ND	5	ug/
2,2-Dichloropropane	ND	5	ug/
1,1-Dichloropropene	ND	5	ug/
Ethylbenzene	ND	5	ug/
Hexachlorobutadiene	ND	5	ug/
Isopropylbenzene	ND	5	ug/
p-Isopropyltoluene	ND	5	ug/
Methylene chloride	ND	5	ug/

METHOD: 8260 Water, Volatile Organics (continued on next page)

8880 INTERCHANGE DRIVE HOUSTON, TEXAS 77054 PHONE (713) 660-0901

reificate of Analysis No. H9-9805418-01

Cypress Engineering, Inc.

SAMPLE ID: Water Well #5

ANALYT	CAL DATA	(cont	inued)		
PARAMETER	RESULTS	;	PQL*		UNITS
Naphthalene		ND	5		ug/L
n-Propylbenzene		ND	5		ug/L
Styrene		ND	5		ug/L
1,1,1,2-Tetrachloroethane		ND	5		ug/L
1,1,2,2-Tetrachloroethane		ND	5		ug/L
Tetrachloroethene		ND	5		ug/L
Toluene		ND	· 5		ug/L
1,2,3-Trichlorobenzene		ND	5		ug/L
1,2,4-Trichlorobenzene		ND	5		ug/L
1,1,1-Trichloroethane		ND	5		ug/L
1,1,2-Trichloroethane		ND	5		ug/L
Trichloroethene		ND	5		ug/L
Trichlorofluoromethane		ND	5 5		ug/L
1,2,3-Trichloropropane		ND			ug/L
1,2,4-Trimethylbenzene		ND	5		ug/L
1,3,5-Trimethylbenzene		ND	5		ug/L
Vinyl chloride		ND	10		${\tt ug/L}$
Xylenes (total)		ND	5		ug/L
Acetone		ND	100		ug/L
Carbon Disulfide		ND	5		${\tt ug/L}$
Vinyl Acetate		ND	10		ug/L
2-Butanone		ND	20		ug/L
1,2-Dichloroethene (total)		ND	5		ug/L
2-Chloroethylvinylether		ND	10		ug/L
4-Methyl-2-Pentanone		ND	10		${\tt ug/L}$
cis-1,3-Dichloropropene		ND	5		ug/L
trans-1,3-Dichloropropene		ND	5		ug/L
2-Hexanone		ND	10		ug/L
	MOUNT SPIKED	% REC	OVERY!	LOWER LIMIT	UPPER LIMIT
	0 ug/L		98	76	114

SURROGATES	AMOUNT	%	LOWER	UPPER
	SPIKED	RECOVERY	LIMIT	LIMIT
1,2-Dichloroethane-d4	50 ug/L	98	76	114
Toluene-d8	50 ug/L	100	88	110
4-Bromofluorobenzene	50 ug/L	104	86	115

ANALYZED BY: JC DATE/TIME: 05/14/98 15:49:00

METHOD: 8260 Water, Volatile Organics

NOTES: \* - Practical Quantitation Limit ND - Not Detected

NA - Not Analyzed

## COMMENTS:

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.

###

HOUSTON LABORATORY

8880 INTERCHANGE DRIVE HOUSTON, TEXAS 77054 PHONE (713) 660-0901

r@ificate of Analysis No. H9-9805418-01

Cypress Engineering, Inc. 10235 W. Little York Rd #256

Houston, TX 77040 ATTN: George Robinson

05/22/98

PROJECT: Transwestern Pipeline

SITE: Roswell Station #9

SAMPLED BY: Cypress Engineering

SAMPLE ID: Water Well #5

PROJECT NO:

MATRIX: WATER

**DATE SAMPLED:** 05/07/98 16:50:00

DATE RECEIVED: 05/09/98

	ANALYTICAL DATA				
PARAMETER	RESU:	LTS	PQL*		UNITS
Acenaphthene		ND	5		ug/I
Acenaphthylene		ND	5		ug/I
Anthracene		ND	5		ug/I
Benzo(a)Anthracene		ND	5		ug/I
Benzo(b)Fluoranthene		ND	5		ug/I
Benzo(k)Fluoranthene		ND	5		ug/I
Benzo(a)Pyrene		ND	5		ug/I
Benzo(g,h,i)Perylene		ND	5		ug/I
Chrysene		ND	5		ug/I
Dibenz(a,h)Anthracene		ND	5		ug/I
Fluoranthene		ND	5		ug/I
Fluorene		ND	5		ug/I
Indeno(1,2,3-cd)Pyrene		ND	5		ug/I
2-Methylnaphthalene		ND	5		ug/I
Naphthalene		ND	5		ug/I
Phenanthrene		ND	5		ug/I
Pyrene		ND	5		ug/I
1-Methylnaphthalene		ND	5		ug/I
SURROGATES	AMOUNT	%		LOWER	UPPER
	SPIKED	RECOV	<b>VERY</b>	LIMIT	LIMIT
Nitrobenzene-d5	50 ug/L	8	30	35	114
2-Fluorobiphenyl	50 ug/L	10	00	43	116
Terphenyl-d14	50 ug/L	•	72	33	141
Phenol-d5	75 ug/L	2	27	10	110
2-Fluorophenol	75 ug/L	3	39	21	110
2,4,6-Tribromophenol	75 ug/L	9	99	10	123

ANALYZED BY: RY DATE/TIME: 05/13/98 01:17:00 EXTRACTED BY: AS DATE/TIME: 05/12/98 12:00:00

METHOD: 8270C, Semivolatile Organics - Water

NOTES: \* - Practical Quantitation Limit ND - Not Detected

NA - Not Analyzed

#### COMMENTS:

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.

# QUALITY CONTROL DOCUMENTATION

#### 3A WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPL

Contract:

Lab Code:

Case No.: 9805418 SAS No.:

SDG No.:

Matrix Spike - EPA Sample No.: WATER WELL #5

COMPOUND	SPIKE	SAMPLE	MS	MS	QC.
	ADDED	CONCENTRATION	CONCENTRATION	%	LIMITS
	(ug/L)	(ug/L)	(ug/L)	REC #	REC.
1,1-Dichloroethene Trichloroethene Benzene Toluene Chlorobenzene	50 50 50 50 50 50	0 0 0 0 0	62 43 48 42 47	124 86 96 84 94	61-145 71-120 76-127 76-125 75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC L: RPD	MITS REC.
1,1-Dichloroethene Trichloroethene Benzene Toluene Chlorobenzene	50	58	116	7	14	61-145
	50	44	88	2	14	71-120
	50	48	96	0	11	76-127
	50	41	82	2	13	76-125
	50	48	96	2	13	75-130

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits due to matrix interference

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

Data File: /var/chem/n.i/n980514.b/n134tl1.d Report Date: 14-May-1998 09:06

Page 3

## SPL Houston Labs

## RECOVERY REPORT

Client Name:

Sample Matrix: LIQUID Lab Smp Id: LCS Level: LOW

Data Type: MS DATA Sample SpikeList File: 8260\_water.spk Quant Sublist File: 8260.sub
Method File: /var/chem/n.i/n980514.b/n8260w.m
Misc Info: N134W1//N134CW1

Client SDG: n980514

Fraction: VOA

Operator: JC SampleType: LCS Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
8 1,1-Dichloroethene	50	67	134.00	61-145
29 Trichloroethene	50	51	102.00	71-120
25 Benzene	50	52	104.00	76-127
37 Toluene	50	47	94.00	76-125
45 Chlorobenzene	50	52	104.00	75-130

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 21 1,2-Dichloroethane	50	45	90.00	76-114
\$ 36 Toluene-d8	50	47	94.00	88-110
\$ 56 Bromofluorobenzene	50	52	104.00	86-115





## SPL Blank QC Report

**HOUSTON LABORATORY** 8880 INTERCHANGE DRIVE HOUSTON, TEXAS 77054 PHONE (713) 46020902

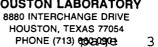
Reported on: 05/15/98 14:59 Analyzed on: 05/14/98 08:36 Analyst: JC Matrix: Aqueous Sample ID: VLBLK
Batch: N980514122720

## METHOD 8260/8240 N134B01

Compound	Result	Detection Limit	Units
Dichlorodifluoromethane	ND	10	ug/L
Chloromethane	ND	10	ug/L
Vinyl Chloride	ND	10	ug/L
Bromomethane	ND	10	ug/L
Chloroethane	ND	10	ug/L
Trichlorofluoromethane	ND	5	ug/L
Acetone	ND	100	ug/L
1,1-Dichloroethene	ND	5	ug/L
Methylene Chloride	ND	5	ug/L
Carbon Disulfide	ND	5	ug/L
trans-1,2-Dichloroethene	ND	5	ug/L
1,1-Dichloroethane	ND	5	ug/L
Vinyl Acetate	ND	10	ug/L
2-Butanone	ND	20	ug/L
cis-1,2-Dichloroethene	ND	5	ug/L
1,2-Dichloroethene (total)	ND	5 5	ug/L
2,2-Dichloropropane	ND	5	ug/L
Bromochloromethane	ND	5	ug/L
Chloroform	ND	5	ug/L
1,1,1-Trichloroethane	ND	5	ug/L
1,2-Dichloroethane	ND	5	ug/L
1,1-Dichloropropene	ND	5	ug/L
Benzene	ND	5	ug/L
Carbon Tetrachloride	ND	5	ug/L
1,2-Dichloropropane	ND	5 5 5	ug/L
Trichloroethene	ND	5	ug/L
Dibromomethane	ND	5	ug/L
Bromodichloromethane	ND	5	ug/L
2-Chloroethylvinylether	ND	10	ug/L
4-Methyl-2-Pentanone	ND	10	ug/L
cis-1,3-Dichloropropene	ND	5	ug/L
trans-1,3-Dichloropropene	ND	5	ug/L
Toluene	ND	5	ug/L
1,1,2-Trichloroethane	ND	5	ug/L∥

<u>Notes</u>

ND - Not detected.



## HOUSTON LABORATORY PHONE (713) 46020901



SPL Blank QC Report

Matrix: Aqueous Sample ID: VLBLK Batch: N980514122720 Reported on: 05/15/98 14:59 Analyzed on: 05/14/98 08:36 Analyst: JC

## METHOD 8260/8240 N134B01

Compound	Result	Detection Limit	Units
1,3-Dichloropropane	ND	5	ug/L
2-Hexanone	ND	10	ug/L
Dibromochloromethane	ND	5	ug/L
1,2-Dibromoethane	ND	5	ug/L
Tetrachloroethene	ND	5	ug/L
Chlorobenzene	ND	555555555555555555555555555555555555555	ug/L
1,1,1,2-Tetrachloroethane	ND	5	ug/L
Ethylbenzene	ND	5	ug/L
Bromoform	ND	5	ug/L
Styrene	ND	5	ug/L
Xylene (Total)	ND	5	ug/L
1,1,2,2-Tetrachloroethane	ND	5	ug/L
1,2,3-Trichloropropane	ND	5	ug/L
Isopropylbenzene	ND	5	ug/L
Bromobenzene	ND	5	ug/L
N-Propylbenzene	ND	5	ug/L
2-Chlorotoluene	ND	5	ug/L
4-Chlorotoluene	ND	5	ug/L
1,3,5-Trimethylbenzene	ND	5 5 5	ug/L
tert-Butylbenzene	ND ND	5	ug/L
1,2,4-Trimethylbenzene	ND	5	ug/L
1,3-Dichlorobenzene	ND	5	ug/L
sec-Butylbenzene	ND	5	ug/L
1,4-Dichlorobenzene	ND	5	ug/L
p-Isopropyltoluene	ND	5	ug/L
1,2-Dichlorobenzene	ND	5	ug/L
n-Butylbenzene	ND	5	ug/L
1,2-Dibromo-3-Chloropropan	ND	5	ug/L
1,2,4-Trichlorobenzene	ND	5	ug/L
Naphthalene	ND	5	ug/L
Hexachlorobutadiene	ND	5	ug/L
1,2,3-Trichlorobenzene	ND	5	ug/L

## <u>Notes</u>

ND - Not detected.



## SPL Blank QC Report

**HOUSTON LABORATORY** 

8880 INTERCHANGE DRIVE HOUSTON, TEXAS 77054 PHONE (713) 66609002

Matrix: Aqueous Sample ID: VLBLK

Batch: N980514122720

Reported on: 05/15/98 14:59 Analyzed on: 05/14/98 08:36 Analyst: JC

METHOD 8260/8240 N134B01

Surrogate	Result	QC Criteria	Units
1,2-Dichloroethane-d4	104	88-110	% Recovery
Toluene-d8	102		% Recovery
Bromofluorobenzene	104		% Recovery

Samples in Batch 9805418-01

Notes

ND - Not detected.

## 3C WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPL

Contract:

Lab Code:

Case No.: 980512 SAS No.:

SDG No.:

Matrix Spike - EPA Sample No.: Blank Spike/Spike-Dup

	SPIKE	SAMPLE	MS	MS	QC.
	ADDED	CONCENTRATION		%	LIMITS
COMPOUND	(ug/L)	(ug/L)	(ug/L)	REC #	REC.
	=======	=========	==========	=====	=====
Phenol	75	0	27	36	12-110
2-Chlorophenol	75	0	57	76	27-123
1,4-Dichlorobenzene	50	0	37	74	36- 97
N-Nitroso-di-n-prop.(1)	50	0	43	86	41-116
1,2,4-Trichlorobenzene	50	0	39	78	39- 98
4-Chloro-3-methylphenol	75	0	58	77	23- 97
Acenaphthene	50	0	41	82	46-118
4-Nitrophenol	75	0	26	35	30-150
2,4-Dinitrotoluene	50	0	43	86	50-150
Pentachlorophenol	75	0	56	75	9-125
Pyrene	50	0	42	84	26-127
					l

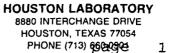
COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC L: RPD	IMITS   REC.
		(ug/ 11/		KID #		
Phenol	75	26	35	3	42	12-110
2-Chlorophenol	75	55	73	4	40	27-123
1,4-Dichlorobenzene	50	34	68	8	28	36- 97
N-Nitroso-di-n-prop.(1)	50	38	76	12	38	41-116
1,2,4-Trichlorobenzene	50	38	76	3	28	39- 98
4-Chloro-3-methylphenol	75	55	73	5	42	23- 97
Acenaphthene	50	38	76	8	31	46-118
4-Nitrophenol	75	23	31	12	50	30-150
2,4-Dinitrotoluene	50	40	80	7	50	50-150
Pentachlorophenol	75	53	71	5	50	9-125
Pyrene	50	36	72	15	31	26-127
						l

<sup>(1)</sup> N-Nitroso-di-n-propylamine

RPD: 0 out of 11 outside limits

Spike Recovery: 0 out of 22 outside limits

<sup>\*</sup> Values outside of QC limits due to diluted out



## SPL Blank QC Report

Matrix: Aqueous Sample ID: BLANK Batch: E980512042258 Reported on: 05/15/98 11:15 Analyzed on: 05/13/98 15:20 Analyst: RY

## METHOD 8270 J132B03

Compound	Result	Detection Limit	Units
Naphthalene 2-Methylnaphthalene	ND ND	5	ug/L ug/L
1-Methylnaphthalene	ND	5	ug/L
Acenaphthylene	ND	5	ug/L
Acenaphthene	ND	5	ug/L
Fluorene	ND	5	ug/L
Phenanthrene	ND	5	ug/L
Anthracene	ND	5	ug/L
Fluoranthene	ND	5	ug/L
Pyrene	ND	5	ug/L
Benzo[a]anthracene	ND	5	ug/L
Chrysene	ND	5	ug/L
Benzo[b] fluoranthene	ND	5	ug/L
Benzo[k] fluoranthene	ND	5	ug/L
Benzo[a] pyrene	ND	5	ug/L
Indeno[1,2,3-cd]pyrene	ND	5	ug/L
Dibenz[a,h]anthracene Benzo[g,h,i]perylene	ND ND	5 5	ug/L ug/L

Surrogate	Result	QC Criteria	Units
Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14 Phenol-d5 2-Fluorophenol 2,4,6-Tribromophenol	74 88 76 37 47 84	43-116 33-141 10-110 21-110	% Recovery % Recovery % Recovery % Recovery % Recovery

Samples in Batch 9805418-01

Notes
ND - Not detected.

## ICP Spect copy Method 6010 Quality Contracted Report



Matrix: DISSOLVED

Units: mg/L

Analyst: JM

HOUSTON LABORATORY

8880 INTERCHANGE DRIVE

Checked ON TEXAS 77054 PHONE (7713) 660-090

Date:052298 Time:0808 File Name: 052298C2

Y19/12/6 mg

# Work Order Fractions

98-05-418 01E

Laboratory Control Sample							
Element	Mth. Blank	True Value	Result	% Recovery	Lower Limit	<b>Upper Limit</b>	
Silver	ND	2.00	2.03	101	1.60	2.40	
Aluminum							
Arsenic	ND	4.00	4.03	101	3.20	4.80	
Barium	ND	2.00	1.99	99	1.60	2.40	
Beryllium							
Calcium	ND	20.00	20.03	100	16.00	24.00	
Cadmium	ND	2.00	1.96	98	1.60	2.40	
Cobalt							
Chromium	ND	2.00	2.00	100	1.60	2.40	
Copper	ND	2.00	2.03	101	1.60	2.40	
Iron	ND	2.00	1.99	100	1.60	2.40	
Potassium	ND	20.00	19.92	100	16.00	24.00	
Magnesium	ND	20.00	20.30	102	16.00	24.00	
Manganese	ND	2.00	2.02	101	1.60	2.40	
Sodium	ND	20.00	19.36	97	16.00	24.00	
Nickel							
Lead	ND	2.00	2.03	102	1.60	2.40	
Antimony							
Selenium	ND	4.00	4.02	101	3.20	4.80	
Thailium							
Vanadium							
Zinc	ND	2.00	2.03	101	1.60	2.40	

Matrix Spike - Spike Duplicate Results

Work Order Spiked: 9805418-01E

Matrix Spike - Spike Duplicate Results					_	Work Order Spiked, 3003416-01E							
	Sample	Spike	Matr	ix Spike		Matrix Spi	ke Duplicate		QCL	imits	Spike		QC
Element	Result	Added	Result	Recovery	/	Result	Recovery		% Rec	overy	RPD %		Limits %
Silver	0.0035	1.0	0.9227	91.9		0.8608	85.7		80	120	7.0	Τ	20.0
Aluminum								Γ	l			Т	
Arsenic	ND	2.0	2.039	102.0	П	2.044	102.2	Γ	80	120	0.2	Т	20.0
Barium	0.0219	1.0	0.9695	94.8		0.9602	93.8	Π	80	120	1.0	T	20.0
Beryllium_								Γ				Ŧ	
Calcium	240.6	10.0	243.9	33.0	*	246.7	61.0	*	80	120	59.6	**	20.0
Cadmium	ND	1.0	0.9791	97.9		0.9903	99.0	Γ	80	120	1.1	Т	20.0
Cobalt								Г				Т	
Chromium	ND	1.0	0.9626	96,3		0.9725	97.3	T	80	120	1.0	Т	20.0
Copper	ND	1.0	0.9919	99.2		0.9855	98.6	Γ	80	120	0.6	Т	20.0
íron	ND	1.0	0.9761	97.6		0.9816	98.2		80	120	0.6	Т	20.0
Potassium	2.066	10.0	13.1	110.3		13.2	111.3		80	120	0.9	Τ	20.0
Magnesium	69.4	10.0	77.48	80.8		77.49	80.9		80	120	0.1	Т	20.0
Manganese	0.012	1.0	0.9822	97.0		0.9889	97.7	I	80	120	0.7	1	20.0
Sodium	387	10.0	392.6	56.0	*	389.2	22.0	*	80	120	87.2	**	20.0
Nickel												T	
Lead	ND	1.0	1.002	100.2		1.019	101.9		80	120	1.7	T	20.0
Antimony												T	
Selenium	ND	2.0	2.036	101.8		2.027	101.4		80	120	0.4		20.0
Thallium													
Vanadium												$\prod$	
Zinc	ND	1.0	1.019	101.9		1.027	102.7		80	120	0.8	$oldsymbol{\mathbb{T}}$	20.0

<sup>\*</sup> Values Outside QC Range Due To Matrix Interference.

<sup>\*\*</sup> Values Outside QC Range. Elements Bench Spiked:ALL



8880 INTERCHANGE DRIVE HOUSTON, TEXAS 77054 PHONE (713) 660-0901

SPL QUALITY CONTROL REPORT \*\*

Matrix:

Aqueous

Reported on: 05/15/98 Analyzed on: 05/15/98

Analyst:

AG

This sample was randomly selected for use in the SPL quality control program. Samples chosen are fortified with a known concentration in duplicate. The results are as follows:

Mercury, Dissolved Method 7470 A\*\*\*

SPL Sample ID Number	Blank Value ug/L	LCS Concentration ug/L	Measured Concentration ug/L	% Recovery	QC Limits Recovery
LCS	ND	2.00	1.93	96.5	80 - 120

-9805535

Samples in batch:

9805418-01E

9805567-01B

9805567-02B

9805567-03B

COMMENTS:

LCS = SPL ID# 94-452-45-21



\*\* SPL QUALITY CONTROL REPORT \*\*

**HOUSTON LABORATORY** 

8880 INTERCHANGE DRIVE HOUSTON, TEXAS 77054 PHONE (713) 660-0901

Matrix:

Aqueous

Reported on: 05/15/98 Analyzed on: 05/15/98

Analyst:

AG

This sample was randomly selected for use in the SPL quality control program. Samples chosen are fortified with a known concentration in duplicate. The results are as follows:

Mercury, Dissolved Method 7470 A\*\*\*

SPL Sample	Method	Sample	Spike	Matrix Spike		Matrix Spike Duplicate		RPD	QC LIMITS (Advisory)		
ID Number	:	:	: .	Result	Recovery	Result	Recovery	(%)	RPD Max		% REC
9805418-01E	ND	ND	2.00	1.91	95.5	1.83	91.5	4.3	20	75	-125

-9805535

Samples in batch:

9805418-01E

9805567-01B

9805567-02B

9805567-03B

COMMENTS:

LCS = SPL ID# 94-452-45-21



8880 INTERCHANGE DRIVE HOUSTON, TEXAS 77054 PHONE (713) 660-0901

## SPL QUALITY CONTROL REPORT \*\*

Matrix:

Aqueous

Reported on:

05/20/98

Analyzed on:

05/20/98

Analyst:

JS

This sample was randomly selected for use in the SPL quality control program. Samples chosen are fortified with a known concentration in duplicate. The results are as follows:

Alkalinity, as CaCO3 Method 310.1 \*

SPL Sample ID Number	Blank Value mg/L	LCS Concentration mg/L	Measured Concentration mg/L	% Recovery		Limits covery
LCS	ND	65	65	100	95	- 113

-9805688

## Samples in batch:

9805418-01B	9805543-01D	9805543-02D	9805543-03D
9805543-04D	9805543-05D	9805544-02G	9805544-04G
9805544-05G	9805621-02C		

COMMENTS:

LCS#94453192-24



8880 INTERCHANGE DRIVE HOUSTON, TEXAS 77054 PHONE (713) 660-0901

SPL QUALITY CONTROL REPORT \*\*

Matrix:

Aqueous

Reported on:

05/20/98

Analyzed on:

05/20/98

Analyst:

JS

This sample was randomly selected for use in the SPL quality control program. The results are as follows:

Alkalinity, as CaCO3 Method 310.1 \*

## -- DUPLICATE ANALYSIS --

SPL Sample ID	Original Sample Concentration mg/L	Duplicate Sample mg/L	RPD	RPD Max.
9805418-01B	141	142	0.7	18

-9805687

## Samples in batch:

9805418-01B	9805543-01D	9805543-02D	9805543-03D
9805543-04D	9805543-05D	9805544-02G	9805544-04G
9805544-05G	9805621-02C		

COMMENTS:



8880 INTERCHANGE DRIVE HOUSTON, TEXAS 77054 PHONE (713) 660-0901

## SPL QUALITY CONTROL REPORT \*\*

Matrix:

Aqueous

Reported on:

05/19/98

Analyzed on: 05/19/98 Analyst:

ET

This sample was randomly selected for use in the SPL quality control program. Samples chosen are fortified with a known concentration in duplicate. The results are as follows:

Chloride Method 325.3 \*

SPL Sample ID Number	Blank Value mg/L		Measured Concentration mg/L	% Recovery	QC Limits Recovery
LCS	ND	170	169.27	99.6	94 ~ 106

-9805652

## Samples in batch:

9805418-01B	9805543-01D	9805543-02D	9805543-03D
9805543-04D	9805543-05D	9805550-03A	9805551-03A

9805785-01A

9805829-01A

## COMMENTS:

LCS = SPL ID#94453192-24



\* SPL QUALITY CONTROL REPORT \*\*

**HOUSTON LABORATORY** 

8880 INTERCHANGE DRIVE HOUSTON, TEXAS 77054 PHONE (713) 660-0901

Matrix: Aqueous

Reported on: 05/19/98 Analyzed on: 05/19/98 Analyst: ET

This sample was randomly selected for use in the SPL quality control program. Samples chosen are fortified with a known concentration in duplicate. The results are as follows:

## Chloride Method 325.3 \*

   SPL Sample	    Method	Sample	Spike	Matr:	ix Spike	!	ix Spike   licate	RPD	!	QC LI Advis	- '
ID Number	:		Added mg/L	Result mg/L	_	Result mg/L	Recovery	(%)	RPD Max	<b>8</b>	REC
9805829-01A	ND	36.16	50.00	86.85	101	86.50	101	0	5	92	-109

-9805640

#### Samples in batch:

9805418-01B 9805543-01D 9805543-02D 9805543-03D 9805543-04D 9805543-05D 9805550-03A 9805551-03A 9805785-01A 9805829-01A

COMMENTS:



8880 INTERCHANGE DRIVE HOUSTON, TEXAS 77054 PHONE (713) 660-0901

## SPL QUALITY CONTROL REPORT \*\*

Matrix:

Aqueous

Reported on:

05/18/98

Analyzed on:

05/18/98

Analyst:

DAM

This sample was randomly selected for use in the SPL quality control program. Samples chosen are fortified with a known concentration in duplicate. The results are as follows:

Sulfate Method 375.4 \*

SPL Sample ID Number	Blank Value mg/L	LCS Concentration mg/L	Measured Concentration mg/L	% Recovery	QC Limits Recovery
LCS	ND	9.14	9.32	102	82 - 111

-9805603

## Samples in batch:

9805274-01H	9805274-02H	9805274-03H	9805274-04H
9805274-05H	9805274-06H	9805408-01F	9805408-02F
9805418-01B	9805478-02A		

## COMMENTS:

LCS = SPL ID#:94453192-24



\*\* SPL QUALITY CONTROL REPORT \*\*

**HOUSTON LABORATORY** 

8880 INTERCHANGE DRIVE HOUSTON, TEXAS 77054 PHONE (713) 660-0901

Matrix:

Aqueous

Reported on: 05/18/98 Analyzed on: 05/18/98

Analyst:

DAM

This sample was randomly selected for use in the SPL quality control program. Samples chosen are fortified with a known concentration in duplicate. The results are as follows:

Sulfate Method 375.4 \*

SPL Sample	Method	Sample	Spike	Matrix Spike		Matrix Spike Duplicate		RPD	QC LIMITS (Advisory)		
ID Number	:	Result		Result	•	Result	Recovery	(%)	RPD Max	1	REC
9805274-01H	ND	ND	10.0	9.61	96.1	9.79	97.9	1.9	9.5	84	-120

-9805602

#### Samples in batch:

 9805274-01H
 9805274-02H
 9805274-03H
 9805274-04H

 9805274-05H
 9805274-06H
 9805408-01F
 9805408-02F

 9805418-01B
 9805478-02A

COMMENTS:



8880 INTERCHANGE DRIVE HOUSTON, TEXAS 77054 PHONE (713) 660-0901

## SPL QUALITY CONTROL REPORT \*\*

Matrix:

Aqueous

Reported on:

05/14/98

Analyzed on:

05/13/98

Analyst:

KS

This sample was randomly selected for use in the SPL quality control program. Samples chosen are fortified with a known concentration in duplicate. The results are as follows:

Total Dissolved Solids Method 160.1 \*

SPL Sample ID Number	Blank Value mg/L	LCS Concentration mg/L	Measured Concentration mg/L	% Recovery	QC Limits Recovery
LCS	ND	293.2	289	98.6	93 - 107

-9805514

Samples in batch:

9805418-01B

9805545-01F

COMMENTS:

SPL LCS ID# 95535192-17



8880 INTERCHANGE DRIVE HOUSTON, TEXAS 77054 PHONE (713) 660-0901

SPL QUALITY CONTROL REPORT \*\*

Matrix:

Aqueous

Reported on: Analyzed on:

05/14/98

05/13/98

Analyst:

KS

This sample was randomly selected for use in the SPL quality control program. The results are as follows:

Total Dissolved Solids Method 160.1 \*

-- DUPLICATE ANALYSIS --

SPL Sample ID	Original Sample Concentration mg/L	Duplicate Sample mg/L	RPD	RPD Max.
9805418-01B	1860	1940	4.2	5

-9805513

Samples in batch:

9805418-01B

9805545-01F

COMMENTS:



8880 INTERCHANGE DRIVE HOUSTON, TEXAS 77054 PHONE (713) 660-0901

## SPL QUALITY CONTROL REPORT \*\*

Matrix:

Aqueous

Reported on:

05/11/98

Analyzed on:

05/11/98

Analyst:

EM

This sample was randomly selected for use in the SPL quality control program. Samples chosen are fortified with a known concentration in duplicate. The results are as follows:

Nitrate-Nitrite, as N Method 353.3 \*

SPL Sample ID Number	Blank Value mg/L	LCS Concentration mg/L	Measured Concentration mg/L	. % Recovery		Limits covery
LCS	ND	1.00	0.94	94.0	92	- 111

-9805360

Samples in batch:

9805234-01B

9805234-02B

9805418-01C

COMMENTS:

SPL LCS#: 94453190-18



SPL QUALITY CONTROL REPORT \*\*

**HOUSTON LABORATORY** 

8880 INTERCHANGE DRIVE HOUSTON, TEXAS 77054 PHONE (713) 660-0901

Aqueous

Reported on: 05/11/98 Analyzed on: 05/11/98 EM

Analyst:

This sample was randomly selected for use in the SPL quality control program. Samples chosen are fortified with a known concentration in duplicate. The results are as follows:

> Nitrate-Nitrite, as N Method 353.3 \*

   SPL Sample	    Method	Sample	  Spike	Matr:	ix Spike	•	ix Spike licate	RPD	!	QC LI Advis	
ID Number	:		Added  mg/L	Result mg/L	-	Result mg/L	Recovery	(%)	RPD Max	}   	REC
9805234-01B	ND	1.06	5.00	5.99	98.6	5.94	97.6	1.0	12	87	-120

-9805359

Samples in batch:

9805234-01B

9805234-02B

9805418-01C

COMMENTS:

# CHAIN OF CUSTODY AND SAMPLE RECEIPT CHECKLIST

1501 E Ornardhama Avanua Bullottan CA 07621 MAY 147-6868



## STATE OF NEW MEXICO

## ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

## OIL CONSERVATION DIVISION

2040 S. PACHECO SANTA FE, NEW MEXICO 87505 (505) 827-7131

June 3, 1998

# CERTIFIED MAIL RETURN RECEIPT NO. Z-235-437-279

Mr. Bill Kendrick
Transwestern Pipeline Company
P.O. Box 1188
Houston, Texas 77251-1188

RE: INVESTIGATION WORK PLAN
ROSWELL COMPRESSOR STATION

Dear Mr. Kendrick:

The New Mexico Oil Conservation Division has reviewed Transwestern Pipeline Company's (TPC) March 28, 1998 "ANNUAL GROUND WATER MONITORING REPORT & PHASE IV SOIL AND GROUND WATER ASSESSMENT PLAN, ROSWELL COMPRESSOR STATION, TRANSWESTERN PIPELINE COMPANY". This document contains the results of TPC's ground water monitoring and TPC's work plan for additional investigations of the extent of soil and ground contamination related to the TPC Roswell Compressor Station.

The work plan as contained in the above referenced document is approved with the following conditions:

- 1. The proposed deep monitor well MW-25D will be installed at the location as shown on the attached figure.
- 2. The investigation report will be submitted to the OCD Santa Fe Office by September 18, 1998 with a copy provided to the OCD Artesia District Office.

Please be advised that OCD approval does not relieve TPC of liability if the investigation work plan fails to adequately determine the extent of contamination related to TPC's activities. In addition, OCD approval does not relieve TPC of responsibility for compliance with any other federal, state or local laws and regulations.

Mr. Bill Kendrick June 3, 1998 Page 2

If you have any questions, please contact me at (505) 827-7154.

Sincerely,

William C. Olson Hydrologist

Environmental Bureau

xc:

Tim Gum, OCD Artesia Office

Mike Matush, NM State Land Office

George Robinson, Cypress Engineering Services, Inc.

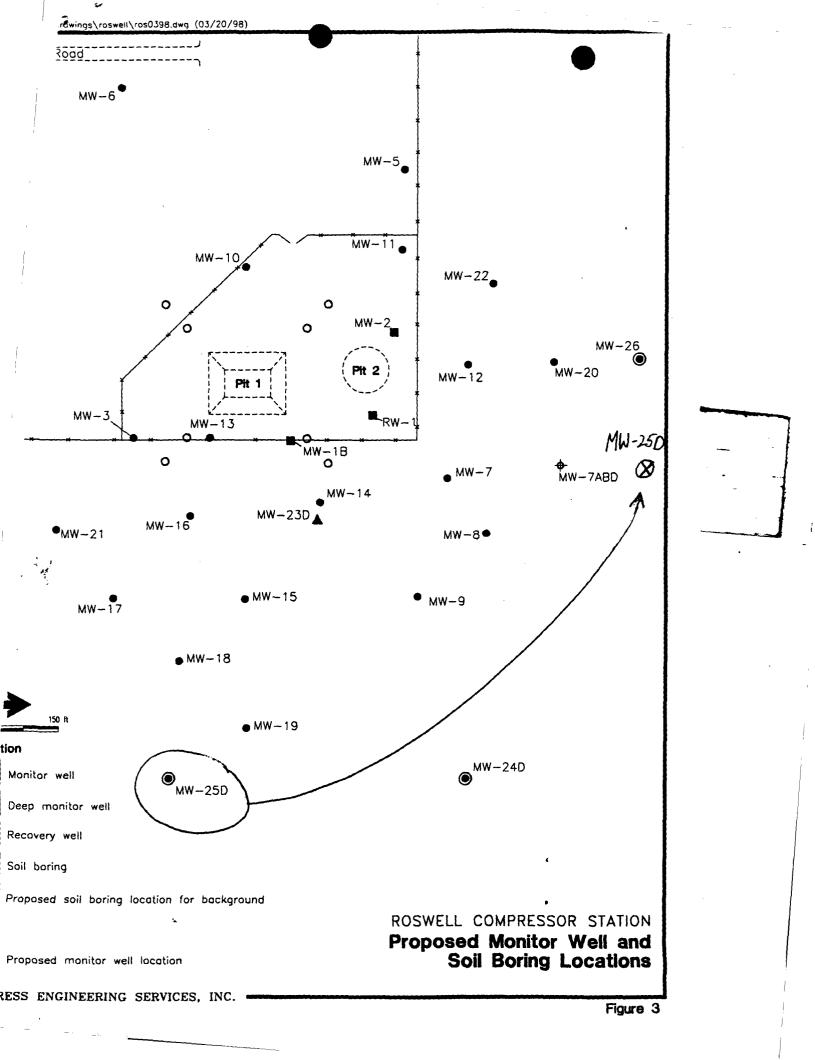
Benito Garcia, NMED Hazardous & Radioactive Materials Bureau

Z 235 437 279

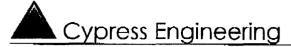
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10235 West Little York Road, Suite 256 Houston, Texas 77040

(713) 856-7980 office (713) 856-7981 fax

George C. Robinson, P.E.

c/o: ENRON Operations Corp. Environmental Affairs Dept. P.O. Box 1188, Room 3AC-3142 Houston, TX 77251-1188 (713) 646-7327 ENRON office (713) 646-7867 ENRON fax

# **FAX Transmission**

To:

Bill Olson

Fax:

505-827-8177

From:

George C. Robinson

Date:

May 12, 1998

Comments:

Pages:

(including this cover)

Bill,

Last week we measured the depth to water in the three nearest regional aquifer wells and surveyed the top of casings in order to produce the attached diagram. After you have had a chance to review this, I would like to discuss the possibility of eliminating the proposed deep monitor wells from our most recent work plan. I'll try to contact you tomorrow on this matter.

Thanks,

George

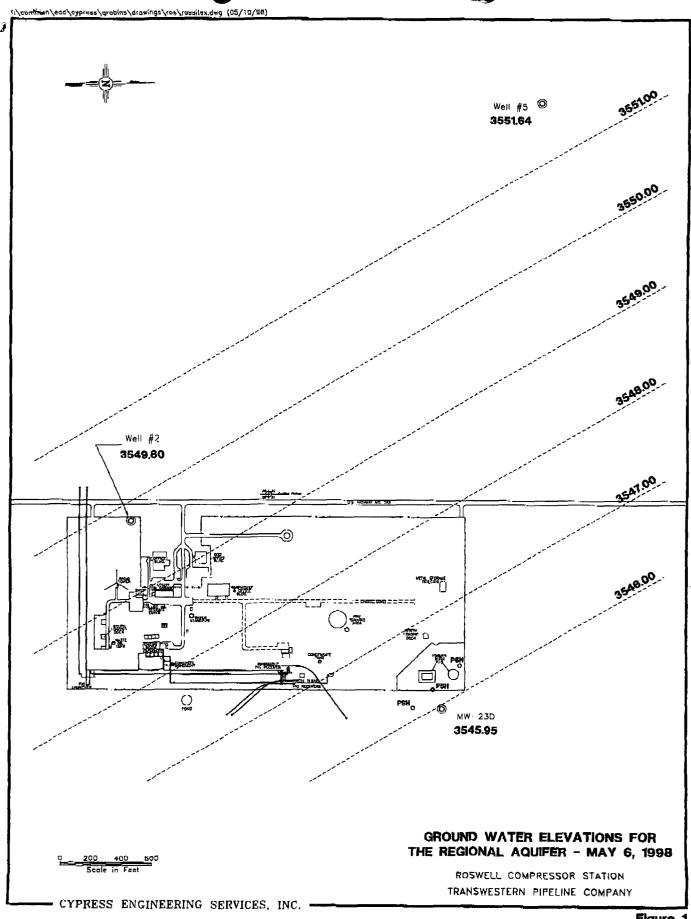


Figure 1

# Transwestern **Pipeline Company**

P. O. Box 1188 Houston, Texas 77251-1188 (713) 853-6161

March 28, 1998

Mr. William C. Olson Environmental Bureau New Mexico Oil Conservation Division 2040 S. Pacheco St. Santa Fe, New Mexico 87505

Annual Ground Water Monitoring Report & Phase IV Soil and Ground Water Assessment Plan Roswell Compressor Station Transwestern Pipeline Company

Dear Bill,

Enclosed for your review and approval is the Annual Ground Water Monitoring Report and Phase IV Soil and Ground Water Assessment Plan for the subject facility.

The content of the Phase IV plan, in general, is identical to the Phase III soil and ground water assessment plan which was reviewed and approved by your office last year. Changes have been made to incorporate comments by your office as prescribed in your correspondence related to the subject facility dated April 17, 1997, and February 24, 1998. More specifically, the key elements of the Phase IV plan include the following:

- Installation of two additional monitor wells within the uppermost aquifer
- Installation of two additional monitor wells within the deeper regional aquifer
- Collection of soil samples from the immediate pit area for treatability studies [Note: this has been modified slightly from the previous plan to include collection of samples using a split spoon sampler rather than a backhoe.]
- Collection of 16 soil samples for determination of background metal concentrations [Note: this has been modified slightly from the previous plan to incorporate the OCD's comment regarding sample locations and has been modified to include analysis for 19 metal constituents rather than 14]

If you have any questions or comments regarding this report and work plan, please contact me at (713) 646-7644 or George Robinson at (713) 646-7327.

Sincerely,

Bill Kendrick

Manager, Environmental Affairs

gcr/BK

c w/attachment: Jerry Bober

NMED HRMB

Benito Garcia

NMED HRMB

Robert Young

NM State Land Office

Larry Campbell

I Kendrich

Transwestern

George Robinson

Cypress Engineering

## STATE OF NEW MEXICO



## ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

## OIL CONSERVATION DIVISION

2040 S. PACHECO SANTA FE, NEW MEXICO 87505 (505) 827-7131

February 24, 1998

# CERTIFIED MAIL RETURN RECEIPT NO. Z-235-437-236

Mr. Bill Kendrick
ENRON Gas Pipeline Group
P.O. Box 1188
Houston, Texas 77251-1188

RE:

INVESTIGATION DERIVED WASTES

ROSWELL COMPRESSOR STATION

Dear Mr. Kendrick:

The New Mexico Oil Conservation Division has reviewed ENRON Gas Pipeline Group's (ENRON) October 14, 1997 "FINAL DISPOSITION OF INVESTIGATION DERIVED WASTES (IDW), ROSWELL COMPRESSOR STATION, TRANSWESTERN PIPELINE COMPANY". This document contains ENRON's requesting approval of onsite disposal of ground water investigation derived wastes at the ENRON Roswell Compressor Station.

The OCD approves of the request for purge water wastes generated from monitor wells MW-23D and the combined purge water from monitor wells MW-7, 8, 10, 14, 15, 17 and 19.

The request for onsite disposal of soil cuttings is **denied** because background metals soil concentrations at the site have not yet been determined.

Please be advised that OCD approval does not relieve ENRON of liability if their disposal actions pose a future threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve ENRON of responsibility for compliance with any other federal, state or local laws and regulations.

If you have any questions, please contact me at (505) 827-7154.

Sincerely

William C. Olson Hydrogeologist

Environmental Bureau

xc:

Tim Gum, OCD Artesia Office

Mike Matush, NM State Land Office

George Robinson, Cypress Engineering Services, Inc.

Benito Garcia, NMED Hazardous & Radioactive Materials Bureau





## ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

#### OIL CONSERVATION DIVISION

2040 S. PACHECO SANTA FE. NEW MEXICO 87505 (505) 827-7131

February 24, 1998

# CERTIFIED MAIL RETURN RECEIPT NO. Z-235-437-236

Mr. Bill Kendrick
ENRON Gas Pipeline Group
P.O. Box 1188
Houston, Texas 77251-1188

RE: GROUND WATER ASSESSMENT ROSWELL COMPRESSOR STATION

Dear Mr. Kendrick:

The New Mexico Oil Conservation Division has reviewed ENRON Gas Pipeline Group's (ENRON) October 14, 1997 "PHASE III SOIL AND GROUND WATER ASSESSMENT REPORT, ROSWELL COMPRESSOR STATION, TRANSWESTERN PIPELINE COMPANY". This document contains the results of ENRON's recent investigations of the extent of contamination related to the ENRON Roswell Compressor Station.

The OCD has the following comments on the above referenced report:

## 1. Section 3.2, Page 9

The statement that the soil metals concentrations are within background concentrations cannot be evaluated since ENRON to date has not taken any background soil samples.

## 2. <u>Section 3.3.2, Page 11</u>

- a. The extent of ground water contamination in the vicinity of MW-20 and MW-21 has not been completed.
- b. The extent of halogenated organic compounds is not entirely represented by areas with measurable concentrations of 1,1,1-TCA. Monitor wells MW-20 and MW-13 contain 1,2-DCA in concentrations in excess of New Mexico Water Quality Control Commission (WQCC) standards. These wells are not within the estimated extent of 1,1,1-TCA as shown on figure 6. The estimated extent of halogenated organic compounds needs to include these areas.

Mr. Bill Kendrick February 24, 1998 Page 2

c. The statement that all metals detected were below WQCC standards is not correct. Monitor well MW-1 contains arsenic and barium in excess of WQCC standards and monitor wells MW-18, MW-20 and MW-22 contain iron in excess of WQCC standards.

## 3. Section 4, Page 12

This section only lists benzene, toluene, ethylbenzene, xylene, 1,1,1-TCA and 1,1-DCA as primary target compounds. However, ground water at the site also contains napthalene, 1,2-DCA, 1,1-DCE, arsenic, barium, iron, chloride and total dissolved solids in excess of WQCC standards. These constituents will also need to be addressed in future investigative reports and remedial action plans.

4. It is difficult for the OCD to evaluate vertical water quality impacts with only one deep well since it has not been determined whether monitor well MW-23D is actually downgradient of the upper contaminated zone.

In order to address the OCD's above comments, the OCD requires that ENRON submit a work plan to complete the definition of the lateral and vertical extent of contamination and to determine background metals concentrations at the site. The plan will be submitted to the OCD Santa Fe Office by April 24, 1998 with a copy provided to the OCD Artesia Office. Once all investigative activities have been completed the OCD will require that a final comprehensive site investigation report be compiled and submitted for approval.

If you have any questions, please contact me at (505) 827-7154.

Sincerely,

William C. Olson Hydrogeologist

Environmental Bureau

xc: Tim Gum, OCD Artesia Office

Mike Matush, NM State Land Office

George Robinson, Cypress Engineering Services, Inc.

Benito Garcia, NMED Hazardous & Radioactive Materials Bureau

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16300 Katy Freeway, Suite 210 Houston, Texas 77094-1610

(281) 578-3115 office (281) 578-3491 fax

February 5, 1998

New Mexico State Land Office Attn. Mr. Robert Young 310 Old Santa Fe Trail Santa Fe, NM 87504

RE: Transwestern Pipeline Company - Roswell Station Remediation

Dear Robert,

Enclosed for your review and files is one copy of the report titled "Phase III Soil and Ground Water Assessment for Roswell Compressor Station No. 9 Surface Impoundments - Volume I" and dated October 15, 1997. This report presents the results of the assessment activities completed in August 1997 at Transwestern Pipeline Company's Compressor Station No. 9 located nine miles north of Roswell, New Mexico. Volume II of this report, which contains only copies of laboratory reports, is not included with this transmittal but could be provided upon request.

Also enclosed for your review and files is one copy of the "Corrective Action Plan" dated January 31, 1997.

If you have any questions or comments regarding the contents of these reports, please contact me at (713) 646-7327.

Sincerely,

George C. Robinson, P.E.

President

c w/o enclosure:

Bill Kendrick

**ENRON Gas Pipeline Group** 

Bill Olson

New Mexico Oil Conservation Division

## Bill Olson

From:

Robinson, George[SMTP:grobins@enron.com]

Sent:

Thursday, January 15, 1998 4:47 PM

To:

billolson

Cc:

timgum

Subject:

Transwestern Roswell Station

Dear Bill,

Cypress Engineering will be collecting ground water samples at the Transwestern Roswell Station on or about January 23 through January 28, 1998. If you have any questions or comments regarding this notice please call Sandy Sharp at 713-646-7252.

Thanks,

George Robinson





# Enron Transportation & Storage

Services Provided by Northern
Natural Gas Company and
Transwestern Pipeline Company
Summit Office Building
4001 Indian School Road, NE, Suite 250
Albuquerque, NM 87110
(505) 260-4000
Fax (505) 254-1437

Mr. Roger Anderson
Oil Conservation Division
2040 South pacheco
Santa Fe, New Mexico 87504

Reference:

Underground Drain Line Testing, Transwestern Pipeline Company'

Compressor Station # 9 Roswell New Mexico GW- 52

## Dear Mr. Anderson:

The following report presents the results of the underground drain line testing at the Transwestern Pipeline Company (Transwestern) Compressor Station # 9 Roswell, New Mexico facility. This station is currently operating under OCD discharge plan GW-52, which requires drain line testing to be conducted on all underground drain lines. The testing program was conducted using the methodology submitted by letter on July 8, 1997 to the OCD, which was then approved by the agency on July 16, 1997.

## **METHODOLOGY**

The testing program was initiated on November 4 - 11, 1997. The following drain line systems at the facility were hydrostatically tested:

Drain Line System	Length of Line (ft.)	Size of pipe (in.)
W. m. D' D. ' . DIL T. I	105	2.0
West Texas Pig Receiver to PLL(2) Tank	195	2.0
Mist Extractor to PLL Tank	63	2.0
PLL Tank to Truck Loading Point	111	4.0
OWW(1) to Truck Loading Point	111	4.0
Wash Bay to West Texas Pig Trap Sump	90	4.0
Comp. Bldg. OWW Sump To OWW Tank	1,230	2.0
Comp. Bldg. To OWW Sump	426 4	" drain lines to 8" Header
(1)Oily Waste Water		
(2)Pipe Line Liquids		
		4 4 4

For each drain line tested, the following methodology was employed. A test header was constructed by isolating each drain line and attaching and sealing a 90 degree elbow of the

same pipe diameter to one of the two drain pipe ends. A seven 7 ft vertical pipe of the same pipe diameter was attached and sealed to the exposed vertical end of the 90 degree elbow. At the horizontal terminal end of the exposed drain pipe a test plug was temporarily inserted and sealed. The drain line and attached test header was then filled with water to a marked level on the vertical pipe of 6.95 ft. above the horizontal elevation of the drain pipe. This water level head created a positive pressure of 3.0 psi upon the existing piping system. This pressure was then allowed to equilibrate in the pipe and the test was conducted for a period of thirty minutes to determine water loss in the pipe. Any water leakage will be indicated by a drop in the water level of the vertical pipe below the 6.95 ft mark.

## **RESULTS**

The results of the drain line testing recorded no instances where the water level in the vertical stand pipe receded below the water level mark of 6.95 ft. Based upon the results of this study, Transwestern concludes that the integrity of all underground drain line systems at this facility are intact and that no further actions are required on these lines.

Should you desire additional information concerning this testing procedure or report, contact Mr. James Russell at (505) 260-4011 or Mr. Larry Campbell at (505) 625-8022.

Sincerely,

James R. Russell

**Environmental Specialist** 

xc: Rich Jolly

Larry Campbell Roswell Team



October 14, 1997

Mr. William C. Olson Environmental Bureau New Mexico Oil Conservation Division 2040 S. Pacheco St. Santa Fe, New Mexico 87505

RECEIVED

Enron Gas Pipeline Group P.O. Box 1188

(713) 853-6161

Houston, TX 77251-1188

OCT 2 0 1997

RE: Phase III Soil and Ground Water Assessment Report Roswell Compressor Station Transwestern Pipeline Company

Environmental Bureau
Oil Conservation Division

Dear Bill,

Enclosed for your review and files is a copy of the Phase III Soil and Ground Water Assessment Report, Volumes I and II. An additional copy of Volume I of the report is also enclosed.

If you have any questions or comments regarding this report, please contact me at (713) 646-7644 or George Robinson at (713) 646-7327.

Sincerely,

Bill Kendrick

Manager, Environmental Affairs

gcr/BK

xc w/enclosures:

Benito Garcia

V Kenduch

NMED HRMB

[(2) Vol. I & (1) Vol. II]



October 14, 1997

Mr. William C. Olson Environmental Bureau New Mexico Oil Conservation Division 2040 S. Pacheco St. Santa Fe, New Mexico 87505

RE: Final Disposition of Investigation Derived Wastes (IDW)
Roswell Compressor Station
Transwestern Pipeline Company

\_

Dear Bill,

In the course of the Phase III assessment activities, approximately 350 gallons of purge water and 5 cubic yards of soil cuttings were generated. The purge water is currently stored at the site in eleven drums. At this time, only five of the drums are 100% full and require final disposition. The other six drums will continue to be used for the containment of purge water generated in the course of the next quarterly ground water sampling event. As a result, a proposal for the final disposition of these remaining drums will be submitted at a later date.

The proposed final disposition of purge water contained in the five full drums is based upon the results of laboratory analyses of ground water samples collected from each well. The proposed final disposition of soil cuttings is based upon the results of laboratory analyses of a composite soil sample collected from the stockpiled soil. The contents of each of the five drums and the proposed final disposition of IDW is summarized in the table below.

Source	Drums	Lab Results	Comments/Disposition
MW-23D purge water	4	non-detect for all VOCs & SVOCs	discharge to ground surface
MW-7, 8, 10, 14, 15, 17, & 19 purge water	1	non-detect for all VOCs & SVOCs	discharge to ground surface
"Clean" soil cuttings pile	5 cu. yds.	segregated in field based on PID < 100 ppm; non-detect for all VOCs & SVOCs; conc. of metals are within the expected range for background; TPH=100 mg/kg	spread on-site in Pit 1 area

#### Notes:

 TCLP was not necessary for characterization of soil cuttings since lab results indicate that no regulated constituents are present at a concentration greater than 20 times the TCLP

Enron Gas Pipeline Group

P.O. Box 1188 Houston, TX 77251-1188 (713) 853-6161

# RECEIVED

OCT 2 0 1997

Environmental Bureau
Oil Conservation Division

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regulatory level and therefore could not theoretically produce a TCLP extract which would contain a constituent in excess of the TCLP levels.

- The laboratory reports for ground water samples supporting the information indicated under the column heading "Lab Results" were included in the Phase III assessment report previously submitted to your office for review.
- The laboratory report for a composite soil sample collected from the soil cuttings pile is enclosed with this document. The measured TPH concentration of 100 mg/kg does not represent a significantly elevated level of TPH above background. All four soil borings were located in relatively "clean" areas well outside the immediate vicinity of the source area. Note that the results from Core Lab reported in the Phase III assessment report consistently indicate a higher than normal measured TPH concentration for all 30 discrete depth soil samples collected from the four soil borings. The measured TPH concentration for these samples ranged from 37 mg/kg to 93 mg/kg with a mean concentration of 58.9 mg/kg. The maximum measured TPH concentration of 93 mg/kg was for a sample collected from the deep well soil boring at a depth of 126 feet below ground surface. Due to the location of this sample depth within the stratigraphic sequence logged for this boring, one can conclude with fair certainty that this represents a "clean" sample.

Transwestern will implement the proposed disposition of IDW upon obtaining approval from your office. If you have any questions regarding this issue, please contact me at (713) 646-7644 or George Robinson at (713) 646-7327.

Sincerely,

Bill Kendrick

Manager, Environmental Affairs

1 Kenduck

gcr/BK

enclosure

xc w/enclosure: Tim Gum

NMOCD Artesia District Office



## **CORE LABORATORIES**

SAMPLE INFORMATION Date: 08/28/97

Job Number .: 972194

Customer ..: Daniel B. Stephens & Associates

Attn....: Bob Marley

Project Number.....: 97000162 Customer Project ID...: ENRON ROSWELL/6033.2 Project Description....: DB Stephens/ 6033.2

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
972194-1	CUTTINGS	Soil	08/08/97	10:45	08/09/97	11:05
						II
	·					
				-		

Page 1



## **CORE LABORATORIES**

LABORATORY

TEST

RESULTS

Date: 08/28/97

CUSTOMER: Daniel B. Stephens & Associates PROJECT: ENRON ROSWELL/6033.2

Job Number: 972194

ATTN: Bob Marley

Customer Sample ID: CUTTINGS Date Sampled....: 08/08/97 Time Sampled....: 10:45 Sample Matrix....: Soil

Laboratory Sample ID: 972194-1 Date Received.....: 08/09/97

Time Received.....: 11:05

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TEC
1-1230-85	Hexavalent Chromium, Solid	0.02	0.01	mg/L	08/20/97	mjf
SW-846 3050	Acid Digestion: Solids	Complete			08/19/97	veb
SW-846 6010A	Aluminum (Al), Solid	6270	50	mg/Kg	08/25/97	lmt
SW-846 6010A	Antimony (Sb), Solid	3	1	mg/Kg	08/25/97	lmt
SW-846 6010A	Arsenic (As), Solid	2	1	mg/Kg	08/25/97	lmt
SW-846 6010A	Barium (Ba), Solid	124	1 1	mg/Kg	08/25/97	lmt
SW-846 6010A	Beryllium (Be), Solid	<0.5	0.5	mg/Kg	08/25/97	lmt
SW-846 6010A	Cadmium (Cd), Solid	<0.5	0.5	mg/Kg	08/25/97	lmt
SW-846 6010A	Chromium (Cr), Solid	7	1	mg/Kg	08/25/97	lmt
SW-846 6010A	Cobalt (Co), Solid	હ	3	mg/Kg	08/25/97	lmt
SW-846 6010A	Copper (Cu), Solid	5	1	mg/Kg	08/25/97	lmt
SW-846 6010A	Lead (Pb), Solid	3.8	0.3	mg/Kg	08/25/97	imt
SW-846 7471	Mercury (Hg), Solid	<0.10	0.10	mg/Kg	08/19/97	veb
SW-846 6010A	Selenium (Se), Solid	<1	1	mg/Kg	08/25/97	lmt
SW-846 6010A	Thallium (Tl), Solid	1	1	mg/Kg	08/25/97	lmt
EPA 418.1	Total Recoverable Petroleum Hydrocarbons, Solid	100	10	mg/Kg	08/21/97	jbd
62-1.3.2.2	1:1 Soil Paste	Complete			08/19/97	mrh
SW-846 3550	Extraction (Ultrasonic) PCBs Ultrasonic Extraction	Complete			08/15/97	rwm
SW-846 8080	PCB Analysis Aroclor 1016, Solid Aroclor 1221, Solid Aroclor 1232, Solid Aroclor 1242, Solid Aroclor 1248, Solid Aroclor 1254, Solid Aroclor 1260, Solid Aroclor 1260, Solid Aroclor 1262, Solid Aroclor 1268, Solid Aroclor 1268, Solid	ND ND ND ND ND ND ND ND ND	17 17 17 17 17 17 17 17 17	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	08/22/97 08/22/97 08/22/97 08/22/97 08/22/97 08/22/97 08/22/97 08/22/97 08/22/97	SMC SMC SMC SMC SMC SMC SMC

Page 2

OCT-10-97 FRI 9:30



# **CORE LABORATORIES**

LABORATORY TEST RESULTS

Job Number: 972194

Date: 08/28/97

CUSTOMER: Daniel B. Stephens & Associates PROJECT: ENRON ROSWELL/6033.2

ATTN: Bob Marley

Customer Sample ID: CUTTINGS Date Sampled....: 08/08/97 Time Sampled....: 10:45 Sample Matrix....: Soil

Laboratory Sample ID: 972194-1 Date Received.....: 08/09/97

Time Received.....: 11:05

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE.	TECH
SW-846 3550	Extraction (Ultrasonic) SVOCs		1		1	1
	Ultrasonic Extraction	Complete			08/15/97	LAW
SW-846 8270	Semivolatile Organics				1	
	Acenaphthene, Solid	ND	330	ug/Kg	08/22/97	dnj
	Acenaphthylene, Solid	ND	330	ug/Kg	08/22/97	dmj
	Anthracene, Solid	ND	330	ug/Kg	08/22/97	
'	Benzidine, Solid	ND	1650	ug/Kg	08/22/97	dm j
	Benzo(a)anthracene, Solid	ND	330	ug/Kg	08/22/97	
	Benzo(b)fluoranthene, Solid	ND	330	ug/Kg	08/22/97	
	Benzo(k)fluoranthene, Solid	ND	330	ug/Kg	08/22/97	
	Benzo(ghi)perylene, Solid	ND	330	ug/Kg	08/22/97	dnj
	Benzo(a)pyrene, Solid	ND	330	ug/Kg	08/22/97	
	Benzyl alcohol, Solid	ND	330	ug/Kg	08/22/97	dmj
	Butyl benzyl phthalate, Solid	ND	330	ug/Kg	08/22/97	
	Bis(2-chloroethoxy)methane, Solid	ND	330	ug/Kg	08/22/97	
	Bis(2-chloroethyl)ether, Solid	ND	330	ug/Kg	08/22/97	
	Bis(2-chloroisopropyl)ether, Solid	ND	330	ug/Kg	08/22/97	
	Bis(2-ethylhexyl)phthalate, Solid	ND	330	ug/Kg	08/22/97	
	4-Bromophenyl phenyl ether, Solid	ND	330	ug/Kg	08/22/97	
	4-Chloroaniline, Solid	ND	330	ug/Kg	08/22/97	chn j
	2-Chloronaphthalene, Solid	ND	330	ug/Kg	08/22/97	ctm]
	4-Chlorophenyl phenyl ather, Solid	ND	330	ug/Kg	08/22/97	
	Chrysene, Solid	ND	330	ug/Kg	08/22/97	- 1
	Dibenzo(a,h)anthracene, Solid	ND	330	ug/Kg	08/22/97	
	Dibenzofuran, Solid	ND	330	ug/Kg	08/22/97	
	1,2-Dichlorobenzene, Solid	ND	330	ug/Kg	08/22/97	dmj
	1,3-Dichlorobenzene, Solid	ND	330	ug/Kg	08/22/97	
	1,4-Dichlorobenzene, Solid	ND	330	ug/Kg	08/22/97	
	3,3-Dichlorobenzidine, Solid	ND	330	ug/Kg	08/22/97	
	Diethyl phthalate, Solid	ND	330	ug/Kg	08/22/97	dm j
	Dimethyl phthalate, Solid	ND	330	ug/Kg	08/22/97	
	Di-n-butyl phthalate, Solid Di-n-octyl phthalate, Solid	ND	330	ug/Kg	08/22/97	
	2,4-Dinitrotoluene, Solid	ND	330	ug/Kg	08/22/97	
	2,6-Dinitrotoluene, Solid	ND	330	ug/Kg	08/22/97	quì
	Fluoranthene, Solid	ND	330	ug/Kg	08/22/97	- 1
	me a i e e	ND	330	ug/Kg	08/22/97	
		ND ND	330	ug/Kg	08/22/97	
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	_ i,	ND I	1650	ug/Kg	08/22/97	
	- 11.4 - 11.4 - 11.4	ND I	1650	ug/Kg	08/22/97 08/22/97	
		110	1030	ug/Kg	00/22/9/	Ciul

Page 3



# **CORE LABORATORIES**

TEST RESULTS LABORATORY

Job Number: 972194

Date: 08/28/97

CUSTOMER: Daniel B. Stephens & Associates PROJECT: ENROW ROSWELL/6033.2

ATTN: Bob Marley

Customer Sample ID: CUTTINGS Date Sampled....: 08/08/97 Time Sampled....: 10:45 Sample Matrix...: Soil Laboratory Sample ID: 972194-1 Date Received....: 08/09/97 Time Received.....: 11:05

EST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TE
	p-Nitroaniline, Solid	ND	1650	ug/Kg	08/22/97	dn
	Nitrobenzene, Solid	ND	330	ug/Kg	08/22/97	
	n-Nitrosodi-n-propylamine, Solid	NP	330	ug/Kg	08/22/97	
	n-Nitrosodiphenylamine, Solid	ND	330	ug/Kg	08/22/97	
	Phenanthrene, Solid	ND	330	ug/Kg	08/22/97	
	Pyrene, Solid	ND	330	ug/Kg	08/22/97	
	1,2,4-Trichlorobenzene, Solid	ND	330			
	Benzoic acid, Solid	ND	1650	ug/Kg	08/22/97	
	4-Chloro-3-methylphenol, Solid			ug/Kg	08/22/97	
	2-Chlorophenol, Solid	ND	330	ug/Kg	08/22/97	
		ND 	330	ug/Kg	08/22/97	
	2,4-Dichlorophenol, Solid	ND	330	ug/Kg	08/22/97	
	2,4-Dimethylphenol, Solid	ND	330	ug/Kg	08/22/97	
	2,4-Dinitrophenol, Solid	ND	1650	ug/Kg	08/22/97	
	2-Methyl-4,6-dinitrophenol, Solid	ND	1650	ug/Kg	08/22/97	<u> </u>
	2-Methylphenol (o-cresol), Solid	ND	330	ug/Kg	08/22/97	C
	4-Methylphenol (p-cresol), Solid	ND	330	ug/Kg	08/22/97	c
	2-Nitrophenol, Solid	ND	330	ug/Kg	08/22/97	` c
	4-Nitrophenol, Solid	ND	1650	ug/Kg	08/22/97	c
	Pentachlorophenol, Solid	ND	1650	ug/Kg	08/22/97	c
	Phenol, Solid	\ ND	330	ug/Kg	08/22/97	c
	2,4,5-Trichlorophenol, Solid	ND	330	ug/Kg	08/22/97	d
	2,4,6-Trichlorophenol, Solid	ND	330	ug/Kg	08/22/97	
1-846 8240	Volatile Organics					
	Acetone, Solid	D	100	ug/Kg	08/14/97	'n
	Benzene, Solid	ND	1	ug/Kg	08/14/97	
	Bromodichloromethane, Solid	ND	5	ug/Kg	08/14/97	1,
	Bromoform, Solid	ND	5	ug/Kg	08/14/97	
	Bromomethane, Solid	ND	10	ug/Kg	08/14/97	
	Methyl ethyl ketone (2-Butanone), Solid	ND	100	ug/Kg	08/14/97	
	Carbon disulfide, Solid	ND	5	ug/Kg	08/14/97	
	Carbon tetrachloride, Solid	ND I	5			
	Chlorobenzene, Solid	1	5	ug/Kg	08/14/97	
	Chloroethane, Solid	ND ND		ug/Kg	08/14/97	
		j	10	ug/Kg	08/14/97	
	2-Chloroethylvinyl ether, Solid	ND	10	ug/Kg	08/14/97	
	Chloroform, Solid	ND	5	ug/Kg	08/14/97	
	Chloromethane, Solid	DN	10	ug/Kg	08/14/97	
	Dibromochloromethane, Solid	ND	5	ug/Kg	08/14/97	m
	1,1-Dichloroethane, Solid	ND	5	ug/Kg	08/14/97	m
	1,2-Dichloroethane, Solid	ND	5	ug/Kg	08/14/97	a
	1,1-Dichloroethene, Solid	ND	5 5	ug/Kg	08/14/97	m
	trans-1,2-Dichloroethene, Solid	ND	5	ug/Kg	08/14/97	m
	1,2-Dichloropropane, Solid	ND	5	ug/Kg	08/14/97	
	cis-1,3-Dichlaropropene, Solid	ND	5	ug/Kg	08/14/97	
	trans-1,3-Dichloropropene, Solid	ND	5	ug/Kg	08/14/97	
	Ethylbenzene, Solid	ND	5	ug/Kg	08/14/97	
	2-Hexanone, Solid	ND	50	ug/Kg	08/14/97	
	Methylene chloride, Solid	ND	5	ug/Kg	08/14/97	
	4-Methyl-2-pentanone (MIBK), Solid	ND	50	ug/Kg	08/14/97	
	I TO A TO BE STORE	[ ······		-2/ vA	[	110

Page 4



# **CORE LABORATORIES**

LABORATORY

TEST

RESULTS

Job Number: 972194

Date: 08/28/97

CUSTOMER: Daniel 8. Stephens & Associates PROJECT: ENRON ROSWELL/6033.2

ATTN: Bob Marley

Customer Sample ID: CUTTINGS Date Sampled....: 08/08/97 Time Sampled....: 10:45

Sample Matrix....: Soil

Laboratory Sample ID: 972194-1 Date Received.....: 08/09/97

Time Received.....: 11:05

EST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TEC
	Styrene, Solid	ND	5	ug/Kg	08/14/97	mla
	1,1,2,2-Tetrachloroethane, Solid Tetrachloroethene, Solid	ND ND	5 5	ug/Kg ug/Kg	08/14/97 08/14/97	mia
	Toluene, Solid	ND	5	ug/Kg	08/14/97	mla
	1,1,1-Trichloroethane, Solid	ND	5	ug/K <b>g</b>	08/14/97	mla
	1,1,2-Trichloroethane, Solid Trichloroethene, Solid	ND ND	5 5	ug/Kg ug/Kg	08/14/97 08/14/97	mia
	Vinyl acetate, Solid	ND	50	ug/Kg	08/14/97	mta
	Vinyl chloride, Solid	ND	10	ug/Kg	08/14/97	lm ta
	Xylenes (total), Solid	ND	5	ug/Kg	08/14/97	mli
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Page 5

AEN I.D.

708323

**September 12, 1997** 

RECEIVED

NMOCD 2040 S. PACHEO

SEP 15 1997

SANTA FE,

NM 87505

Environmental Bureau
Oil Conservation Division

**Project Name** 

**ENRON ROSWELL** 

**Project Number** 

(none)

Attention:

**BILL OLSON** 

On 8/8/97 American Environmental Network (NM), Inc. (ADHS License No. AZ0015), received a request to analyze **aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

EPA method 8010/8020 was performed by American Environmental Network (NM) Inc., Albuquerque, NM.

All other analyses were performed by American Environmental Network (FL) Inc., Pensacola, FL.

If you have any questions or comments, please do not hesitate to contact us at (505)344-3777.

Kimberly D. McNeill Project Manager H. Mitchell Rubenstein, Ph.D.

General Manager

MR: mt

**Enclosure** 

CLIENT	: NMOCD	AEN I.D.	: 708323
PROJECT#	: (none)	DATE RECEIVED	: 8/8/97
PROJECT NAME	: ENRON ROSWELL	REPORT DATE	: 9/12/97
AEN			DATE
ID. #	CLIENT DESCRIPTION	MATRIX	COLLECTED
01	(MW-20) 9708071335	AQUEOUS	8/7/97
02	(MW-21) 9708071540	AQUEOUS	8/7/97
03	(MW-22) 9708071425	AQUEOUS	8/7/97
04	TRIP BLANK	AQUEOUS	8/6/97

File: 708323.XLS; COVEREP

## GAS CHROMOTOGRAPHY RESULTS

TEST : PURGEABLE HALOCARBONS / AROMATICS (EPA 8010/8020)

CLIENT : NMOCD AEN I.D.: 708323

PROJECT # : (none)

PROJECT NAME : ENRON ROSWELL

PROJECT NAME		: ENRUN RUSN	/CLL						
SAMPLE				DATE		ATE	DATE	DIL.	
ID. # CLIEN	IT I.D.		MATRIX	SAMPLED	EXT	RACTED	ANALYZED	FACTO	R
01 (MW-	20) 9708071335		AQUEOUS	8/7/97		NA	8/11/97	1	
02 (MW-	21) 9708071540		<b>AQUEOUS</b>	8/7/97		NA	8/11/97	1	
03 (MW-	22) 9708071425		AQUEOUS	8/7/97		NA	8/12/97	1	
PARAMETER		DET. LIMIT	UN	ITS	01		02	03	
BENZENE		0.5		3/L	8.7		480 (D5)	< 0.5	
BROMODICHLORM	ETHANE	0.2	UC	3/L	< 0.2		< 0.2	< 0.2	
BROMOFORM		0.5	UC	3/L	< 0.5		< 0.5	< 0.5	
BROMOMETHANE		1.0		3/L	< 1.0		< 1.0	< 1.0	
CARBON TETRACH		0.2		3/L	< 0.2		< 0.2	< 0.2	
CHLOROBENZENE		0.5		3/L	< 0.5		< 0.5	< 0.5	
CHLOROETHANE		0.5		3/L	< 0.5		< 0.5	< 0.5	
CHLOROFORM		0.5		3/L	< 0.5		< 0.5	< 0.5	
CHLOROMETHANE		1.0		3/L	< 1.0		< 1.0	< 1.0	
DIBROMOCHLORO		0.2 0.2		3/L 3/L	< 0.2 < 0.2		< 0.2 < 0.2	< 0.2 < 0.2	
1,2-DIBROMOETHA 1,2-DICHLOROBEN		0.2 0.5		3/L 3/L	< 0.2		< 0.2 < 0.5	< 0.2 < 0.5	
1,2-DICHLOROBEN 1,3-DICHLOROBEN		0.5		3/L 3/L	< 0.5		< 0.5 < 0.5	< 0.5	
1,3-DICHLOROBEN 1,4-DICHLOROBEN		0.5		3/L 3/L	< 0.5		< 0.5 < 0.5	< 0.5	
1,1-DICHLOROBEN		0.3		5/L	6.3		< 0.3	< 0.3	
1,2-DICHLOROETH		0.5		3/L 3/L	< 0.5		< 0.5	< 0.5	
1,1-DICHLOROETH	· ·	0.2		3/L	31		< 0.2	< 0.2	
cis-1,2-DICHLOROE		0.2		3/L	< 0.2		< 0.2	< 0.2	
trans-1,2-DICHLOR		1.0		6/L	< 1.0		< 1.0	< 1.0	
1,2-DICHLOROPRO		0.2		3/L	< 0.2		< 0.2	< 0.2	
cis-1,3-DICHLOROP		0.2	UC	3/L	< 0.2		< 0.2	< 0.2	
trans-1,3-DICHLORG	PROPENE	0.2	UC	3/L	< 0.2		< 0.2	< 0.2	
ETHYLBENZENE		0.5	UC	3/L	< 0.5		< 0.5	< 0.5	
METHYL-t-BUTYL E	THER	2.5		3/L	< 2.5		< 2.5	< 2.5	
METHYLENE CHLO	RIDE	2.0		3/L	< 2.0		< 2.0	< 2.0	
1,1,2,2-TETRACHLO	ROETHANE	0.5		5/L	< 0.5		< 0.5	< 0.5	
TETRACHLOROETI	HENE	0.5		9/L	< 0.5		< 0.5	< 0.5	
TOLUENE		0.5		6/L	< 0.5		1.0	< 0.5	
1,1,1-TRICHLOROE		1.0		5/L	17		< 1.0	< 1.0	
1,1,2-TRICHLOROE		0.2		5/L	< 0.2		< 0.2	< 0.2	
TRICHLOROETHEN		0.3		3/L	< 0.3		< 0.3	< 0.3	
TRICHLOROFLUOF	OMETHANE	0.2		3/L	< 0.2		< 0.2	< 0.2	
VINYL CHLORIDE		0.5		3/L ≥/I	< 0.5		< 0.5	< 0.5 < 0.5	
TOTAL XYLENES		0.5	UC	5/L	< 0.5		22	<b>~</b> 0.5	
SURROGATE:									
BROMOCHLOROM	ETHANE (%)				105		113	105	
SURROGATE LIMIT		( 73 - 117 )							
TRIFLUOROTOLUE					97		104	104	
SURROGATE LIMIT		(69 - 117)							

**CHEMIST NOTES:** 

(D5) 5X DILUTION ANALYZED ON 8-12-97.

## GAS CHROMOTOGRAPHY RESULTS

TEST : PURGEABLE HALOCARBONS / AROMATICS (EPA 8010/8020)

CLIENT : NMOCD AEN I.D.: 708323

PROJECT # : (none)

PROJECT NAME : ENRON ROSWELL

SAMPLE			DATE	DATE	DATE	DIL.
ID. # CLIENT I.D.		MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
04 TRIP BLANK		AQUEOUS	8/6/97	NA	8/11/97	1
PARAMETER	DET. LIMIT		IITS	04		
BENZENE	0.5	UC	G/L	< 0.5		
BROMODICHLORMETHANE	0.2	UC	G/L	< 0.2		
BROMOFORM	0.5	UC	G/L	< 0.5		
BROMOMETHANE	1.0	U	G/L	< 1.0		
CARBON TETRACHLORIDE	0.2	UC	G/L	< 0.2		
CHLOROBENZENE	0.5	UC	G/L	< 0.5		
CHLOROETHANE	0.5		G/L	< 0.5		
CHLOROFORM	0.5	UC	G/L	< 0.5		
CHLOROMETHANE	1.0	UC	G/L	< 1.0		
DIBROMOCHLOROMETHANE	0.2		3/L	< 0.2		
1,2-DIBROMOETHANE (EDB)	0.2	UC	G/L	< 0.2		
1,2-DICHLOROBENZENE	0.5		G/L	< 0.5		
1,3-DICHLOROBENZENE	0.5		G/L	< 0.5		
1,4-DICHLOROBENZENE	0.5	UC	G/L	< 0.5		
1,1-DICHLOROETHANE	0.3		3/L	< 0.3		
1,2-DICHLOROETHANE (EDC)	0.5		G/L	< 0.5		
1,1-DICHLOROETHENE	0.2		G/L	< 0.2		
cis-1,2-DICHLOROETHENE	0.2		3/L	< 0.2		
trans-1,2-DICHLOROETHENE	1.0		3/L	< 1.0		
1,2-DICHLOROPROPANE	0.2		3/L	< 0.2		
cis-1,3-DICHLOROPROPENE	0.2	UC	3/L	< 0.2		
trans-1,3-DICHLOROPROPENE	0.2	UC	3/L	< 0.2		
ETHYLBENZENE	0.5		3/L	< 0.5		
METHYL-t-BUTYL ETHER	2.5		3/L	< 2.5		
METHYLENE CHLORIDE	2.0		3/L	< 2.0		
1,1,2,2-TETRACHLOROETHANE	0.5			< 0.5		
TETRACHLOROETHENE	0.5		G/L	< 0.5		
TOLUENE	0.5			< 0.5		
1,1,1-TRICHLOROETHANE	1.0		G/L	< 1.0		
1,1,2-TRICHLOROETHANE	0.2			< 0.2		
TRICHLOROETHENE	0.3			< 0.3		
TRICHLOROFLUOROMETHANE	0.2			< 0.2		
VINYL CHLORIDE	0.5			< 0.5		
TOTAL XYLENES	0.5	UC	S/L	< 0.5		
SURROGATE:						•
BROMOCHLOROMETHANE (%)				103		
SURROGATE LIMITS	( 73 - 117 )					
TRIFLUOROTOLUENE (%)				105		
SURROGATE LIMITS	( 69 - 117 )					

**CHEMIST NOTES:** 

N/A

## GAS CHROMOTOGRAPHY RESULTS REAGENT BLANK

TEST : PURGEABLE HALOCARBONS / AROMATICS (EPA 8010/8020)

BLANK I.D. : 081197 AEN I.D. : 708323 **CLIENT** : NMOCD DATE EXTRACTED : N/A PROJECT# : (none) DATE ANALYZED : 8/11/97 PROJECT NAME : ENRON ROSWELL SAMPLE MATRIX : AQUEOUS

PARAMETER		UNITS		
BENZENE		UG/L	<0.5	
BROMODICHLORMETHANE		UG/L	<0.2	
BROMOFORM		UG/L	<0.5	
BROMOMETHANE		UG/L	<1.0	
CARBON TETRACHLORIDE		UG/L	<0.2	
CHLOROBENZENE		UG/L	<0.5	
CHLOROETHANE		UG/L	<0.5	
CHLOROFORM		UG/L	<0.5	
CHLOROMETHANE		UG/L	<1.0	
DIBROMOCHLOROMETHANE		UG/L	<0.2	
1,2-DIBROMOETHANE (EDB)		UG/L	<0.2	
1,2-DICHLOROBENZENE		UG/L	<0.5	
1,3-DICHLOROBENZENE		UG/L	<0.5	
1,4-DICHLOROBENZENE		UG/L	<0.5	
1,1-DICHLOROETHANE		UG/L	<0.3	
1,2-DICHLOROETHANE (EDC)		UG/L	<0.5	
1,1-DICHLOROETHENE		UG/L	<0.2	
cis-1,2-DICHLOROETHENE		UG/L	<0.2	
trans-1,2-DICHLOROETHENE		UG/L	<1.0	
1,2-DICHLOROPROPANE		UG/L	<0.2	
cis-1,3-DICHLOROPROPENE		UG/L	<0.2	
trans-1,3-DICHLOROPROPENE		UG/L	<0.2	
ETHYLBENZENE		UG/L	<0.5	
METHYL -t-BUTYL ETHER		UG/L	<2.5	
METHYLENE CHLORIDE		UG/L	<2.0	
1,1,2,2-TETRACHLOROETHANE		UG/L	<0.5	
TETRACHLOROETHENE		UG/L	<0.5	
TOLUENE		UG/L	<0.5	
1,1,1-TRICHLOROETHANE		UG/L	<1.0	
1,1,2-TRICHLOROETHANE		UG/L	<0.2	
TRICHLOROETHENE		UG/L	<0.3	
TRICHLOROFLUOROMETHANE		UG/L	<0.2	
VINYL CHLORIDE		UG/L	<0.5	
TOTAL XYLENES		UG/L	<0.5	
SURROGATE:				
BROMOCHLOROMETHANE (%)			103	
SURROGATE LIMITS	( 73 - 117 )		405	
TRIFLUOROTOLUENE (%)	/ 60 117 \		105	
SURROGATE LIMITS	( 69 - 117 )			,

CHEMIST NOTES:

N/A

## GAS CHROMOTOGRAPHY RESULTS REAGENT BLANK

TEST : PURGEABLE HALOCARBONS / AROMATICS (EPA 8010/8020)

BLANK I.D. : 081297 AEN I.D. : 708323 **CLIENT** : NMOCD DATE EXTRACTED : N/A PROJECT# : (none) DATE ANALYZED : 8/12/97 : ENRON ROSWELL PROJECT NAME SAMPLE MATRIX : AQUEOUS

PARAMETER		UNITS		
BENZENE		UG/L	<0.5	
BROMODICHLORMETHANE		UG/L	<0.2	
BROMOFORM		UG/L	<0.5	
BROMOMETHANE		UG/L	<1.0	
CARBON TETRACHLORIDE		UG/L	<0.2	
CHLOROBENZENE		UG/L	<0.5	
CHLOROETHANE		UG/L	<0.5	
CHLOROFORM		UG/L	<0.5	
CHLOROMETHANE		UG/L	<1.0	
DIBROMOCHLOROMETHANE		UG/L	<0.2	
1,2-DIBROMOETHANE (EDB)		UG/L	<0.2	
1,2-DICHLOROBENZENE		UG/L	<0.5	
1,3-DICHLOROBENZENE		UG/L	<0.5	
1,4-DICHLOROBENZENE		UG/L	<0.5	
1,1-DICHLOROETHANE		UG/L	<0.3	
1,2-DICHLOROETHANE (EDC)		UG/L	<0.5	
1,1-DICHLOROETHENE		UG/L	<0.2	
cis-1,2-DICHLOROETHENE		UG/L	<0.2	
trans-1,2-DICHLOROETHENE		UG/L	<1.0	
1,2-DICHLOROPROPANE		UG/L	<0.2	
cis-1,3-DICHLOROPROPENE		UG/L	<0.2	
trans-1,3-DICHLOROPROPENE		UG/L	<0.2	
ETHYLBENZENE		UG/L	<0.5	
METHYL -t-BUTYL ETHER		UG/L	<2.5	
METHYLENE CHLORIDE		UG/L	<2.0	
1,1,2,2-TETRACHLOROETHANE		UG/L	<0.5	
TETRACHLOROETHENE		UG/L	<0.5	
TOLUENE		UG/L	<0.5	
1,1,1-TRICHLOROETHANE		UG/L	<1.0	
1,1,2-TRICHLOROETHANE		UG/L	<0.2	
TRICHLOROETHENE		UG/L	<0.3	
TRICHLOROFLUOROMETHANE		UG/L	<0.2	
VINYL CHLORIDE		UG/L	<0.5	
TOTAL XYLENES		UG/L	<0.5	
SURROGATE:				
BROMOCHLOROMETHANE (%)			101	
SURROGATE LIMITS	( 73 - 117 )			
TRIFLUOROTOLUENE (%)	/ 00 447 )		106	
SURROGATE LIMITS	(69 - 117)		,	

CHEMIST NOTES:

N/A

## GAS CHROMOTOGRAPHY QUALITY CONTROL

## **MSMSD**

TEST : PURGEABLE HALOCARBONS / AROMATICS (EPA 8010/8020)

MSMSD# : 708323-03 AEN I.D. : 708323 **CLIENT** : NMOCD DATE EXTRACTED : N/A PROJECT# : (none) DATE ANALYZED : 8/11/97 : ENRON ROSWELL : AQUEOUS PROJECT NAME SAMPLE MATRIX

UNITS : UG/L

	SAMPLE	CONC	SPIKED	%	DUP	DUP		REC	RPD
PARAMETER	RESULT	SPIKE	SAMPLE	REC	SPIKE	% REC	RPD	LIMITS	LIMITS
BENZENE	<0.5	10.0	9.9	99	9.9	99	0	(82 -128)	20
TOLUENE	<0.5	10.0	9.4	94	9.5	95	1	(87 -128)	20
1,1-DICHLOROETHENE	<0.2	10.0	8.3	83	8.2	82	1	(44 - 99)	20
TRICHLOROETHENE	< 0.3	10.0	10.0	100	9.9	99	1	(89 - 127)	20
CHLOROBENZENE	<0.5	10.0	11.4	114	11.5	115	1	(87 - 124)	20

CHEMIST NOTES:

N/A

(Spike Sample Result - Sample Result)

% Recovery = ----- X 100

Spike Concentration

(Sample Result - Duplicate Result)

RPD (Relative Percent Difference) = ----- X 100

Average Result



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SIGNATURE PAGE

Reviewed by:

Client:

AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.

ALBUQUERQUE, NEW MEXICO

Project Name:

OCD

Project Number:

708323

Project Location: ENRON ROSWELL

Accession Number: 708223

Project Manager:

KIMBERLY D. MCNEILL

Sampled By:

N/S

Analysis Report

Analysis: Group of Single Metals

Accession: 708223

AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.

Client:
Project Number:
Project Name:
Project Location:
Department: 708323 OCD

ENRON ROSWELL METALS

[0) Page 1 Date 10-Sep-97

## "FINAL REPORT FORMAT - MULTIPLE"

Accession: Client: Project Number: Project Name: Project Location: Test: QcLevel:	OCD		K (NEW MEXICO)	INC.	-
Parameter:	Unit:	Result:	R.L:	Batch:	Q:
Client ID: 708323-0	1		Lab ID:001		
SILVER (6010) ALUMINUM (6010) ARSENIC (6010) BORON (6010) BARIUM (6010) BERYLLIUM (6010) CALCIUM (6010) CADMIUM (6010) COBALT (6010) CHROMIUM (6010) COPPER (6010) IRON (6010) POTASSIUM (6010) MAGNESIUM (6010) MAGNESIUM (6010) MOLYBDENUM (6010) SODIUM (6010) NICKEL (6010) LEAD (6010) ANTIMONY (6010) SILICON (6010) THALLIUM (6010) VANADIUM (6010) ZINC (6010)	MG/L MG/L MG/L MG/L MG/L MG/L MG/L MG/L	ND 0.024 1.9 7.0 130 0.11 0.008 200 ND ND ND ND	0.001 2.5 0.001 0.005 0.005 0.05 0.1 0.2 0.005 0.005 0.005 0.005 0.005 0.005	B6X216 Y6X216 I6X216 T6X216 H6X216 F6X216 N6X216 X6X216 J6W216 G6X216 D6X216 16X216 E6X216 P6W216 36W216	+

[0) Page 2 Date 10-Sep-97

## "FINAL REPORT FORMAT - MULTIPLE"

Accession:

Client:

708223 AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.

Project Number: 708323
Project Name: OCD
Project Location: ENRON ROSWELL
Test: Group of Single Metals

QcLevel:

II

Parameter:	Unit:	Result:	R.L:	Batch:	Q:
lient ID: 708323-02		I	ab ID:002		
SILVER (6010)	MG/L	ND	0.005	A6X216	
ALUMINUM (6010)	${ t MG/L}$	16	0.06	L6W216	
ARSENIC (6010)	${ t MG/L}$	ND	0.05	R6W216	
BORON (6010)	MG/L	0.12	0.05	O6X216	
BARIUM (6010)	MG/L	0.14	0.001	B6X216	
BERYLLIUM (6010)	MG/L	ND	0.001		
CALCIUM (6010)	MG/L	600	2.5	I6X216	+
CADMIUM (6010)	MG/L	0.002	0.001	C6X216	
COBALT (6010)	MG/L	ND	0.005	T6X216	
CHROMIUM (6010)	MG/L	0.014			
COPPER (6010)	MG/L	0.042	0.005	F6X216	
IRON (6010)	MG/L	11	0.05	N6X216	
POTASSIUM (6010)	MG/L	14	0.1	X6X216	
MAGNESIUM (6010)	MG/L	130	0.2	J6W216	
MANGANESE (6010)	$\mathtt{MG/L}$	0.40	0.005	G6X216	
MOLYBDENUM (6010)	MG/L	0.017	0.005	D6X216	
SODIUM (6010)	MG/L	200	0.1	16X216	
NICKEL (6010)	MG/L	0.01	0.005	E6X216	
LEAD (6010)	MG/L	ND	0.05	P6W216	
ANTIMONY (6010)	$\mathtt{MG/L}$	ND	0.06	36W216	
SELENIUM (6010)	MG/L	ND	0.005	S6X216	
SILICON (6010)	MG/L	50	1.0	26W216	+
THALLIUM (6010)	MG/L	ND	0.01	46X216	
VANADIUM (6010)	MG/L	0.023	0.005		
ZINC (6010)	MG/L	0.05	0.02	56X216	

[0) Page 3 Date 10-Sep-97

## "FINAL REPORT FORMAT - MULTIPLE"

Accession:

708223

AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.

Client: AMERICAN ENVIR
Project Number: 708323
Project Name: OCD
Project Location: ENRON ROSWELL

Test:

Group of Single Metals

QcLevel:

Parameter:	Unit:	Result:	R.L:	Batch:	Q:
Client ID: 708323-03		I	ab ID:003		
SILVER (6010) ALUMINUM (6010) ARSENIC (6010) BORON (6010) BARIUM (6010) BERYLLIUM (6010) CALCIUM (6010) CADMIUM (6010) COBALT (6010) CHROMIUM (6010) COPPER (6010) IRON (6010) POTASSIUM (6010) MAGNESIUM (6010) MAGNESIUM (6010) MOLYBDENUM (6010) SODIUM (6010) NICKEL (6010) LEAD (6010) ANTIMONY (6010) SELENIUM (6010) SILICON (6010)	MG/L MG/L MG/L MG/L MG/L MG/L MG/L MG/L	ND 0.38 ND 0.13 0.04 ND 550 ND ND ND ND ND ND ND ND ND ND ND ND ND	0.005 0.06 0.05 0.05 0.001 0.001 2.5 0.001 0.005 0.005 0.005 0.2 0.005 0.2 0.005 0.2 0.005 0.005 0.005	Y6X216 16X216 C6X216 H6X216 H6X216 N6X216 X6X216 J6W216 G6X216 D6X216 P6W216 36W216 36W216 26W216	+
ZINC (6010)	MG/L	ND	0.02		

[0] Page 4 Date 10-Sep-97

## "FINAL REPORT FORMAT - MULTIPLE"

Accession:

Client:

708223 AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.

Project Number: 708323
Project Name: OCD
Project Location: ENRON ROSWELL

Test:

Group of Single Metals

Client Id:	Lab Matrix:	Date/Time	Date
	Id:	Sampled:	Received:
708323-01	001 WATER	07-AUG-97 1335	14-AUG-97
708323-02	002 WATER	07-AUG-97 1540	
708323-03	003 WATER	07-AUG-97 1425	

[0) Page 5 Date 10-Sep-97

## "Method Report Summary"

Accession Number: 708223 Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.

Project Number: 708323
Project Name: OCD
Project Location: ENRON ROSWELL

Test:

Group of Single Metals

	· · · · · · · · · · · · · · · · · · ·		
Client Sample Id:	Parameter:	Unit:	Result:
708323-01	ALUMINUM (6010)	MG/L	3.3
	BORON (6010)	MG/L	0.21
	BARIUM (6010)	MG/L	0.032
	CALCIUM (6010)	MG/L	550
	COPPER (6010)	MG/L	0.024
	IRON (6010)	MG/L	1.9
	POTASSIUM (6010)	MG/L	7.0
	MAGNESIUM (6010)	MG/L	130
	MANGANESE (6010)	MG/L	0.11
	MOLYBDENUM (6010)	MG/L	0.008
		MG/L	200
	SODIUM (6010)		
	SILICON (6010)	MG/L	24
	VANADIUM (6010)	MG/L	0.007
	ZINC (6010)	MG/L	0.03
708323-02	ALUMINUM (6010)	MG/L	16
708323-02	BORON (6010)	MG/L	0.12
	BARIUM (6010)	MG/L	0.14
	CALCIUM (6010)	MG/L	600
	CADMIUM (6010)	MG/L	0.002
		MG/L	0.014
	CHROMIUM (6010)	MG/L MG/L	
	COPPER (6010)		0.042
	IRON (6010)	MG/L	11
	POTASSIUM (6010)	MG/L	14
	MAGNESIUM (6010)	MG/L	130
	MANGANESE (6010)	MG/L	0.40
	MOLYBDENUM (6010)	MG/L	0.017
	SODIUM (6010)	MG/L	200
	NICKEL (6010)	MG/L	0.01
	SILICON (6010)	MG/L	50
	VANADIUM (6010)	MG/L	0.023
	ZINC (6010)	MG/L	0.05
700303 03	ALIDATATIM (CO10)	MC /T	0.30
708323-03	ALUMINUM (6010)	MG/L	0.38
	BORON (6010)	MG/L	0.13
	BARIUM (6010)	MG/L	0.04
	CALCIUM (6010)	MG/L	550
	IRON (6010)	MG/L	0.23
	POTASSIUM (6010)	MG/L	4.3
	MAGNESIUM (6010)	MG/L	140
	MANGANESE (6010)	MG/L	0.048
	MOLYBDENUM (6010)	MG/L	0.008
		MG/L MG/L MG/L	0.008 180 13

Quality Control Report

Analysis: Group of Single Metals

Accession:

708223

Client:

AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.

Project Number: Project Name: Project Location: Department:

708323

OCD ENRON ROSWELL

METALS



[0] Page 1 Date 10-Sep-97

		#34 - F - 3 0		7 7 7 11		Date 10-Sep-
Parameter: Batch Id: Blank Result: Anal. Method: Prep. Method: Analysis Date: Prep. Date:	SILVER A6x216 <0.005 6010 3010 03-SEP-97 02-SEP-97	"Metals Q ALUMINUM L6W216 <0.06 6010 3010 09-SEP-97	ARSENIC R6W216 <0.05 6010 3010 09-SEP-97	rol Report"  BORON  06x216  <0.05  6010  3010  03-SEP-97  02-SEP-97	BARIUM B6x216 <0.001 6010 3010 03-SEP-97 02-SEP-97	BERYLLIUM Y6X216 <0.001 6010 3010 03-SEP-97 02-SEP-97
Sample Dup	lication				•	
Sample Dup:	708223-3	708223-3	708223-3	708223-3	708223-3	708223-3
Rept Limit:	<0.005	<0.06	<0.05	<0.05	<0.001	
Sample Result: Dup Result: Sample RPD: Max RPD: Dry Weight%	1.87	2.2	2.0	2.04	1.92	1.91
	1.85	2.2	2.0	2.03	1.91	1.86
	1	0	0	0	1	3
	20	20	20	20	20	20
	N/A	N/A	N/A	N/A	N/A	N/A
Matrix Spi	.ke					
Sample Spiked:	708223-3	708223-3	708223-3	708223-3	708223-3	708223-3
Rept Limit:	<0.005	<0.06	<0.05	<0.05	<0.001	<0.001
Sample Result: Spiked Result: Spike Added: % Recovery: % Rec Limits: Dry Weight%	<0.005	0.38	<0.05	0.13	0.04	<0.001
	1.87	2.2	2.0	2.04	1.92	1.91
	2.0	2.0	2.0	2.0	2.0	2.0
	94	91	100	96	94	96
	75-125	75-125	75-125	75-125	75-125	75-125
	N/A	N/A	N/A	N/A	N/A	N/A
ICV						
ICV Result:	0.5	25	4.9	1	.99	0.51
True Result:	0.5	25	5.0	1	1	0.50
% Recovery:	100	100	98	100	99	102
% Rec Limits:	90-110	90-110	90-110	90-110	90-110	90-110
LCS						
LCS Result:	1.84	2.0	2.1	1.86	1.94	1.95
True Result:	2.0	2.0	2.0	2.0	2.0	2.0
% Recovery:	92	100	105	93	97	98
% Rec Limits:	80-120	80-120	80-120	80-120	80-120	80-120

		7			
d	Pensacola,	Florida	32514	(904)	474-1001

Parameter: Batch Id: Blank Result: Anal. Method: Prep. Method: Analysis Date: Prep. Date:	CALCIUM 16X216 <2.5+ 6010 3010 03-SEP-97 02-SEP-97	"Metals Q  CADMIUM  C6X216  <0.001  6010  3010  03-SEP-97  02-SEP-97	uality Cont  COBALT  T6x216  <0.005  6010  3010  03-SEP-97  02-SEP-97	rol Report"  CHROMIUM  H6X216  <0.005  6010  3010  03-SEP-97  02-SEP-97	COPPER F6X216 <0.005 6010 3010 03-SEP-97 02-SEP-97	[0) Page 2 Date 10-Sep-97  IRON N6X216 <0.05 6010 3010 03-SEP-97 02-SEP-97
Sample Dup	lication				•	
Sample Dup:	708223-3	708223-3	708223-3	708223-3	708223-3	708223-3
Rept Limit:	<2.5+	<0.001	<0.005	<0.005	<0.005	
Sample Result:	620	1.74	1.85	1.84	2.07	2.24
Dup Result:	600	1.72	1.83	1.83	2.04	2.21
Sample RPD:	3	1	1	1	1	1
Max RPD:	20	20	20	20	20	20
Dry Weight%	N/A	N/A	N/A	N/A	N/A	N/A
Matrix Spi	ke				•	
Sample Spiked:	708223-3	708223-3	708223-3	708233-3	708223-3	708223-3
Rept Limit:	<2.5+	<0.001	<0.005	<0.005	<0.005	
Sample Result:	560	<0.001	<0.005	<0.005	<0.005	0.23
Spiked Result:	620	1.74	1.85	1.84	2.07	2.24
Spike Added:	200F	2.0	2.0	2.0	2.0	2.0
% Recovery:	30	87	93	92	104	101
% Rec Limits:	75-125	75-125	75-125	75-125	75-125	75-125
Dry Weight%	N/A	N/A	N/A	N/A	N/A	N/A
ICV						
ICV Result:	5.1	1.02	.99	1.02	1.02	5.36
True Result:	5.0	1	1.00	1	1	5
% Recovery:	102	102	99	102	102	107
% Rec Limits:	90-110	90-110	90-110	90-110	90-110	90-110
LCS						
LCS Result:	20	1.88	1.91	1.91	2.0	2.07
True Result:	20	2.0	2.0	2.0	2.0	2.0
% Recovery:	100	94	96	96	100	104
% Rec Limits:	80-120	80-120	80-120	80-120	80-120	80-120

[0]	Page	3
Date	10-5	en-97

	Date 10-Sep-					
Parameter: Batch Id: Blank Result: Anal. Method: Prep. Method: Analysis Date: Prep. Date:	POTASSIUM X6x216 <0.5+ 6010 3010 03-SEP-97 02-SEP-97	"Metals Q  MAGNESIUM  J6W216  <0.2  6010  3010  09-SEP-97  02-AUG-97	MANGANESE G6X216 <0.005 6010 3010 03-SEP-97	rol Report"  MOLYBDENUM  D6X216  <0.005  6010  3010  03-SEP-97  02-SEP-97	SODIUM 16X216 <20 6010 3010 03-SEP-97 02-SEP-97	NICKEL E6x216 <0.005 6010 3010 03-SEP-97 02-SEP-97
Sample Dup						
Sample Dup:	708223-3	708223-3	708223-3	708223-3	708223-3	708223-3
Rept Limit:	<0.5+	<0.2	<0.005	<0.005	<20	
Sample Result:	25	160	1.93	1.91	200	1.87
Dup Result:	24	160	1.88	1.89	200	1.84
Sample RPD:	4	0	3	1	0	2
Max RPD:	20	20	20	20	20	20
Dry Weight%	N/A	N/A	N/A	N/A	N/A	N/A
Matrix Spi						
Sample Spiked:	708223-3	708223-3	708223-3	708223-3	708223-3	708223-3
Rept Limit:	<0.5+	<0.2	<0.005	<0.005	<20	
Sample Result:	4.3	140	0.048	0.008	180	<0.005
Spiked Result:	25	160	1.93	1.91	200	1.87
Spike Added:	20	20	2.0	2.0	20	2.0
% Recovery:	104	100	94	95	100	94
% Rec Limits:	75-125	75-125	75-125	75-125	75-125	75-125
Dry Weight%	N/A	N/A	N/A	N/A	N/A	N/A
ICV						
ICV Result:	5.0	25	0.98	0.99	5.0	1.0
True Result:	5.0	25	1	1	5.0	1.0
% Recovery:	100	100	98	99	100	100
% Rec Limits:	90-110	90-110	90-110	90-110	90-110	90-110
LCS						
LCS Result:	19	20	1.88	1.94	20	1.98
True Result:	20	20	2.0	2.0	20	2.0
% Recovery:	95	100	94	97	100	99
% Rec Limits:	80-120	80-120	80-120	80-120	80-120	80-120

[0) Page 4 Date 10-Sep-97

		_		_		Date 10-Sep-9					
Parameter: Batch Id: Blank Result: Anal. Method: Prep. Method: Analysis Date: Prep. Date:	LEAD P6W216 <0.05 6010 3010 09-SEP-97 02-SEP-97	"Metals (ANTIMONY 36W216 < 0.06 6010 3010 09-SEP-97 02-SEP-97	Duality Cont   SELENIUM   S6X216   <0.005   6010   3010   03-SEP-97   02-SEP-97	rol Report"  SILICON  26W216  <0.1  6010  3010  09-SEP-97  02-SEP-97	VANADIUM V6X216 <0.005 6010 3010 03-SEP-97 02-SEP-97						
Sample Dup	Sample Duplication										
Sample Dup:	708223-3	708223-3	708223-3	708223-3	708223-3	708223-3					
Rept Limit:	<0.05	<0.06	<0.005.	<0.1	<0.01						
Sample Result:	1.9	2.0	1.79	15	1.86	1.95					
Dup Result:	1.9	2.0	1.74	15	1.82	1.93					
Sample RPD:	0	0	3	0	2	1					
Max RPD:	20	20	20	20	20	20					
Dry Weight%	N/A	N/A	N/A	N/A	N/A	N/A					
Matrix Spike											
Sample Spiked:	708223-3	708223-3	708223-3	708223-3	708223-3	708223-3					
Rept Limit:	<0.05	<0.06	<0.005	<0.1	<0.01						
Sample Result:	,0.05	0.06	<0.005	13	<0.01	<0.005					
Spiked Result:	1.9	2.0	1.79	15	1.86	1.95					
Spike Added:	2.0	2.0	2.0	2.0	2.0	2.0					
% Recovery:	95	97	90	100	93	98					
% Rec Limits:	75-125	75-125	75-125	75-125	75-125	75-125					
Dry Weight%	N/A	N/A	N/A	N/A	N/A	N/A					
ICV											
ICV Result:	5.0	5.0	1	10	0.99	1					
True Result:	5.0	5.0	1	10	1	1					
% Recovery:	100	100	100	100	99	100					
% Rec Limits:	90-110	90-110	90-110	90-110	90-110	90-110					
LCS											
LCS Result:	2.1	2.0	1.76	2.0	1.92	1.99					
True Result:	2.0	2.0	2.0	2.0	2.0	2.0					
% Recovery:	105	100	88	100	96	100					
% Rec Limits:	80-120	80-120	80-120	80-120	80-120	80-120					

[0) Page 5 Date 10-Sep-97

"Metals Quality Control Report"

ZINC Parameter: Batch Id: Blank Result: 56X216 <0.02 Anal. Method: Prep. Method: Analysis Date: 6010 3010 03-SEP-97

Prep. Date: 02-SEP-97

## Sample Duplication

Sample Dup:	708223-3
Rept Limit:	<0.02
Sample Result: Dup Result: Sample RPD: Max RPD: Dry Weight%	1.75 1.73 1 20 N/A

## Matrix Spike

Rept Limit:	<0.02
Sample Result: Spiked Result: Spike Added:	<0.02 1.75 2.0
% Recovery:	00 75 105

Sample Spiked: 708223-3

% Rec Limits: 75-125 Dry Weight% N/A

## ICV

ICV Result:	1.01
True Result:	1
<pre>% Recovery:</pre>	101
<pre>% Recovery: % Rec Limits:</pre>	90-110

## LCS

LCS Result:	1.91
True Result:	2.0
% Recovery:	96
% Rec Limits:	80-120

[0) Page 6 Date 10-Sep-97

"Quality Control Comments"

Batch Id:

```
A6x216
               ANALYST:
                         ιTR
               The results reported under "Sample Duplication" are the MS/MSD.
A6x216
L6W216
               ANALYST:
                         JLH
               The results reported under "Sample Duplication" are the MS/MSD.
L6W216
R6W216
               ANALYST: JLH
               The results reported under "Sample Duplication" are the MS/MSD.
R6W216
06x216
               ANALYST:
                         JR
               The results reported under "Sample Duplication" are the MS/MSD.
06x216
B6x216
               ANALYST:
                         JR
B6x216
               The results reported under "Sample Duplication" are the MS/MSD.
Y6X216
               ANALYST:
                        JR
               The results reported under "Sample Duplication" are the MS/MSD.
Y6X216
I6X216
               ANALYST: JR
T6X216
               The results reported under "Sample Duplication" are the MS/MSD.
C6X216
               ANALYST:
                         JR
               The results reported under "Sample Duplication" are the MS/MSD.
C6X216
T6x216
               ANALYST:
                        JR
T6x216
               The results reported under "Sample Duplication" are the MS/MSD.
H6X216
               ANALYST: JR
               The results reported under "Sample Duplication" are the MS/MSD.
H6X216
F6X216
               ANALYST:
                         JR
               The results reported under "Sample Duplication" are the MS/MSD.
F6X216
X6x216
               ANALYST:
                        JR
X6x216
               The results reported under "Sample Duplication" are the MS/MSD.
J6W216
               ANALYST: JR
J6W216
               The results reported under "Sample Duplication" are the MS/MSD.
G6X216
               ANALYST:
                         JR
G6X216
               The results reported under "Sample Duplication" are the MS/MSD.
D6X216
               ANALYST:
                         JR
               The results reported under "Sample Duplication" are the MS/MSD.
D6X216
16X216
               ANALYST: JR
               The results reported under "Sample Duplication" are the MS/MSD.
16X216
E6x216
               ANALYST:
                        JR
E6x216
               The results reported under "Sample Duplication" are the MS/MSD.
P6W216
               ANALYST:
                         JR
               The results reported under "Sample Duplication" are the MS/MSD.
P6W216
36W216
               ANALYST:
                        JLH
36W216
               The results reported under "Sample Duplication" are the MS/MSD.
S6X216
               ANALYST: JR
               The results reported under "Sample Duplication" are the MS/MSD.
S6X216
               ANALYST:
26W216
                        JR
26W216
               The results reported under "Sample Duplication" are the MS/MSD.
46x216
               ANALYST:
46x216
               The results reported under "Sample Duplication" are the MS/MSD.
               ANALYST:
V6X216
                        JR
V6X216
               The results reported under "Sample Duplication" are the MS/MSD.
56X216
               ANALYST:
                        JR
               The results reported under "Sample Duplication" are the MS/MSD.
56X216
```

[0) Page 7 Date 10-Sep-97

### ---- Common Footnotes Metals -----

N/A = NOT APPLICABLE. N/S = NOT SUBMITTED.

N/C = SAMPLE AND DUPLICATE RESULTS ARE AT OR BELOW AEN REPORTING LIMIT; THEREFORE, THE RPD IS "NOT CALCULABLE" AND NO CONTROL LIMITS APPLY.

N/D = NOT DETECTED.

DISS. OR D = DISSOLVEDT & D = TOTAL AND DISSOLVED

R = REACTIVE

T = TOTAL

G = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE RESULT IS AT OR BELOW AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "IN CONTROL".

Q = THE ANALYTICAL (POST-DIGESTION) SPIKE IS REPORTED DUE TO PERCENT RECOVERY

BEING OUTSIDE ACCEPTANCE LIMITS ON THE MATRIX (PRE-DIGESTION) SPIKE.

= ELEVATED REPORTING LIMIT DUE TO INSUFFICIENT SAMPLE.

= ELEVATED REPORTING LIMIT DUE TO DILUTION INTO CALIBRATION RANGE.

\* = ELEVATED REPORTING LIMIT DUE TO MATRIX INTERFERENCE. (DILUTION PRIOR TO ANALYSIS)

@ = ADJUSTED REPORTING LIMIT DUE TO SAMPLE MATRIX. (DILUTION PRIOR TO DIGESTION)

= ANALYTICAL (POST DIGESTION) SPIKE.

I = DUPLICATE INJECTION.

& = AUTOMATED

F = SAMPLE SPIKED > 4 X SPIKE CONCENTRATION.

N/C+ = NOT CALCULABLE

N/C\* = NOT CALCULABLE; SAMPLE SPIKED > 4 X SPIKE CONCENTRATION.

H = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL".

A = SAMPLE AND DUPLICATE RESULTS ARE "OUT OF CONTROL".

Z = THE SAMPLE RESULT FOR THE SPIKE IS BELOW THE REPORTING LIMIT. HOWEVER, THIS RESULT IS REPORTED FOR ACCURATE QC CALCULATIONS.

NH= SAMPLE AND / OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT

AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL". SAMPLE IS NON-HOMOGENEOUS.

J = (FLORIDA DEP 'J' FLAG) - MATRIX SPIKE AND POST SPIKE RECOVERY IS OUT OF

THE ACCEPTABLE RANGE. SEE OUT OF CONTROL EVENTS FORM.  $U = (FLORIDA\ DEP\ 'U'\ FLAG)$  - THE COMPOUND WAS ANALYZED FOR, BUT NOT DETECTED.

S = METHOD OF STANDARD ADDITIONS (MSA) WAS PERFORMED ON THIS SAMPLE.

### FROM ANALYSIS REPORT:

REPT LMTS = REPORTING LIMIT BASED ON METHOD DETECTION LIMIT STUDIES. Q= QUALIFIER (FOOTNOTE)

FROM QUALITY CONTROL REPORT:

RPD= RELATIVE PERCENT DEVIATION.

REPT LIMIT= REPORTING LIMIT BASED ON METHOD DETECTION LIMIT STUDIES.

NOTE: THE UNITS REPORTED ON THE QUALITY CONTROL REPORT ARE REPORTED ON AN AS RUN BASIS. (NOT ADJUSTED FOR DRY WEIGHT).

SW-846, 3rd Edition, latest revision. EPA 600/4-79-020, Revised March 1983. NIOSH Manual of Analytical Methods, 4th Edition. Standard Methods For the Examination of Water and Wastewater, 18th Edition, 1992. Methods For the Determination of Metals in Environmental Samples - Supplement I, EPA 600/R-94-111, May 1994.

GJ = GARY JACOBS

JLH = JAMES L. HERED

CD = CHRISTY DRAPER

JR = JOHN REED LV = LASSANDRA VON APPEN

# PROJECT AMPLE INSPECTION ORM

ab Accession #: 708223	Date Received: 14-Avs-97
Was there a Chain of Custody? (Yes) No*	8. Were samples checked for preservative? (Check pH of all H <sub>2</sub> O regulding preservative except VOA vials that
Was Chain of Custody properly Yes No*	9. Is there sufficient volume for Yes No analysis requested?
Were samples received cold? (Criteria: 1° - 4°C: AEN-SOP 1055)	10. Were samples received within Yes No* Holding Time? GENERA TO AEN-SOP 1040)
Were all samples properly Iabeled and identified? Did samples require splitting? Req By: PM Client Other*	11. Is Headspace visible > ¼ " in Yes* No N/A diameter in VOA vials?* If any headspace is evident, comment in out-of-control section.
Were samples received in proper containers for analysis	12. If sent, were matrix spike Yes No* N/A bottles returned?
requested? Were all sample containers received intact?  Yes No*	13. Was Project Manager notified Yes No N/A of problems? (initials:)
urbill Number(s):	Shipped By:
Cooler Number(s):	Shipping Charges: NA
Cooler Weight(s): N A	Cooler Temp(s) (°C): 4°C (UST THERMOMETER NUMBER(S) FOR VERIFICATION)
Out of Control Events and Inspection Comments	
J-LL Was	(USE BACK OF PSIFFOR ADDITIONAL NOTES AND COMMENTS )
Note all Out-of-Control and/or questionable events on Common	Logged By (1) 19) 1  Date: 14 - HUS-7 )

Note who requested the splitting of samples on the Comment Section of this form.

All preservatives for the State of North Carolina, the State of New York, and other requested samples are to be recorded on the sheet provided to record pH results (AEN-SOP 938, section 2.2.9).

According to EPA, ¼ of headspace is allowed in 40 ml visis requiring voletile analysis, however, AEN makes it policy to record any headspace as out-of-control (AEN-SOP 938, section 2.2.12).

American Environmental Network Albuquerque, New Mexico

## **Interlab Chain of Custody**

<b>PHATE SAID</b>	જો જો જો જો કે	लेक्ष्मी । जिल्हा
DATE: 8-12	PAGE:.	OF /

NETWORK PROJECT MANAGER: KIMBER		ANALYSIS REQUEST											$\neg$											
COMPANY: American Enviro 2709-D Pan American F Albuquerque, NM 87107	work	1	, c . C .	T+u# 24 List below								Presticides/Pros (Suskusu)	Compounds GC/MS (625/8270)	s GC/MS (624/8240)	Aromatics (610/8310)	8240 (TCLP 1311) ZHE	11)			E			NUMBER OF CONTAINERS	
CLIENT PROJECT MANAGER;		Š	- PP List	- RCAA	위시			nistry		Grease			מולק היו	Base/Neutral Acid	ganic	ar Aro	P 13	P 1311)			Alona/Beta			F CO
Kim McNeill			Metals -	Metals - RCR	Metal	×	0	Gen Chemistry		밀			ilcide;	Neut	ile O	Polynuclear	ว (TC	3270 (TCLP		1	ss Alo			BER 0
SAMPLE ID DATE	TIME MATRIX	LAB ID	¥ ge	S S	2 2	δī	5	Ger		ō	80 80		L L	Base	Vola	Poly	824	327(		70-14	Gross			N S
708323-01 8-7	1335 AQ		44		X			_										$\prod$						
-0Z 8-7	1540 AQ		11	_ _	X					$\sqcup$			$\perp$	L										
-03 8-7	1425 AQ		1-1		X						$\perp$		$\perp$											
	<u> </u>			_ _			_	-	_	_	_	_ _	_ _	_		_	_	$\bot$	$\bot$					
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September 8, 1997

Mr. William C. Olson Environmental Bureau New Mexico Oil Conservation Division 2040 S. Pacheco St. Santa Fe, New Mexico 87505

RE: Phase III Soil and Ground Water Assessment

Roswell Compressor Station Transwestern Pipeline Company

Dear Bill,

Transwestern completed implementation of the Phase III assessment field activities on August 8, 1997. These activities were completed as outlined in our most recent correspondence dated June 23, 1997. Transwestern's consultants, Cypress Engineering and Daniel B. Stephens & Associates, are currently in the process of preparing a report of assessment activities and results. A copy of the report will be submitted to your office for review by October 15, 1997.

If you have any questions or comments regarding the scheduled submittal date for the report, please contact me at (713) 646-7644 or George Robinson at (713) 646-7327.

Sincerely,

Bill Kendrick

Manager, Environmental Affairs

gcr/BK

xc: Benito Garcia

NMED HRMB

Lou Soldano

ENRON GPG Legal

Richard Virtue

Virtue & Najjar, P.C.

Larry Campbell

Transwestern

George Robinson

Cypress Engineering

Natural gas. Electricity. Endless possibilities.

Enron Gas Pipeline Group P.O. Box 1188

Houston, TX 77251-1188 (713) 853-6161

ONCERVATION DIVISION



## STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

### OIL CONSERVATION DIVISION

2040 S. PACHECO SANTA FE, NEW MEXICO 87505 (505) 827-7131

August 15, 1997

## CERTIFIED MAIL RETURN RECEIPT NO. P-410-431-211

Mr. Bill Kendrick
ENRON Gas Pipeline Group
P.O. Box 1188
Houston, Texas 77251-1188

**RE:** GROUND WATER REMEDIATION

**ROSWELL COMPRESSOR STATION** 

Dear Mr. Kendrick:

The New Mexico Oil Conservation Division has reviewed ENRON Gas Pipeline Group's (ENRON) June 23, 1997 "PHASE III SOIL AND GROUND WATER ASSESSMENT, ROSWELL COMPRESSOR STATION, TRANSWESTERN PIPELINE COMPANY". The document contains an update of the scheduled assessment activities at the ENRON Roswell Compressor. The document also contains a proposal to plug and abandon recovery well MW-1.

In order to minimize cross contamination of the shallow and deep aquifers as a result of the completion intervals of this well, the above referenced proposal is approved.

Please be advised that OCD approval does not relieve ENRON of liability should their remediation and monitoring program fail to adequately monitor or remediate contamination related to ENRON's operations. In addition, this approval does not relieve ENRON of responsibility for compliance with any other federal, state, tribal or local laws and/or regulations.

If you have any questions, please call me at (505) 827-7154.

Sincerely

William C. Olson Hydrogeologist

Environmental Bureau

XC:

OCD Artesia Office

George Robinson, Cypress Engineering Services, Inc.

Benito Garcia, NMED Hazardous & Radioactive Materials Bureau

## P 410 431 211

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Enron Gas Pipeline Group

P.O. Box 1188 Houston, TX 77251-1188 (713) 853-6161

June 23, 1997

Mr. William C. Olson Environmental Bureau New Mexico Oil Conservation Division 2040 S. Pacheco St. Santa Fe, New Mexico 87505

RE: Phase III Soil and Ground Water Assessment Roswell Compressor Station Transwestern Pipeline Company

Dear Bill,

Transwestern has scheduled implementation of Phase III assessment activities to begin on July 21, 1997. Assessment activities will follow the scope of work which was outlined in Sections 3 and 4 of the Phase III Soil and Ground Water Assessment Plan dated February 26, 1997, and submitted to your office for review. This scope includes the installation of three ground water monitor wells into the uppermost aquifer to complete delineation of affected ground water, the installation of one deep ground water monitor well to determine whether the bedrock aquifer has been affected, and the initiation of a routine ground water monitoring program. Transwestern will incorporate into the work plan the conditions set out in your letter of approval dated April 17, 1997.

An additional task which was not included in the Phase III work plan will be added to the scope of work to be completed. This task is to abandon the recovery well MW-1. Subsequent to heavy rain events, large volumes of water (4000-6000 gallons) are recovered from this well. Generally, this would not present a great problem considering the low concentrations of contaminants contained in the recovered water, however, pending a resolution with the NMED HRMB regarding management of contaminated media, Transwestern has managed the water as if it were a hazardous waste. Disposal costs are high and managing the water in this manner is unwarranted. Therefore, Transwestern plans to abandon this well by overdrilling the well casing, removing the casing to total depth, and grouting the borehole with a 3-5% bentonite grout. Continued remediation in the immediate vicinity of this well will be addressed more effectively by a comprehensive remediation plan to be developed and implemented subsequent to the completion of assessment activities.

Section 2 of the Phase III plan, which includes a scope of work for the collection of soil samples for the determination of background concentrations of metal constituents, will

not be implemented at this time pending comments from the NMED HRMB on this issue. In addition, the scope of work for the collection of soil samples for bench scale testing by remediation subcontractors will not be implemented at this time pending a resolution with the NMED HRMB regarding management of contaminated media. These tasks will be scheduled at a later date.

If you have any questions or comments regarding this schedule or the scope of work, please contact me at (713) 646-7644 or George Robinson at (713) 646-7327.

Sincerely,

Bill Kendrick

Manager, Environmental Affairs

gcr/BK

xc:

Benito Garcia

NMED HRMB

Lou Soldano

**ENRON GPG Legal** 

Richard Virtue

Virtue & Najjar, P.C.





## ENERGY. MINERALS AND NATURAL RESOURCES DEPARTMENT

### **OIL CONSERVATION DIVISION**

2040 S. PACHECO SANTA FE, NEW MEXICO 87505 (505) 827-7131

April 17, 1997

## CERTIFIED MAIL RETURN RECEIPT NO: P-410-431-167

Mr. Bill Kendrick
ENRON Operations Corp.
P.O. Box 1188
Houston, Texas 77251-1188

RE: PHASE III INVESTIGATION WORK PLAN

ROSWELL COMPRESSOR STATION TRANSWESTERN PIPELINE CO.

Dear Mr. Kendrick:

The New Mexico Oil Conservation Division (OCD) has completed a review of Transwestern Pipeline Company's (TPC) February 28, 1996 "PHASE III SOIL AND GROUND WATER ASSESSMENT PLAN, ROSWELL COMPRESSOR STATION, TRANSWESTERN PIPELINE COMPANY". This document contains TPC's proposed work plan for additional (Phase III) soil and ground water contamination investigations at the Roswell Compressor Station. The document also contains a long term ground water monitoring plan.

The above referenced proposed Phase III work plan and long term ground water monitoring plan is approved with the following conditions:

- The closest soil borings for determining background soil metals concentrations will be located a minimum of 50 feet from the external boundaries of former pit #1.
- 2. The OCD defers comment on TPC's risk-based contaminant closure levels or performance standards. During site investigations, the OCD considers the OCD's "UNLINED SURFACE IMPOUNDMENT CLOSURE GUIDELINES" and the New Mexico Water Quality Control Commission standards to be the screening levels used in contaminant investigations. The OCD will consider appropriate remediation levels and standards for site closure when the contaminant investigations are complete and a remedial action plan is submitted.
- 3. The OCD defers comment on modifications to long term metals ground water monitoring until actual monitoring data is submitted which supports the recommended changes.

Mr. Bill Kendrick April 17, 1997 Page 2

- 4. All wastes generated will be analyzed for hazardous characteristics, benzene, toluene, ethylbenzene, xylene and total petroleum hydrocarbons and submitted to the OCD for approval prior to disposal.
- 5. TPC will coordinate the Phase III monitor well sampling to coincide with a quarterly sampling event such that all new and preexisting monitor wells are sampled at the same time.
- 6. All cement grouts used for monitor well completion or plugging and abandonment of boreholes will contain 3 to 5% bentonite.
- 7. TPC will submit a report on the Phase III investigations to the OCD by August 29, 1997. The report will contain:
  - a. A description of all activities which occurred during the investigation including conclusions and recommendations. The recommendations will include any necessary modifications to the long term ground water monitoring program.
  - b. Lithologic logs and as built well construction diagrams for each soil boring and monitor well.
  - c. Summary tables listing all soil laboratory analytic results including copies of the laboratory analyses and quality assurance/quality control data.
  - d. Summary tables listing all past and present laboratory analytic results of all water quality sampling for each monitoring point including copies of the current laboratory analyses and quality assurance/quality control data.
  - e. Soil and ground water isoconcentration maps for contaminants of concern (COC). In addition to the COC's proposed, COC's will include all contaminants which either are in excess of or have the potential to cause an exceedance of WQCC standards.
  - f. A water table elevation map using the water table elevation of the ground water in all monitor wells.
  - g. A product thickness map based on the thickness of free phase product in all monitor wells.
  - h. The recommended disposition of any wastes generated during the investigations.

Mr. Bill Kendrick April 17, 1997 Page 3

- TPC will notify the OCD at least one week in advance of all 8. scheduled activities such that an OCD representative has the opportunity to witness the events and/or split samples.
- All documents submitted for approval will be submitted to the 9. OCD Santa Fe Office with copies provided to the OCD Artesia District Office.

Please be advised that OCD approval does not relieve TPC of liability if contamination exists which is beyond the scope of the work plan, or if the activities fail to adequately determine the extent of contamination related to TPC's activities. In addition, OCD approval does not relieve TPC of responsibility for compliance with RCRA hazardous waste regulations or any other federal, state or local laws and/or regulations.

If you have any questions, please call me at (505) 827-7154.

Sincerely,

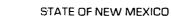
William C. Olson

Hydrogeologist Environmental Bureau

OCD Artesia District Office xc: Mark Weidler, Secretary NMED

Benito Garcia, NMED Hazardous and Radioactive Materials Bureau George Robinson, Cypress Engineering Services, Inc.

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## ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

### OIL CONSERVATION DIVISION

2040 S. PACHECO SANTA FE, NEW MEXICO 87505 (505) 827-7131

April 14, 1997

## CERTIFIED MAIL RETURN RECEIPT NO: P-410-431-166

Mr. Bill Kendrick
ENRON Operations Corp.
P.O. Box 1188
Houston, Texas 77251-1188

RE: TRANSWESTERN PIPELINE CO. ROSWELL COMPRESSOR STATION

Dear Mr. Kendrick:

The New Mexico Oil Conservation Division (OCD) has completed a review of Transwestern Pipeline Company's (TPC) February 13, 1996 "FINAL DISPOSITION OF INVESTIGATION DERIVED WASTES, ROSWELL COMPRESSOR STATION, TRANSWESTERN PIPELINE COMPANY". This document contains TPC's request to dispose of soils and ground water from soil borings and ground water monitor wells onsite at the Roswell Compressor Station. The disposal requests are based upon laboratory analytical sampling results.

The above referenced disposal request is approved with the exception of the soil investigation wastes from SVE-2, MW-16, MW-13 and SVE-3. Due to the confusion over the RCRA nature of the solvent wastes contained in the soils from SVE-2, MW-16, MW-13 and SVE-3, TPC's request to dispose of the soils from these boreholes on-site is denied. The OCD requires that TPC further evaluate disposal options for these wastes.

Please be advised that OCD approval does not relieve TPC of liability should their disposal actions result in actual pollution of ground water, surface water, or the environment. In addition, OCD approval does not relieve TPC of responsibility for compliance with any other federal, state or local laws and/or regulations.

If you have any questions, please contact me at (505) 827-7154.

Sincerely,

William C. Olson Hydrogeologist

Environmental Bureau

xc: OCD Artesia District Office

George Robinson, Cypress Engineering Services, Inc.

## P 410 431 166

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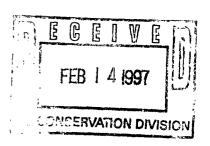
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# **ENRON**OPERATIONS CORP.

P. O. Box 1188 Houston, Texas 77251-1188 (713) 853-6161

February 13, 1997

Mr. William C. Olson Environmental Bureau New Mexico Oil Conservation Division 2040 S. Pacheco St. Santa Fe, New Mexico 87505



RE: Final Disposition of Investigation Derived Wastes Roswell Compressor Station Transwestern Pipeline Company

Dear Bill,

In the course of the Phase II assessment activities, several drums of investigation derived wastes (IDW) were generated. Most of the IDW had been classified as hazardous/non-hazardous based upon analytical results for samples collected in the course of the assessment, however, some of the IDW required additional sample analyses for classification. The results of the additional sample analyses is summarized in the table below which also lists the source, contents, and proposed disposition of the IDW currently stored at the site.

Source	Drums	Initial Lab Results	Results of Re-sampling	Comments/Disposition
used PPE & other misc. trash	2	not sampled	na	dispose of in station dumpster
SVE-2 soil cuttings	2	PCB(1254)=0.320 ppm, low detections of solvents and BTEX, TPH(max)=3700 ppm	composite of 6 samples (3 from each drum): PCBs < 22 ppb, TPH=6750 ppm	spread on-site in Pit 1 area
MW-16 soil cuttings	1	PCB(1254)=0.021 ppm benzene(max)=3.0 ppm TPH(max)=7200 ppm	composite of 3 samples: PCBs < 22 ppb, TPH=2250 ppm	spread on-site in Pit 1 area
MW-13 soil cuttings	3	low detections of solvents and BTEX TPH(max)=17000 ppm	composited 9 samples (3 from each drum) into 1: TPH=3130 ppm	spread on-site in Pit 1 area
SVE-3 soil cuttings	1	low detections of solvents and BTEX TPH(max)=24 ppm	na	spread on-site in Pit 1 area
MW-15 soil cuttings	4	TPH(max)=34 ppm	na	spread on-site in Pit 1 area
SVE-1 soil cuttings	2	TPH(max)=58 ppm	na	spread on-site in Pit 1 area

Source	Drums	Initial Lab Results	Results of Re-sampling	Comments/Disposition			
MW-13 purge water	1	benzene= 4600 ppb	na	contents were classified as characteristically hazardous waste and have already been picked up by Rollins for disposal			
MW-12 purge water	2	benzene= 760 ppb	dr#1: all BTEX <2 ppb dr#2: all BTEX <2 ppb	discharge to ground surface			
MW-7 purge water	1	all VOCs non-detect except xylene@ 52 ppb	na	discharge to ground surface			
MW-10 purge water	1	all VOCs non-detect except benzene@ 2 ppb	na	discharge to ground surface			
MW-11 purge water	1	all VOCs non-detect except benzene@ 1 ppb	na	discharge to ground surface			
MW-14 purge water	1	all VOCs non-detect except benzene@ 2 ppb	na	discharge to ground surface			
MW-15 purge water	1	all VOCs non-detect except benzene@ 4 ppb, toluene@ 6 ppb & xylene@ 6 ppb	na	discharge to ground surface			
MW-17 purge water	1	all VOCs non-detect except benzene@ 2 ppb	na	discharge to ground surface			
MW-19 purge water	1	all VOCs non-detect except benzene@ 2 ppb	na	discharge to ground surface			
"Clean" soil cuttings pile	5 -10 cu. yds.	segregated in field based on PID < 100 ppm	all VOCs by method 8010/8020 non-detect PCBs < 22 ppb, TPH = 67 ppm	spread on-site in Pit 1 area			

### Notes:

- TCLP was not necessary for characterization of any of the soil samples since lab results indicate that no regulated constituents are present at a concentration greater than 20 times the TCLP regulatory level and therefore could not theoretically produce a TCLP extract which would contain a constituent in excess of the TCLP levels.
- The lab results indicated under the column heading "Initial Lab Results" were, in general, obtained from the most affected soil sample (as determined by field headspace screening) collected in the course of drilling each boring. As a result, the relatively high TPH concentrations measured in some samples were not representative of the entire volume of soil cuttings from those borings. For this reason, composite soil samples were collected from six drums of IDW and submitted to a lab for TPH analysis.
- Three drums of soil were generated from borings for which analyses of a sample from these borings indicated the presence of low concentrations of PCBs. It is unlikely that the detections reported by the lab represent a real presence of PCBs. Therefore, the contents of

these drums were resampled and analyzed for PCBs by a second lab. The more recent lab results indicate non-detect for PCBs.

- Two drums of purge water, from MW-12, were temporarily classified as characteristically hazardous waste based on the results of a ground water sample result. However, based on the results of re-sampling, the purge water from MW-12 has been reclassified as non-hazardous.
- The laboratory reports supporting the information indicated under the column heading "Initial Lab Results" were included in the Phase II assessment report previously submitted to your office for review. The laboratory reports supporting the information indicated under the column heading "Results of Re-sampling" are included as an attachment to this letter.

Transwestern will implement the proposed disposition of IDW upon obtaining approval from your office. If you have any questions regarding this issue, please contact me at (713) 646-7644 or George Robinson at (713) 646-7327.

Sincerely,

Bill Kendrick

Manager, Environmental Affairs

gcr/BK

xc w/enclosure:

Tim Gum

NMOCD Artesia District Office





## ANALYTICAL AND QUALITY CONTROL REPORT

George Robinson ENRON CORPORATION Env. Affairs, Rm 3 AC 3142 P.O. Box 1188 Houston, TX 77251 01/03/1997

EPIC Job Number: 96.09138

Page 1

Project Description:

Job Description: Enron/TWP Roswell Station

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to EPIC Laboratories, Inc. for analysis:

Sample	Sample Description	Date	Time	Date
Number		Taken	Taken	Received
325683 325684 325685 325686 325687 325688	SVE-2 Soil Cuttings Monitor Well #16 Soil Cuttings Monitor Well #13 Soil Cuttings Soil Cuttings Clean Pile Purge Water MW-12 Drum 1 Purge Water MW-12 Drum 2	12/19/1996 12/19/1996 12/19/1996 12/19/1996 12/19/1996 12/19/1996	13:38 14:00 14:20 14:50 14:30	12/20/1996 12/20/1996 12/20/1996 12/20/1996 12/20/1996 12/20/1996

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
Project Coordinator

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

## ANALYTICAL RESULTS REPORT

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

Houston, TX 77251

01/03/1997

EPIC Job Number: 96.09138

Sample Number: 325683

Page 2

Project Description:
Job Description:

Enron/TWP Roswell Station

Sample Description:

SVE-2 Soil Cuttings

Parameter	Flag	Result	Units	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch Number	Run Batch Number	Reporting Limit
TPH-418.1 (Nonaqueous)		6750	ug/g	E-418.1		01/02/1997	bss		1263	10
PCB/PEST-NONAQ. (8080)					12/27/1996					
PCB-1016	EDL ,	<22	ug/kg	S-8080A		12/27/1996	tcc	244	555	22
PCB-1221	EDL	<22	ug/kg	S-8080A		12/27/1996	tcc	244	555	22
PCB-1232	EDL	<22	ug/kg	S-8080A		12/27/1996	tcc	244	555	22
PCB-1242	EDL	<22	ug/kg	S-8080A		12/27/1996	tcc	244	555	22
PCB-1248	EDL	<22	ug/kg	S-8080A		12/27/1996	tcc	244	555	22
PCB-1254	EDL	<22	ug/kg	S-8080A		12/27/1996	tcc	244	555	22
PCB-1260	EDL	<22	ug/kg	S-8080A		12/27/1996	tcc	244	555	22
SURR: DCB		96	% Rec	S-8080A		12/27/1996	tcc	244	555	50-120
SURR: TCX	SU	220	% Rec	S-8080A		12/27/1996	tcc	244	555	40-125

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

01/03/1997

EPIC Job Number: 96.09138 Sample Number: 325684

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Project Description:
Job Description: Enron/TWP Roswell Station

Sample Description: Monitor Well #16 Soil Cuttings

Parameter	Flag	Result	Units	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch Number	Run Batch Number	Reporting Limit
TPH-418.1 (Nonaqueous)		2550	ug/g	E-418.1		01/02/1997	bas		1263	10
PCB/PEST-NONAQ. (8080)					12/27/1996					
PCB-1016	EDL	<22	ug/kg	S-8080A		12/27/1996	tcc	244	555	22
PCB-1221	EDL	<22	ug/kg	S-8080A		12/27/1996	tcc	244	555	22
PCB-1232	EDL	<22	ug/kg	S-8080A		12/27/1996	tcc	244	555	22
PCB-1242	EDL	<22	ug/kg	S-8080A		12/27/1996	tcc	244	555	22
PCB-1248	EDL	<22	ug/kg	S-8080A		12/27/1996	tcc	244	555	22
PCB-1254	EDL	<22	ug/kg	S-8080A		12/27/1996	tcc .	244	555	22
PCB-1260	EDL	<22	ug/kg	S-8080A		12/27/1996	tcc	244	555	22
SURR: DCB		92	% Rec	S-8080A		12/27/1996	tcc	244	555	50-120
SURR: TCX		121	% Rec	S-8080A		12/27/1996	tcc	-244	555	40-125

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EPIC Job Number: 96.09138

Sample Number: 325685

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Project Description:

Job Description: Enron/TWP Roswell Station

Sample Description: Monitor Well #13 Soil Cuttings

Prep Analytical Batch Batch Reporting Parameter Flag Result Units Method Prepared Analyzed Analyst Number Number Limit TPH-418.1 (Nonaqueous) 3130 ug/g E-418.1 01/02/1997 1263 10

George Robinson ENRON CORPORATION Env. Affairs, Rm 3 AC 3142 P.O. Box 1188 Houston, TX 77251 01/03/1997

EPIC Job Number: 96.09138

Sample Number: 325686

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Project Description: Job Description:

Job Description: Enron/TWP Roswell Station

Sample Description: Soil Cuttings Clean Pile

Parameter .	Flag	Result	Units	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch Number	Run Batch Number	Reporting Limit
TPH-418.1 (Nonaqueous)		67	ug/g	E-418.1		01/02/1997	bss		1263	10
Arsenic, Trace ICP		9.5	ug/g	S-6010A	01/02/1997	01/02/1997	des	263	176	0.5
Barium, Trace ICP	BS	201	ug/g	S-6010A	01/02/1997	01/02/1997	des	263	176	0.1
Cadmium, Trace ICP		0.6	ug/g	S-6010A	01/02/1997	01/02/1997	des	263	176	0.1
Chromium, Trace ICP		7.1	ug/g	S-6010A	01/02/1997	01/02/1997	des	263	176	0.5
Lead, Trace ICP		11.0	ug/g	S-6010A	01/02/1997	01/02/1997	des	263	176	0.5
Mercury, CVAA		<0.02	ug/g	S-7470A		12/27/1996	bwb		1002	0.02
Selenium, Trace ICP		5.5	ug/g	S-6010A	01/02/1997	01/02/1997	des	263	176	0.5
Silver, Trace ICP		0.6	ug/g	S-6010A	01/02/1997	01/02/1997	des	263	176	0.2
PCB/PEST-NONAQ. (8080)					12/27/1996					
PCB-1016	EDL	<22	ug/kg	S-8080A	, ,	12/27/1996	tcc	244	555	22
PCB-1221	EDL	<22	ug/kg	S-8080A		12/27/1996	tcc	244	555	22
PCB-1232	EDL	<22	ug/kg	S-8080A		12/27/1996	tcc	244	555	22
PCB-1242	EDL	<22	ug/kg	S-8080A		12/27/1996	tcc	244	555	22
PCB-1248	EDL	<22	ug/kg	S-8080A		12/27/1996	tcc	244	555	22
PCB-1254	EDL	<22	ug/kg	S-8080A		12/27/1996	tcc	244	555	22
PCB-1260	EDL	<22	ug/kg	S-8080A		12/27/1996	tcc	244	555	22
SURR: DCB		88	% Rec	S-8080A		12/27/1996	tcc	244	555	50-120
SURR: TCX		100	% Rec	S-8080A		12/27/1996	tcc	244	555	40-125
VOA 8240 NONAQ.										
Acetone		<100	ug/kg	S-8240A		12/28/1996	mgc		465	100
Benzene		<5	ug/kg	S-8240A		12/28/1996	mgc		465	5
Bromodichloromethane		<5	ug/kg	S-8240A		12/28/1996	mqc		465	5
Bromoform		<5	ug/kg	S-8240A		12/28/1996	mgc		465	5
Bromomethane		<10	ug/kg	S-8240A		12/28/1996	mgc		465	10
2-Butanone (MEK)		<100	ug/kg	S-8240A		12/28/1996	mgc		465	100
Carbon disulfide		<100	ug/kg	S-8240A		12/28/1996	mgc		465	100
Carbon tetrachloride		<5	ug/kg	S-8240A		12/28/1996	mgc		465	5
Chlorobenzene .		<5	ug/kg	S-8240A		12/28/1996	mgc		465	5
Chloroethane		<10	ug/kg	S-8240A		12/28/1996	mgc		465	10
2-Chloroethylvinyl ether		<20	ug/kg	S-8240A		12/28/1996	mgc		465	20
Chloroform		<5	ug/kg	S-8240A		12/28/1996	mgc		465	5

BS - MS/MSD outside acceptance criteria, bench spike was 85-115%.

EDL - Elevated Detection Limit due to matrix interference.

George Robinson ENRON CORPORATION Env. Affairs, Rm 3 AC 3142 P.O. Box 1188 Houston, TX 77251 01/03/1997

EPIC Job Number: 96.09138

Sample Number: 325686

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Project Description:
Job Description:

Job Description: Enron/TWP Roswell Station

Sample Description: Soil Cuttings Clean Pile

								Prep	Run	
				Analytical	Date	Date		Batch	Batch	Reporting
Parameter	Flag	Result	Units	Method	Prepared	Analyzed	Analyst	Number	Number	Limit
Chloromethane		<10	ug/kg	S-8240A		12/28/1996	mgc		465	10
Dibromochloromethane		<5	ug/kg ug/kg	S-8240A		12/28/1996	mgc		465	5
1,1-Dichloroethane		<5	ug/kg ug/kg	S-8240A		12/28/1996	mgc		465	5
•			ug/kg ug/kg	S-8240A S-8240A		12/28/1996	•		465	5
1,2-Dichloroethane		. <b>&lt;</b> 5 <b>&lt;</b> 5	5. 5	S-8240A S-8240A		12/28/1996	mgc		465	5
1,1-Dichloroethene			ug/kg	S-8240A S-8240A		12/28/1996	mgc		465	5
trans-1,2-Dichloroethene		<5	ug/kg				mgc		_	=
1,2-Dichloropropane		<5	ug/kg	S-8240A		12/28/1996	mgc		465	5
cis-1,3-Dichloropropene		<5	ug/kg	S-8240A		12/28/1996	<i>m</i> gc		465	5
trans-1,3-Dichloropropene		<5	ug/kg	S-8240A		12/28/1996	mgc		465	5
Ethyl benzene		<5	ug/kg	S-8240A		12/28/1996	mgc		465	5
2-Hexanone		<50	ug/kg	S-8240A		12/28/1996	mgc		465	50
Methylene chloride		<5	ug/kg	S-8240A		12/28/1996	mgc		465	5
4-Methyl-2-pentanone (MIBK)		<50	ug/kg	S-8240A		12/28/1996	mgc		465	50
Styrene		<5	ug/kg	S-8240A		12/28/1996	mgc		465	5
1,1,2,2-Tetrachloroethane		<5	ug/kg	S-8240A		12/28/1996	mgc		465	5
Tetrachloroethene		<5	ug/kg	S-8240A		12/28/1996	mgc		465	5
Toluene		<5	ug/kg	S-8240A		12/28/1996	mgc		465	5
1,1,1-Trichloroethane		<5	ug/kg	S-8240A		12/28/1996	mgc		465	5
1,1,2-Trichloroethane		<5	ug/kg	S-8240A		12/28/1996	mgc		465	5
Trichloroethene		<5	ug/kg	S-8240A		12/28/1996	mgc		465	5
Vinyl acetate		<50	ug/kg	S-8240A		12/28/1996	mgc		465	50
Vinyl chloride		<10	ug/kg	S-8240A		12/28/1996	mgc		465	10
Xylenes, Total		<5	ug/kg	S-8240A		12/28/1996	mgc		465	5
SURR: 1,2-Dichloroethane-d4		116	% Rec	S-8240A		12/28/1996	mgc		465	70-121
SURR: Toluene-d8		117	% Rec	S-8240A		12/28/1996	mgc		465	81-117
SURR: 4-Bromofluorobenzene		102	% Rec	S-8240A		12/28/1996	mqc		465	74-121
		•				, .,	3-			- <del>-</del>

George Robinson ENRON CORPORATION Env. Affairs, Rm 3 AC 3142 P.O. Box 1188 Houston, TX 77251 01/03/1997

EPIC Job Number: 96.09138

Sample Number: 325687

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Project Description: Job Description:

Job Description: Enron/TWP Roswell Station

Sample Description: Purge Water MW-12 Drum 1

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		12/26/1996	zst		2679	2
Ethylbenzene		<2	ug/L	S-8020M		12/26/1996	zst		2679	2
Toluene		<2	ug/L	S-8020M		12/26/1996	zst		2679	2
Xylenes, Total		<2	ug/L	S-8020M		12/26/1996	zst		2679	2
SURR: a,a,a-TFT		99	% Rec	S-8020M		12/26/1996	zst		2679	60-125

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

01/03/1997

EPIC Job Number: 96.09138 Sample Number: 325688

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Project Description:
Job Description:

Enron/TWP Roswell Station

Sample Description: Purge Water MW-12 Drum 2

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		12/26/1996	zst		2679	2
Ethylbenzene		<2	ug/L	S-8020M		12/26/1996	zst		2679	2
Toluene		<2	ug/L	S-8020M		12/26/1996	zst		2679	2
Xylenes, Total		<2	ug/L	S-8020M		12/26/1996	zst		2679	2
SURR: a,a,a-TFT		97	% Rec	S-8020M		12/26/1996	zst		2679	60-125

### QUALITY CONTROL REPORT BLANKS

George Robinson ENRON CORPORATION Env. Affairs, Rm 3 AC 3142 P.O. Box 1188 Houston, TX 77251 01/03/1997

EPIC Job Number: 96.09138

Project Description: Job Description:

Job Description: Enron/TWP Roswell Station

Plank							Prep	Run
TPH-418.1 (Nonaqueous) Arsenic, Trace ICP			Blank		Reporting	Date	Batch	Batch
Arsenic, Trace ICP	Parameter	Flag	Result	Units	Limit	Analyzed	Number	Number
Arsenic, Trace ICP	TDU-419 1 (Nonameous)		<b>~</b> 10	na/a	10	01/02/1997		1263
Barium, Trace ICP	•						263	
Cadmium, Trace ICP       <0.1	•							
Chromium, Trace ICP	•							
Lead, Trace ICP       <0.5	·					•		
Mercury, CVAA         <0.02         ug/g         0.02         12/27/1996         1002           Selenium, Trace ICP         <0.5	·							
Selenium, Trace ICP       <0.5       ug/g       0.5       01/02/1997       263       176         Silver, Trace ICP       <0.2       ug/g       0.2       01/02/1997       263       176         EPA-8020 AQ (PRESERVED)       Ug/L       2       12/26/1996       2679       2679         Ethylbenzene       <2       ug/L       2       12/26/1996       2679         Ethylbenzene       <2       ug/L       2       12/26/1996       2679         Toluene       <2       ug/L       2       12/26/1996       2679         Xylenes, Total       <2       ug/L       2       12/26/1996       2679         PCB-16       <2       ug/L       2       12/26/1996       2679         PCB-18       <2       ug/L       2       12/26/1996       2679         PCB-18        <2       ug/L       2       12/26/1996       2679         PCB-18        <2       ug/kg       2       12/27/1996       244       555         PCB-121       <2       ug/kg       2       12/27/1996       244       555         PCB-1232       <2       ug/kg       2       12/27/1996       244       555 <td>•</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>263</td> <td></td>	•						263	
Silver, Trace ICP       <0.2       ug/g       0.2       01/02/1997       263       176         EPA-8020 AQ (PRESERVED)        Ug/L       2       12/26/1996       2679         Benzene       <2	• •						262	
EPA-8020 AQ (PRESERVED)         Benzene       <2	•							,
Benzene       <2       ug/L       2       12/26/1996       2679         Ethylbenzene       <2       ug/L       2       12/26/1996       2679         Toluene       <2       ug/L       2       12/26/1996       2679         Xylenes, Total       <2       ug/L       2       12/26/1996       2679         PCB-PEST-NONAQ. (8080)       V       V       V       V       V         PCB-1016       <22       ug/kg       22       12/27/1996       244       555         PCB-1221       <22       ug/kg       22       12/27/1996       244       555         PCB-1232       <22       ug/kg       22       12/27/1996       244       555         PCB-1242       <22       ug/kg       22       12/27/1996       244       555         PCB-1248       <22       ug/kg       22       12/27/1996       244       555         PCB-1254       <22       ug/kg       22       12/27/1996       244       555         PCB-1260       <22       ug/kg       22       12/27/1996       244       555         VOA 8240 NONAQ.	•		<0.2	ug/g	0.2	01/02/1997	263	176
Ethylbenzene       <2       ug/L       2       12/26/1996       2679         Toluene       <2			_		_			
Toluene       <2       ug/L       2       12/26/1996       2679         Xylenes, Total       <2       ug/L       2       12/26/1996       2679         PCB/PEST-NONAQ. (8080) <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td>				-				
Xylenes, Total     <2     ug/L     2     12/26/1996     2679       PCB/PEST-NONAQ. (8080)     Ug/kg     22     12/27/1996     244     555       PCB-1016     <22	-			_		-		
PCB/PEST-NONAQ. (8080)         PCB-1016       <22       ug/kg       22       12/27/1996       244       555         PCB-1221       <22	Toluene			-	2			_
PCB-1016       <22	Xylenes, Total		<2	ug/L	2	12/26/1996		2679
PCB-1221       <22	PCB/PEST-NONAQ. (8080)							
PCB-1232       <22	PCB-1016		<22	ug/kg	22	12/27/1996	244	555
PCB-1242       <22	PCB-1221		<22	ug/kg	22	12/27/1996	244	555
PCB-1248       <22	PCB-1232		<22	ug/kg	22	12/27/1996	244	555
PCB-1254       <22       ug/kg       22       12/27/1996       244       555         PCB-1260       <22       ug/kg       22       12/27/1996       244       555         VOA 8240 NONAQ.         Acetone       <100       ug/kg       100       12/28/1996       465         Benzene       <5       ug/kg       5       12/28/1996       465	PCB-1242		<22	ug/kg	22	12/27/1996	244	555
PCB-1260       <22       ug/kg       22       12/27/1996       244       555         VOA 8240 NONAQ.       Acetone       <100       ug/kg       100       12/28/1996       465         Benzene       <5       ug/kg       5       12/28/1996       465	PCB-1248		<22	ug/kg	22	12/27/1996	244	555
VOA 8240 NONAQ.         Acetone       <100	PCB-1254		<22	ug/kg	22	12/27/1996	244	555
Acetone <100 ug/kg 100 12/28/1996 465 Benzene <5 ug/kg 5 12/28/1996 465	PCB-1260		<22	ug/kg	22	12/27/1996	244	555
Benzene <5 ug/kg 5 12/28/1996 465	VOA 8240 NONAQ.							
5. J	Acetone		<100	ug/kg	100	12/28/1996		465
Bromodichloromethane <5 ug/kg 5 12/28/1996 465	Benzene		<5	ug/kg	5	12/28/1996		465
	Bromodichloromethane		<5	ug/kg	5	12/28/1996		465
Bromoform <5 ug/kg 5 12/28/1996 465	Bromoform		<5		5			
Bromomethane <10 ug/kg 10 12/28/1996 465	Bromomethane		<10		10			

All parameters should be less than the reporting limit.

### QUALITY CONTROL REPORT BLANKS

George Robinson ENRON CORPORATION Env. Affairs, Rm 3 AC 3142 P.O. Box 1188 Houston, TX 77251 01/03/1997

EPIC Job Number: 96.09138

Project Description: Job Description:

Job Description: Enron/TWP Roswell Station

						Prep	Run
		Blank		Reporting	Date	Batch	Batch
Parameter	Flag	Result	Units	Limit	Analyzed	Number	Number
			45	100	10/00/1006		
2-Butanone (MEK)		<100	ug/kg	100	12/28/1996		465
Carbon disulfide		<100	ug/kg	100	12/28/1996		465
Carbon tetrachloride		<5	ug/kg	5	12/28/1996		465
Chlorobenzene		<5	ug/kg	5	12/28/1996		465
Chloroethane		<10	ug/kg	10	12/28/1996		465
2-Chloroethylvinyl ether		<20	ug/kg	20	12/28/1996		465
Chloroform		<5	ug/kg	5	12/28/1996		465
Chloromethane		<10	ug/kg	10	12/28/1996		465
Dibromochloromethane		<5	ug/kg	5	12/28/1996		465
1,1-Dichloroethane		<5	ug/kg	5	12/28/1996		465
1,2-Dichloroethane		<5	ug/kg	5	12/28/1996		465
1,1-Dichloroethene		<5	ug/kg	5	12/28/1996		465
trans-1,2-Dichloroethene		<5	ug/kg	5	12/28/1996		465
1,2-Dichloropropane		<5	ug/kg	5	12/28/1996		465
cis-1,3-Dichloropropene		<5	ug/kg	5	12/28/1996		465
trans-1,3-Dichloropropene		<5	ug/kg	5	12/28/1996		465
Ethyl benzene		<5	ug/kg	5	12/28/1996		465
2-Hexanone		<50	ug/kg	50	12/28/1996		465
4-Methyl-2-pentanone (MIBK)		<50	ug/kg	50	12/28/1996		465
Methylene chloride		<5	ug/kg	5	12/28/1996		465
Styrene		<5	ug/kg	5	12/28/1996		465
1,1,2,2-Tetrachloroethane		<5	ug/kg	5	12/28/1996		465
Tetrachloroethene		<5	ug/kg	5	12/28/1996		465
Toluene		<5	ug/kg	5	12/28/1996		465
1,1,1-Trichloroethane		<5	ug/kg	5	12/28/1996		465
1,1,2-Trichloroethane		<5	ug/kg	5	12/28/1996		465
Trichloroethene		<b>&lt;</b> 5	ug/kg	5	12/28/1996		465
Vinyl acetate		<50	ug/kg	50	12/28/1996		465

All parameters should be less than the reporting limit.

# QUALITY CONTROL REPORT BLANKS

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

01/03/1997

EPIC Job Number: 96.09138

Project Description:
Job Description: Enron/TWP Roswell Station

Parameter	Flag	Blank Result	Units	Reporting Limit	Date Analyzed	Prep Batch Number	Run Batch Number
Vinyl chloride Xylenes, Total		<10 <5	ug/kg ug/kg	10 5	12/28/1996 12/28/1996		465 465

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

01/03/1997

96.09138 EPIC Job Number:

Project Description:
Job Description: Enron/TWP Roswell Station

		ccvs		ccvs	ccvs		Run
		True		Concentration	Percent	Date	Batch
Parameter	Flag	Concentration	Units	Found	Recovery	Analyzed	Number
TPH-418.1 (Nonaqueous)		120	ug/g	112	93.3	01/02/1997	1263
Arsenic, Trace ICP		1.00	ug/g	0.95	95.0	01/02/1997	176
Barium, Trace ICP		1.00	ug/g	0.96	96.0	01/02/1997	176
Cadmium, Trace ICP		1.00	ug/g	0.96	96.0	01/02/1997	176
Chromium, Trace ICP		1.00	ug/g	0.98 .	98.0	01/02/1997	176
Lead, Trace ICP		1.00	ug/g	0.98	98.0	01/02/1997	176
Mercury, CVAA		0.50	ug/g	0.54	108.0	12/27/1996	1002
Selenium, Trace ICP		1.00	ug/g	0.97	97.0	01/02/1997	176
Silver, Trace ICP		1.00	ug/g	0.98	98.0	01/02/1997	176
EPA-8020 AQ (PRESERVED)							
Benzene		20	ug/L	21	105.0	12/26/1996	2679
Ethylbenzene		20	ug/L	20	100.0	12/26/1996	2679
Toluene		20 .	ug/L	20	100.0	12/26/1996	2679
Xylenes, Total		60	ug/L	59	98.3	12/26/1996	2679
PCB/PEST-NONAQ. (8080)							
PCB-1016		160	ug/kg	168	105.0	12/27/1996	555
PCB-1260		200	ug/kg	203	101.5	12/27/1996	555
VOA 8240 NONAQ.							
Chloroform		20	ug/kg	19.68	98.4	12/28/1996	465
1,1-Dichloroethene		20	ug/kg	22.01	110.1	12/28/1996	465
1,2-Dichloropropane		20	ug/kg	18.68	93.4	12/28/1996	465
Ethyl benzene		20	ug/kg	20.87	104.4	12/28/1996	465
Toluene		20	ug/kg	19.30	96.5	12/28/1996	465
Vinyl chloride		20	ug/kg	18.87	94.3	12/28/1996	465

### QUALITY CONTROL REPORT MATRIX SPIKE/MATRIX SPIKE DUPLICATE

George Robinson ENRON CORPORATION Env. Affairs, Rm 3 AC 3142 P.O. Box 1188 Houston, TX 77251 01/03/1997

EPIC Job Number: 96.09138

Project Description:

Job Description: Enron/TWP Roswell Station

							Duplica	ite					
				Spike	Matrix	MS	Spike		MSD			Prep	Run
			Sample	Amount	Spike	Percent	Amount	MSD	Percent	MS/MSI	Date	Batch	Batch
Parameter	Flag	Units	Result	Added	Result	Recovery	Added	Result	Recovery	RPD	Analyzed	Number	Number
TPH-418.1 (Nonaqueous)		ug/g	67	500	646	115.8	500	635	113.6	1.9	01/02/1997		1263
Arsenic, Trace ICP		ug/g	9.5	100	101	91.5	100	102	92.5	1.1	01/02/1997	263	176
Barium, Trace ICP	BS	ug/g	201	1000	1186	98.5	1000	1184	98.3	0.2	01/02/1997		176
Cadmium, Trace ICP		ug/g	0.6	100	84.4	83.8	100	85.2	84.6	1.0	01/02/1997		176
Chromium, Trace ICP		ug/g	7.1	100	93.4	86.3	100	94.0	86.9	0.7	01/02/1997		176
Lead, Trace ICP		ug/g	11.0	100	100	89.0	100	101	90.0	1.1	01/02/1997		176
Mercury, CVAA		ug/g	<0.02	0.50	0.58	116.0	0.50	0.60	120.0	3.4	12/27/1996	203	1002
Selenium, Trace ICP		ug/g	5.5	100	101	95.5	100	102	96.5	1.0	01/02/1997	263	176
Silver, Trace ICP		ug/g	0.6	100	94.5	93.9	100	95.0	94.4	0.5	01/02/1997		176
EPA-8020 AQ (PRESERVED)		3. 3		-	-						,,,		2,0
Benzene		ug/L	<2	20	21	105.0	20	23	115.0	9.1	12/26/1996		2679
Ethylbenzene		ug/L	<2	20	20	100.0	20	22	110.0	9.5	12/26/1996		2679
Toluene		ug/L	<2	20	20	100.0	20	20	100.0		12/26/1996		2679
Xylenes, Total		ug/L	<2	40	40	100.0	40	46	115.0		12/26/1996		2679
VOA 8240 NONAQ.		-3, -									12, 20, 1330		2073
Benzene		ug/kg	<5	20.0	22.27	111.4	20.0	23.71	118.6	6.3	12/28/1996		465
Chlorobenzene		ug/kg	<5	20.0	24.70	123.5	20.0	23.04	115.2	7.0	12/28/1996		465
1.1-Dichloroethene		ug/kg	<5	20.0	25.17	125.9	20.0	23.55	117.8		12/28/1996		465
Toluene		ug/kg	<5	20.0	22.81	114.1	20.0	21.22	106.1		12/28/1996		465
Trichloroethene		ug/kg	<5	20.0	21.42	107.1	20.0	19.13	95.7		12/28/1996		465
12-01101000110110		-3, 1.9		20.0		10,.1	20.0	22.13	23.1	11.1	12/20/1990		*05

NOTE: The Quality Control data in this report reflects the batch in which your sample was prepped and/or analyzed.

The sample selected for QA may not necessarily be your sample.

BS - MS/MSD outside acceptance criteria, bench spike was 85-115%.

## **QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD**

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

01/03/1997

EPIC Job Number: 96.09138

Project Description:

Job Description: Enron/TWP Roswell Station

	Prep	Run	LCS		LCS	LCS	LCS	LCS	LCS		
	Batch	Batch	True		Conc	*	Dup Conc.	Dup	¥		Date
Analyte	No.	No.	Conc	Units	Found	Rec.	Found	% Rec	RPD	Flag	Analyzed
		1063	2000	1.	21.60						( (
TPH-418.1 (Nonaqueous)		1263	2660	ug/g	3160	118.8					01/02/1997
Arsenic, Trace ICP	263	176	100	ug/g	100	100.0					01/02/1997
Barium, Trace ICP	263	176	100	ug/g	101	101.0					01/02/1997
Cadmium, Trace ICP	263	176	100	ug/g	104	104.0					01/02/1997
Chromium, Trace ICP	263	176	100	ug/g	104	104.0					01/02/1997
Lead, Trace ICP	263	176	100	ug/g	105	105.0					01/02/1997
Mercury, CVAA		1002	0.50	ug/g	0.57	114.0					12/27/1996
Selenium, Trace ICP	263	176	100	ug/g	105	105.0					01/02/1997
Silver, Trace ICP	263	176	100	ug/g	100	100.0					01/02/1997
EPA-8020 AQ (PRESERVED)											
Benzene		2679	20	ug/L	20	100.0	20	100.0	0.0		12/26/1996
Ethylbenzene		2679	20	ug/L	20	100.0	20	100.0	0.0		12/26/1996
Toluene		2679	20	ug/L	18	90.0	19	95.0	5.4		12/26/1996
Xylenes, Total		2679	40	ug/L	41	102.5	43	107.5	4.8		12/26/1996
PCB/PEST-NONAQ. (8080)											
PCB-1260	244	555	0.05	ug/kg	0.052	104.0	0.037	74.0	33.6		12/27/1996
VOA 8240 NONAQ.											
Benzene		465	20.0	ug/kg	20.64	103.2					12/28/1996
Chlorobenzene		465	20.0	ug/kg	19.44	97.2					12/28/1996
1,1-Dichloroethene		465	20.0	ug/kg	11.56	57.8					12/28/1996
Toluene		465	20.0	ug/kg	18.19	91.0					12/28/1996
Trichloroethene		465	20.0	ug/kg	18.69	93.5					12/28/1996

LCS - Laboratory Control Standard

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



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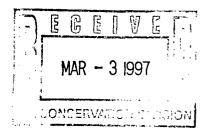


Enron Gas Pipeline Group

P. O. Box 1188 Houston, TX 77251-1188

February 28, 1997

Mr. William C. Olson Environmental Bureau New Mexico Oil Conservation Division 2040 S. Pacheco St. Santa Fe, New Mexico 87505



RE: Phase III Soil and Ground Water Assessment Plan Roswell Compressor Station Transwestern Pipeline Company

Dear Bill,

Enclosed for your review and approval is the Phase III Soil and Ground Water Assessment Plan for the subject facility. Included in this plan are provisions for routine ground water monitoring.

The content of this plan, in general, is identical to the Phase III soil and ground water assessment plan incorporated into the Corrective Action Plan (CAP) which Transwestern recently submitted to the NMED (a copy of which was also submitted to your office).

If you have any questions or comments regarding this work plan, please contact me at (713) 646-7644 or George Robinson at (713) 646-7327.

Sincerely,

Bill Kendrick

Manager, Environmental Affairs

Wendura L

gcr/BK

xc w/attachment:

Benito Garcia

NMED HRMB

# **ENRON**OPERATIONS CORP.

P. O. Box 1188 Houston, Texas 77251-1188 (713) 853-6161

February 13, 1997

Mr. William C. Olson Environmental Bureau New Mexico Oil Conservation Division 2040 S. Pacheco St. Santa Fe, New Mexico 87505

FEB 1 7 1993

RE: Corrective Action Plan

Roswell Compressor Station Transwestern Pipeline Company

Dear Bill,

Enclosed is a copy of the Corrective Action Plan (CAP) which Transwestern recently submitted to the NMED. Included in the CAP is a Phase III soil and ground water assessment plan to complete the delineation of affected soil and ground water at the site. Also included in the CAP is a plan for routine ground water monitoring. We are currently in the process of extracting the provisions of the assessment and monitoring plans and incorporating them into a separate document which will be submitted to your office for review and approval. We anticipate that this document will be delivered to your office by March 1, 1997.

If you have any questions regarding the enclosed report, please contact me at (713) 646-7644 or George Robinson at (713) 646-7327.

Sincerely,

Bill Kendrick

Manager, Environmental Affairs

Kenduch

gcr/BK

xc w/o enclosure:

Tim Gum

NMOCD Artesia District Office

Benito Garcia

**NMED HRMB** 

### STATE OF NEW MEXICO



## ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

### OIL CONSERVATION OIVISION

2040 S. PACHECO SANTA FE, NEW MEXICO 87505 (505) 827-7131

February 5, 1997

Mr. Bill Kendrick
ENRON Operations Corp.
P.O. Box 1188
Houston, Texas 77251-1188

RE: MONITOR WELL SAMPLING

ROSWELL COMPRESSOR STATION TRANSWESTERN PIPELINE CO.

Dear Mr. Kendrick:

Enclosed you will find the laboratory analytical results of the New Mexico Oil Conservation Division's (OCD) September 24, 1996 monitor well sampling at the ENRON Roswell Compressor Station.

If you have any questions, please call me at (505) 827-7154.

Sincerely,

William C. Olson Hydrogeologist

Environmental Bureau

xc w/enclosure:

Tim Gum, OCD Artesia District Supervisor

George Robinson, Cypress Engineering Services Benito Garcia, NMED Hazardous and Radioactive

Materials Bureau

## **Transwestern Pipeline Company**

TECHNICAL OPERATIONS
6381 North Main • Roswell, New Mexico 88201

JAN 2 3 1997

Chache the history

23

January 17,1997

Mr. Pat Sanchez
Oil Conservation Division
2048 Pacheco St.
Santa Fe, New Mexico 87502

Re: Land Ownership Status, Transwestern Pipeline Company Facilities

Dear Mr. Sanchez:

As per your request in January of this year, presented below are the land ownership designations for those Transwestern facilities which are covered under the Oil Conservation Division's (OCD) groundwater discharge plans:

<u>Facility</u>	Discharge Plan No.	Ownership
C/S No. 5, Thoreau	GW- 80	Transwestern
Bloomfield C/S	GW- 84	Transwestern
C/S No. 6, Laguna	GW- 95	Luguna Reservation
C/S No. 7, Mountainair	GW-110	Transwestern
C/S No. 8, Corona	GW- 89	Transwestern
C/S No. 9, Roswell	GW- 52	Transwestern
Portales (P-1) C/S	GW- 90	Transwestern
Carlsbad (Wt-1) C/S	GW-109	Transwestern
Monument Turbine C/S	GW-197	Transwestern
Eunice C/S	GW-113	Transwestern

Should you require additional information concerning the above listed facilities, contact the undersigned at our Roswell Technical Operations office at (505) 625-8022.

Sincerely,

Larry Campbell

Division Environmental Specialist

PERMIT

JAN 2 3 1997

Environ 2 2 2 2au Oil Conservation Division

## ACKNOWLEDGEMENT OF RECEIPT OF CHECK/CASH

I hereby acknowled	lge receipt of che	ck No. 10/2/95
or cash received o	10/10/0-	in the amount of \$ 690.00
Total Ved 0	10/12/93	in the amount of \$ 690.00
from <u>NRUN</u>	<u>)                                    </u>	
for Koswell	Como Sta	6W-052
Submitted by:		Date:
Submitted to ASD by	is Ton May	len Date: 10/13/95
Received in ASD by:		Date: 10 13/95
Filing Fee _	New Facility	Renewal X
Modification		Moneyal A
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Organization Code	521.07	Applicable Fy 96
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GORP	Houston, TX 77251-118	CHECK DATE 10-02-95
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		NOT VALID OVER \$5000.00 UNLESS COUNTERSIGNED
		FIELD DISBURSEMENT ACCOUNT
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Enron Corp. P. O. Box 1188 Houston, TX 77251-1188



CHECK DATE

# RECEIVED 105 00 OCT 1 2 1995 of CHECK Environmental Bureau Environmental Division Oil Conservation Division

OF 1 PAGE 1

10/02/95

**VENDOR NO:** DEMITTANCE STATEMENT

	INVOICE	INVOICE INVOICE NO.	PURCHASE ORDER	AMOUNT			
	DATE			GROSS	DISCOUNT	NET	
	10/2/95 MISC1100295			\$690.00			
	660.	-52					
	<u> </u>		<u> </u>	L., ,,	TOTAL		

DETACH AND RETAIN THIS STUB FOR YOUR RECORDS.

# **ENRON**OPERATIONS CORP.

P. O. Box 1188 Houston, Texas 77251-1188 (713) 853-6161

November 27, 1996

Mr. William C. Olson Environmental Bureau New Mexico Oil Conservation Division 2040 S. Pacheco St. Santa Fe, New Mexico 87505 RECEIVED

DEC 0 2 1996

Environmental Bureau
Oil Conservation Division

RE: Phase II Soil and Ground Water Assessment Report Roswell Compressor Station Transwestern Pipeline Company

Dear Bill,

Enclosed is one copy of the subject report. We are currently in the process of developing a Phase III Soil and Ground Water Assessment Plan to complete the delineation of affected soil and ground water at the site. In addition, we are in the process of developing a ground water monitoring plan for the site. We anticipate that both plans will be submitted to your office for review and approval no later than January 31, 1997.

If you have any questions regarding the enclosed report, please contact me at (713) 646-7644 or George Robinson at (713) 646-7327.

Sincerely,

Bill Kendrick

Manager, Projects Group

Kenduck

gcr/BK

xc w/enclosure:

Tim Gum

NMOCD Artesia District Office

Benito Garcia

NMED HRMB

### bc w/enclosure:

Larry CampbellTranswestern Pipeline Co.Roswell, NMLou SoldanoEOC LegalEB-4779Richard VirtueTaichert, Wiggins, Virtue, & NajjarSanta Fe, NMG. RobinsonCypress Engineering Services3AC-3142

# **ENRON**OPERATIONS CORP.

P. O. Box 1188 Houston, Texas 77251-1188 (713) 853-6161

October 31, 1996

Mr. William C. Olson Environmental Bureau New Mexico Oil Conservation Division 2040 S. Pacheco St. Santa Fe, New Mexico 87505

P.E: Phase II Soil and Ground Water Assessment Report
Transwestern Pipeline Company Roswell Compressor Station

Dear Bill,

Transwestern has completed the field activities which were outlined in the "Phase II Soil and Ground Water Assessment Plan" which was approved by your office. We are currently in the process of evaluating the information obtained in the course of these assessment activities and preparing a report which will summarize the results of field observations and laboratory analyses. We anticipate that a report for these activities will be submitted to your office by November 27, 1996.

If you have any questions or comments regarding this issue, please contact me at (713) 646-7644 or George Robinson at (713) 646-7327.

Sincerely,

Bill Kendrick

**Environmental Affairs** 

gcr/BK

xc:

Benito Garcia

Larry Campbell

George Robinson

NMED HRMB

TW Technical Operations

Cypress Engineering Services

Santa Fe, NM

Roswell, NM

3AC-3142

## IN THE DISTRICT COURT OF THE UNITED STATES FOR THE DISTRICT OF NEW MEXICO

FILED at Santa Fe NM

TRANSWESTERN PIPELINE COMPANY, a Delaware corporation,

SEP 02 1996

Plaintiff,

RULLINGTH COURT DISTRICT OF NEW MEXICO

v.

NEW MEXICO ENVIRONMENT DEPARTMENT, an agency of the State of New Mexico, and MARK E. WEIDLER, Secretary,

CIV 9 0 - 0 1 2 0 3 MV

Civil No.

Defendants.

LURENZO F. GARCIA

## COMPLAINT FOR DECLARATORY JUDGMENT AND PETITION FOR INJUNCTION

### JURISDICTIONAL ALLEGATIONS

- 1. Plaintiff, Transwestern Pipeline Company
  ("Transwestern"), is a corporation duly incorporated under the
  laws of the State of Delaware with its headquarters and principal
  place of business in Houston, Texas.
- 2. Transwestern owns and operates an interstate natural gas pipeline transmission system in the states of California, Arizona, New Mexico, Colorado, Texas and Oklahoma. Transwestern is subject to the federal Natural Gas Act (15 USC §717 et seq.), the federal Natural Gas Pipeline Safety Act of 1968 (49 USCA §1071 et seq.), the New Mexico Oil and Gas Act (§70-2-1 et seq. NMSA 1978), and the New Mexico Water Quality Act (§74-6-1 et seq. NMSA 1978). As part of its operations, Transwestern owns and operates a compressor station located approximately nine miles north of Roswell in Chaves County, New Mexico (the "Roswell

Compressor Station").

- 3. Defendant New Mexico Environment Department ("NMED") is the agency of the State of New Mexico primarily responsible for administering the federal Resource Conservation and Recovery Act, (42 U.S.C. § 6901 et seq.) ("RCRA"), the New Mexico Hazardous Waste Act ("New Mexico Act"), §74-4-1 et seq., NMSA 1978 and the regulations adopted pursuant to those acts.
- 4. Defendant Mark E. Weidler is sued in his individual capacity as the person who currently serves as the Secretary of NMED. Upon information and belief, Secretary Weidler resides in Santa Fe County, New Mexico.
- 5. An actual controversy exists among the parties concerning the applicability of RCRA, as applied through the New Mexico Act and the regulations adopted under those acts, to the remediation of contaminated soil and groundwater related to past operations of the Roswell Compressor Station.
- 6. The amount in controversy exceeds, exclusive of interest and costs, the sum of \$50,000.
- 7. Under 42 U.S.C. §6926, the United States Environmental Protection Agency ("EPA") may delegate its authority to administer and enforce RCRA to the NMED pursuant to the New Mexico Act and the regulations adopted thereunder.
- 8. NMED administers and enforces RCRA pursuant to a hazardous waste program authorized by the EPA on January 25, 1985. (50 Fed. Reg. 1515).

- 9. Effective January 2, 1996, the authority of NMED was expanded to include administration and enforcement of the Hazardous and Solid Waste Amendments of 1984 to RCRA, which includes authority to administer and enforce a RCRA corrective action program. (61 Fed. Reg. 2450).
- 10. Pursuant to its authority to administer and enforce its hazardous waste program, New Mexico has adopted by reference regulations of the EPA providing for the administration and enforcement of RCRA set forth in 40 CFR Parts 260, et seq. (the "RCRA Regulations"). (20 NMAC 4.1 §§ 101, 500, 600).
- 11. Transwestern's claims arise under federal law in that the actions of NMED and the Secretary exceed the authority delegated to them by USEPA under RCRA.
- 12. This Court has jurisdiction of the parties and of the controversy which is the subject matter of this action pursuant to 28 U.S.C. §§ 1331, 1332 and 1367, and has power to enter declaratory judgment relief pursuant to 28 USC §2201.

### GENERAL ALLEGATIONS

13. Prior to November 1983, maintenance activities at the Roswell Compressor Station involved the use and disposal at two surface impoundments of solutions containing mixtures of certain halogenated solvents used to clean equipment at the Roswell Compressor Station.

- 14. Prior to January 30, 1986, the waste halogenated solvents at issue were "listed" as hazardous under RCRA only if they were spent in 100%, commercial grade concentrations.
- 15. Effective January 30, 1996, the EPA promulgated new regulations, including the "solvent mixture rule" codified at 40 CFR §261.31(a) ("Mixture Rule") which classified as hazardous, for purposes of RCRA, mixtures or wastes containing solvents in 10 percent or greater concentration.
- 16. Except in limited circumstances not present in this case, the New Mexico Act authorizes NMED to implement RCRA by identifying and listing wastes as hazardous only if designated hazardous in the RCRA Regulations of EPA. § 74-4-4A(1), NMSA 1978.
- 17. One of the surface impoundments receiving small quantities of mixed solven'ts was backfilled before February, 1977, prior to adoption of regulations under RCRA concerning solvents; the second was closed in 1983, prior to the adoption of the Mixture Rule, and was backfilled in June, 1986.
- 18. Since Transwestern ceased using the surface impoundments, it has stored wastes generated from operations in above-ground storage tanks, and removed the stored wastes from the site.
- 19. The Roswell Compressor Station wastes that give rise to the dispute in this matter are those wastes deposited in the surface impoundments prior to adoption of the Mixture Rule.

- 20. RCRA applies to owners and operators of facilities that engage in the treatment, storage and disposal ("TSD") of hazardous waste identified or listed under RCRA. 42 U.S.C. § 6924.
- 21. NMED asserts that certain remediation activities related to two former surface impoundments at the Roswell Compressor Station must be undertaken pursuant to RCRA, because the past use of certain cleaning solutions containing halogenated solvents constitutes a release or "disposal" of "hazardous waste" under RCRA.
- 22. As the result of a voluntary investigation by
  Transwestern concluded in 1991, Transwestern apprised the NMED
  the fact that mixed solvents had been released into the surface impoundments at the Roswell Compressor Station.
- 23. Under the mistaken assumption that the solvent mixtures and other compounds constituted hazardous wastes, Transwestern submitted a RCRA Part A permit application at the request of NMED in January, 1993.
- 24. In February, 1993, NMED requested that Transwestern submit a closure plan in accordance with 40 CFR §265.112(a) of the RCRA Regulations and requested that a new or amended Part A application under RCRA be submitted. Transwestern submitted an amended Part A application in April, 1993.
- 25. In July, 1993, Transwestern delivered a closure plan to NMED as requested by NMED; that closure plan was rejected by NMED.

- 26. Beginning in May, 1994, Transwestern raised questions with NMED concerning the regulatory status of the surface impoundments at the Roswell Station. Transwestern subsequently met with NMED on a number of occasions in an attempt to negotiate with NMED on the remediation of soil and groundwater contamination at the Roswell Compressor Station, including, but not limited to, submitting two revised closure plans, the second of which was submitted on January 16, 1995, and was deemed incomplete by NMED in a letter from NMED to Transwestern dated April 28, 1995.
- 27. Additional investigation by Transwestern subsequent to filing the Part A Application and submittal of its closure plans led it to the conclusion that the Roswell Compressor Station is not a TSD facility because Transwestern could find no evidence it ever treated, stored or disposed of waste which was classified as hazardous under RCRA at the time of disposal.
- 28. Transwestern's additional investigation revealed that there was no evidence that 100 percent concentrations of the RCRA-listed solvents were discharged into the Roswell Compressor Station surface impoundments.
- 29. The additional investigation also revealed that the other contaminants identified in Transwestern's RCRA Part A application were neither listed nor properly classified as hazardous waste during the period the surface impoundments were in use. (40 CFR § 261.24).

- 30. On October 11, 1995, Transwestern submitted a letter to NMED presenting the results of Transwestern's additional investigation regarding the regulatory status of the facility, including Transwestern's belief that RCRA closure and post-closure requirements do not apply to the Roswell Compressor Station and documentation supporting Transwestern's position. A copy of the October 11, 1995 letter is attached to this complaint as Exhibit 1.
- 31. NMED, in a letter dated December 21, 1995, responded to Transwestern's October 11, 1995 letter by stating that the position of NMED is that closure is required pursuant to RCRA as implemented by the New Mexico Act. A copy of the December 21, 1995 letter is attached to this complaint as Exhibit 2.
- 32. On January 19, 1996, Transwestern withdrew its RCRA

  Part A application and all previously submitted closure plans. A

  copy of the January 19, 1996 letter of Transwestern withdrawing

  the application and closure plans is attached to this complaint

  as Exhibit 3.
- 33. Further written and oral negotiations between NMED and Transwestern followed, and on June 28, 1996, Transwestern submitted a proposed settlement agreement and alternative closure plan to NMED proposing a closure process and reiterating Transwestern's position that NMED had no jurisdiction under RCRA to demand a RCRA compliant closure plan.

- 34. On July 22, 1996, Mr. Larry Campbell, a Division Environmental Specialist employed by Transwestern, received a telephone call from Mr. Edward Kelly, Director of the NMED Water and Waste Management Division, informing Mr. Campbell that NMED planned to issue a compliance order against Transwestern which would include penalties of up to \$10,000 per day for alleged violations and that NMED would possibly seek criminal penalties against Transwestern personnel.
- 35. On August 9, 1996, Secretary Weidler sent a letter (the "August 9 Letter") to Transwestern rejecting the June 28, 1996 proposed alternative closure plan, describing it as, "completely unacceptable" and demanding resubmission of the RCRA Closure Plan that Transwestern had withdrawn on January 19, 1996 by September 3, 1996 and notifying Transwestern that NMED believes
  Transwestern may be subject to potential liability for civil penalties. A copy of the August 9, 1996 letter is attached to this complaint as Exhibit 4.
- 36. Laboratory analysis of tests conducted as part of Transwestern's investigation indicate that over 99.9% of the volume of the contaminants present at the Roswell Compressor Station surface impoundments are petroleum hydrocarbons, the remediation of which is under the jurisdiction of the New Mexico Oil Conservation Division ("OCD") pursuant to the New Mexico Oil and Gas Act, the New Mexico Water Quality Act, and the OCD Guidelines for Remediation of Leaks, Spills and Releases adopted under to \$70-2-12(B)22 NMSA 1978 ("OCD Remediation Guidelines").

- 37. Transwestern has submitted Phase I and Phase II remediation assessment plans to the OCD pursuant to the authority of OCD under the New Mexico Oil & Gas Act, and the New Mexico Water Quality Act, and the OCD Remediation Guidelines.
- 38. Transwestern is implementing a phased investigative plan and pilot remediation plan under the authority of the OCD pursuant to the New Mexico Oil and Gas Act, the New Mexico Water Quality Act and the OCD Remediation Guidelines to remediate soil and groundwater contamination at the Roswell Compressor Station.
- 39. The OCD has authority to approve the remediation of all of the wastes at issue in this matter, and closure under the authority of OCD as proposed by Transwestern will result in remediation of all such wastes, including halogenated solvent wastes.

### COUNT I

### FOR DECLARATORY JUDGMENT

- 40. An actual controversy arising under federal law exists between the parties as to whether NMED has authority to require Transwestern to comply with the closure and remediation requirements of RCRA, as implemented by the New Mexico Act, and the RCRA Regulations.
- 41. NMED does not have legal authority to require Transwestern to comply with RCRA closure requirements, as implemented by the New Mexico Act, or the RCRA Regulations,

because the Roswell Compressor Station is not a TSD facility.

- 42. Defendant Weidler has acted in excess of his authority as Secretary of NMED under federal and state law by attempting to require Transwestern to comply with RCRA closure requirements, as implemented by the New Mexico Act, and the RCRA Regulations.
- 43. RCRA, the New Mexico Act and RCRA Regulations do not apply retroactively to the mixed wastes that were released at the Roswell Compressor Station.
- 44. NMED's attempt to apply the Mixture Rule retroactively to the mixed wastes released at the Roswell Compressor Station prior to the effective date of the Mixture Rule creates a controversy arising under federal law in that application of the Mixture Rule to Transwestern violates RCRA, the New Mexico Act, and the RCRA Regulations.

#### COUNT II

### FOR PRELIMINARY INJUNCTION

- 45. The allegations of paragraphs 1 through 44 are incorporated by reference and realleged as though fully set forth.
- 46. NMED and Secretary Weidler are acting beyond their authority under RCRA and the New Mexico Act and contrary to law in attempting to apply RCRA closure and remediation requirements to Transwestern.

- 47. The actions of NMED and Secretary Weidler threaten Transwestern with irreparable harm by: (1) threatening to impose criminal and civil penalties on Transwestern should Transwestern refuse to comply with their demands by September 3, 1996; and (2) threatening to impose regulatory requirements that may conflict with the ongoing assessment and remediation activities under authority of the OCD and may make compliance with both sets of requirements impossible.
- 48. There is a substantial likelihood that Transwestern will succeed on the merits of the claims alleged herein.
- 49. NMED, Secretary Weidler, and the public interest will not suffer any prejudice by the issuance of an injunction because the OCD remediation; is ongoing and will include remediation of wastes at issue here and all contaminants of concern at the Roswell Compressor Station.

### WHEREFORE, Transwestern requests that the Court:

- 1. Declare that RCRA, the New Mexico Act, and the regulations adopted pursuant to those Acts do not apply to the soil and groundwater remediation at the Roswell Compressor Station:
- 2. Issue a permanent injunction enjoining NMED and Secretary Weidler from taking any enforcement action against Transwestern under RCRA, the New Mexico Act, or the RCRA Regulations; and

;1

3. Award Transwestern such other and further relief as the Court deems proper.

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October 11, 1995

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Transwestern Pipeline Company ("TW"), Roswell Compressor Station ("Roswell Station")

Dear Ms. Hughes:

This letter follows the August, 1995 meeting between representatives of TW and representatives of the New Mexico Environment Department ("NMED") concerning TW's Roswell Compressor Station. This confirms the information provided orally by TW to NMED at the meeting, and provides additional information as requested by the NMED.

### Summary of TW's Analysis

For legal, technical and policy reasons, the proper regulatory path for the closure of this site is through the New Mexico Oil Conservation Division ("OCD") rather than NMED. Tw remains committed to remedial goals that are fully protective of human health and the environment. Closure under the OCD authority will expedite the remediation and avoid the difficulties inherent under a RCRA Subtitle C closure, which is ill-suited for this type of facility. Moreover, closure under the OCD will not only achieve the same remediation goals as those prescribed under RCRA, but also place oversight authority with the state agency that has primary authority and expertise over remediation of soil and groundwater contaminated with petroleum hydrocarbons which comprise nearly all of the contaminants at the Roswell Station.

Since the meeting held between TW and NMED in March, 1995, TW has conducted a comprehensive review and analysis of the status of

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the Roswell Station and the regulatory approach imposed upon this facility. The results of TW's analysis show that the Part A application filed by TW in 1993 at the request of NMED contained fundamentally erroneous information and should be withdrawn. TW's investigation of its past practices at both the Roswell Station and other sites indicates that the wastes generated at the Roswell Station were never "hazardous" waste within the meaning of RCRA for a number of reasons. First, the wastes were in insufficient amounts or concentrations to qualify as hazardous under the regulations then in effect. Second, some of the materials released were not even classified as hazardous wastes under the then existing regulations. Finally, the application assumed the presence of certain wastes for which no evidence has been found to exist. Moreover, facility wastes were released during the time period prior to clarification of the "petroleum" exemption and were generally considered to be exempt pursuant to the petroleum exemption at the time of disposal.

Although the OCD is the appropriate oversight authority, TW can provide NMED with copies of documentation related to the OCD remediation process so that NMED may assure itself that the process is adequate to protect human health and the environment.

## General Description of Roswell Station Operations and Potential Waste Streams

The Roswell Station is located on approximately 80 acres of land just north of the City of Roswell. The natural gas compressor station has been in operation since 1960, and the station operates subject to a discharge plan issued by the OCD. TW filed a RCRA Part A application in January, 1993, at the request of NMED for the purpose of gathering information concerning closure of former surface impoundments at the facility.

TW's investigation indicates that two surface impoundments were used at the facility from 1960 through 1983. One of these surface impoundments was backfilled before February, 1977, and the second was closed in 1983 and backfilled in June, 1986. These surface impoundments were used by TW to contain pipeline condensate. The surface impoundments have been replaced by above-ground storage tanks. All wastes generated from operations are now stored in the surface tanks and then removed from the site and handled in such a manner so that no treatment, storage or disposal facility ("TSDF") status is triggered. Thus, the surface impoundments that are the subject of the Part A application and subsequent negotiations with NMED have not been in use since at least 1983 and have been replaced by above-ground storage facilities.

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TW's Roswell Station, like hundreds of similar facilities located within the State of New Mexico, serves the function of compressing natural gas for transportation through a pipeline. A secondary function of the Roswell Station is to serve as a location where pipeline liquids are removed from the pipeline. These liquids collect in low spots in the pipeline or in flow-through vessels designed to knock out the liquids ("scrubbers"). Liquids are also periodically removed from the pipeline during "pigging" operations. During pigging operations, plugs or "pigs" are shoved through the pipeline to push out the liquids. The liquids collected at a compressor station from "pigging" operations and the scrubbers are called pipeline liquids or "condensate".

In general, pipeline liquids are a mixture of produced water and petroleum hydrocarbons. The petroleum hydrocarbons are a mixture of predominantly aliphatic hydrocarbon compounds in the C6 to C14 range and a much smaller fraction (on the order of 10%) of aromatic hydrocarbon compounds. Historically, pipeline liquids were either placed in surface impoundments where the water and petroleum hydrocarbons presumably would evaporate, or the liquids were sold as a product where they would be blended with crude oil or fuel oil. Today, pipeline liquids are almost exclusively sold as a product and therefore are not classified as a waste.

In general, the only other potential waste streams which are of any significance at natural gas compressor stations are those generally associated with the operation and maintenance of internal combustion engines: used lube oil, oil filters, and wash water. The management of wastes produced at these facilities is regulated by the OCD, with the exception of hazardous wastes which are regulated by NMED. However, very little hazardous wastes, if any, are produced at natural gas compressor stations and therefore most compressor stations qualify as conditionally exempt small quantity generators under 40 C.F.R. §261.5.

## Description of Contaminants Used in the Past at the Roswell Station

The vast majority of the contaminants (greater than 99.9%) present at the former Roswell Station surface impoundments are petroleum hydrocarbons. For example, the attached lab data shows chlorinated compounds to be present in concentrations that total less than 20 mg/kg (ppm). See Laboratory Analysis and Summary (Attachment A). In the past, these contaminants were inadvertently-released into soil and groundwater as a result of waste management practices for pipeline liquids which were common at the time. However, the contaminants which have confused the issue of regulatory oversight at this site are the cleaning solutions (chlorinated solvent compounds) which were once used

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during maintenance activities but are no longer used at the Roswell Station. These compounds represent a small fraction of the contaminants present in soil and groundwater. The use of these small amounts of diluted chlorinated solvents prior to the present solvent rule which was adopted on December 31, 1985 does not give rise to RCRA jurisdiction.

Prior to the adoption of the present solvent rule in 1985, the waste generated by chlorinated solvent products containing less than 100% of a specific listed solvent were not "hazardous" within the meaning of RCRA. See 50 Fed. Reg. 53315. Solutions containing 100% solvent concentrations were not used at the Roswell Facility prior to the adoption of the solvent rule, so the rule does not apply to the generation of those wastes. After the adoption of the present solvent rule, there were no releases to the surface impoundments.

In a recent sample collected from the recovered hydrocarbon liquids tank, the concentration of chlorinated compounds was not even above laboratory detection levels. See Attachment A. In order to put this into perspective, if we were to assume that all potentially identifiable chlorinated volatile organic compounds were present at their respective detection levels, then the total concentration of these compounds in the recovered hydrocarbon liquid would be less than 0.000000023% of the liquid sample. Furthermore, during prior investigation activities conducted at the site, the highest concentration measured of 1,1,1-trichloroethane, the most prevalent solvent detected at the site, was just 19.0 mg/kg (or ppm). See Attachment A. This concentration is far below the RCRA 40 C.F.R 264 proposed Subpart S action level of 7000 mg/kg. 55 Fed. Reg. 30867

Thus, remediation efforts at this site will focus almost exclusively on the reduction of hydrocarbons in the form of total petroleum hydrocarbon ("TPH") concentrations in soil, the removal of phase separated hydrocarbon from above the uppermost aquifer, and a reduction in the concentration of BTEX compounds (benzene, toluene, ethylbenzene, and xylenes) present in groundwater. These objectives are typical of other oil and gas related remediation activities which the OCD staff work with on a daily basis. As NMED has no action level or cleanup criteria for TPH, NMED has already indicated to TW that the establishment of this criteria would be coordinated with the OCD.

#### Analysis of Applicability of RCRA to TW's Roswell Station

When TW originally submitted its RCRA Part A application at the request of NMED, both TW and NMED were under a series of erroneous assumptions with regard to the use of the former surface impoundments and the applicability of RCRA regulations.

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First, it was assumed that F-listed and D-listed wastes were placed in the surface impoundment. (These are wastes listed as hazardous under 40 C.F.R. §§261.24 and 261.31(a)).

There were five F-listed and D-listed waste codes listed in the RCRA Part A application. The inapplicability of RCRA regulations to each of these wastes is discussed below.

1. F001 (halogenated solvents) - Prior to the solvent rule which was finalized December 31, 1985, the F001 listing applied only to commercially pure grades of spent halogenated solvents used in degreasing (e.g. 100% trichloroethane). The 1985 solvent rule modified this definition to include spent solvent mixtures containing 10% or greater by volume of one or more of those solvents listed in F001, F002, F004, and F005.

The last remaining surface impoundment at the Roswell Station was taken out of service well before the 1985 solvent rule. See attached aerial photo dated June 19, 1983 showing surface impoundments no longer in use and storage tanks in place (Attachment B). Once storage tanks were placed into service, the surface impoundments were no longer used.

Furthermore, TW has conducted an investigation of past practices at the Roswell Station and similar facilities and has found no indication that a commercially pure grade spent halogenated solvent was either used at this facility during the applicable time frame or released to the impoundment, nor is it even likely that a commercially pure grade spent halogenated solvent would have been in use at the facility due to cost. A mixture of chlorinated solvents and non-chlorinated solvents (e.g., mineral spirits) is equally effective and much less costly. Laboratory reports of liquid solvent samples collected at other TW stations in 1989 show chlorinated solution concentrations of less than 100%. See the attached laboratory results (Attachment C). All available information shows no F001 wastes were ever disposed of at the Roswell Station.

TW has identified only two past uses of halogenated solvents at the Roswell Station. The first involved placing the solvents on rags for cleaning parts where the solvents were completely used or the unused "portion(s) were allowed to evaporate. The second identified use was for cleaning compressor engine crankcases during oil changes. In this case, some residual solvent may have remained in the crankcase

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entrained in residual lube oil (it is generally accepted that one can not remove 100% of the lube oil within an engine during an oil change). When new lube oil would be added to the crankcase, a solvent/oil mixture should result. Therefore, during subsequent oil changes the lube oil removed from the engine would contain very low concentrations of solvents. This is the likely mechanism by which solvent compounds were released to the former surface impoundments. Because the surface impoundments were removed from service prior to adoption of the present solvent rule, the pre-1985 releases of the solvents to these surface impoundments are not subject to RCRA jurisdiction.

- 2. F005 (non-halogenated solvents) Prior to the December 31, 1985 solvent rule, the F005 listing applied only to commercially pure grades of spent non-halogenated solvents (e.g., 100% toluene, methyl ethyl ketone, benzene, etc.). Again, TW's investigation of past practices found no information that these solvents, or their associated wastes, were used, stored, or disposed of at the Roswell Station. The available evidence suggests that the source of most of these types of compounds is the petroleum substances in the pipeline. Therefore, the F005 waste code should not have been included in the Part A application.
- D004 (arsenic) A small amount of arsenic (as trimethylarsine) is produced with natural gas from the Abo formation located just north of the Roswell Station. As a result, a small concentration of arsenic is occasionally present in pipeline liquid samples collected at the Roswell Station. Although production from this formation began in 1979, arsenic was not identified as a natural contaminant of the gas until 1987. Nor would TW or any other pipeline have any reason to suspect arsenic might be present in the gas since this is a very rare occurrence. The pipeline liquids tank was installed at the Roswell Station in 1983, therefore, the duration in which pipeline liquids potentially containing arsenic were released to the former surface impoundment was limited (approximately four years). The duration in which pipeline liquids may have been subject to evaluation by the EP Toxicity procedure for arsenic was even shorter, less than 3 years. Therefore, the evidence available to TW indicates that the EP Toxicity procedure was never used to assess the toxicity characteristic of the waste for arsenic since the presence of arsenic was unknown to TW. Even if the EP toxicity test had been conducted

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for arsenic, the results would most certainly have been below threshold levels.

Moreover, the concentrations currently measured are well below those levels at which the waste stream might fail the former EP Toxicity procedure used at the time in question. See Attachment A. Based on this information, TW has no information that wastes placed in the former surface impoundment at the Roswell Station were characteristically hazardous due to arsenic. Therefore, RCRA does not apply and the D004 waste code should not have been included on the Part A application.

- 4. D005 (barium) Although a small concentration of barium can be present in used engine oil collected at the Roswell Station, the concentration present is well below those levels where one might expect the waste stream to fail the former EP Toxicity procedure. 40 C.F.R. \$261.24. Furthermore, TW has no information that wastes placed in the former surface impoundment at the Roswell Station would have failed the EP Toxicity procedure for barium. Therefore, RCRA does not apply and the D005 waste code should not have been included on the Part A application. Finally, the level of barium at the surface impoundments is within the range of background levels.
- 5. D018 (benzene) Prior to the TC Rule effective March 29, 1990, benzene was not listed as a "Characteristic of EP Toxicity" contaminant. 55 Fed. Reg. 11798. Therefore, during the time frame that the surface impoundment was in use, there was no such thing as a D018 waste, and thus, RCRA does not apply and this waste code should not have been listed on the Part A application. Based upon all available evidence, the source of benzene was the petroleum substances in the pipeline.

The Part A Application and associated information also omitted information critical to a correct analysis of RCRA jurisdiction. For example, the "Treatment Process Design Capacity" indicated on the Part A application is 3,061,487 gallons. This figure was not based on the design capacity of the surface impoundment but rather on an inaccurate estimate of the volume of potentially affected groundwater. The estimated capacity of the surface impoundment now referred to as "Pit 1" (the only surface impoundment at the facility operated after November 19, 1980) is only 202,000 gallons. This revised estimate is based on more accurate information: dimensions obtained from historic air

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photos of the facility.

Information submitted with the application indicated that only a single surface impoundment was in use from August 1960 through June 1986. Information obtained from historic air photos and facility diagrams indicates that two impoundments were used at the facility between mid-1960 and December 1983. From a closer review of the information, it appears that the first impoundment at the facility was replaced by the second impoundment sometime prior to October 1972. Therefore, only the second impoundment was operated post RCRA. Furthermore, although the second impoundment was not back-filled until June 1986, wastes were not received by this impoundment after November 1983 when the final above ground storage tanks ("ASTs") were placed in service to collect the station's waste streams. See the attached chronology of events for a more detailed description of the time frame for installation of ASTs. (Attachment D). Completion reports dated June 25, 1982, November 18, 1983 and January 25, 1984 show that the final storage tank was installed and operational by November 11, 1983. See Attachment E. Aerial photos dated June 19, 1983 show surface impoundments and in-place storage tanks. See Attachment B.

## RCRA Does Not Apply Retroactively to Newly Classified Hazardous Wastes

As discussed above, the type of wastes found at the Roswell Station are almost solely petroleum hydrocarbons which do not fall under the definition of "hazardous" so as to invoke RCRA. All of the wastes listed on TW's RCRA Part A application should never have been listed: they were insufficient amounts or concentrations (e.g. arsenic, barium), the solvent products used were in diluted solutions of much less than 100% concentration, (e.g. F001 and F005 wastes), the waste category did not exist at the time the wastes were released, or they were not classified as wastes under RCRA at the time they were released (e.g., Benzene).

Any wastes that were not defined as hazardous when released do not fall under RCRA, unless characteristically hazardous and actively managed after the date the rule changed to classifying the waste as hazardous. See 54 Fed. Reg. 36592, 36597 (in narrowing the exemption for mineral processing wastes, the EPA stated that the new, narrower, definition would "not impose Subtitle C requirements on . . . wastes that were released prior to the effective date of today's rule, unless they are actively managed after the effective date"). EPA has a longstanding policy of not regulating wastes under RCRA that were released prior to the effective date of the rule governing those wastes. Id. EPA took the same position in 1992 when it added new wastes

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to the hazardous list. 57 Fed. Reg. 372841.

#### Inapplicability of RCRA Closure Requirements to Natural Gas Compressor Stations

Finally, TW and the NMED have also seen several examples which indicate the RCRA closure process simply does not apply to this type of location. One example is the provisions for "waste characterization" and volume estimates of remaining waste. 40 C.F.R. §264.552(e)(4)(iii). Because the last remaining surface impoundment was backfilled nearly ten years ago, there is no "waste" remaining to characterize.

Another example is that NMED required TW to analyze impacted soil samples for constituents listed under the "petroleum refining" category found within the RCRA Facility Investigation guidance documents. This list was selected for identifying potential waste constituents of concern because, of all the categories contained within the guidance, "petroleum refining" was the only category that was even remotely related to the operations at a natural gas compressor station. However, the operations at a natural gas compressor station, in particular a mainline transmission station such as the Roswell Station, are completely different from the operations at a petroleum refinery in both the types of activities involved and the materials utilized. petroleum refining, crude oil is refined into various fractions of petroleum, including gasoline, through the use of chemical and physical processes. By contrast, the operation of a natural gas compressor station is simple. At a compressor station, the pressure within a natural gas pipeline is increased so that natural gas may move though the pipeline. No chemical reactions are involved in the process, and far fewer waste streams are generated than at petroleum refineries. Most natural gas compressor stations are classified as either small quantity generators or conditionally exempt small quantity generators of hazardous waste.

<sup>&#</sup>x27;Much of TW's waste was also exempt from RCRA under the exemption for oil and gas set forth in 42 U.S.C. \$6921(b)(2)(A)(1983) (wastes associated with the exploration, development, or production of crude oil or natural gas). Before July 6, 1988, the scope of this exemption was unclear. At that point, the EPA finally issued guidelines for the exemption. 53 Fed. Reg. 25446. As TW used its last surface impoundment in 1983, the waste should fall under the exemption for oil and gas wastes. Any narrowing of that exemption as set forth on July 6, 1988, would not be retroactively applied to wastes deposited before that date unless they were actively managed. 54 Fed. Reg. at 36597.

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## OCD Oversight is Fully Protective of NMED and New Mexico Standards

Remediation activities at the Roswell Station can proceed much more rapidly and cost effectively for the state and TW with oversight authority by the OCD. This is true primarily because the OCD is not bound by the lengthy procedural requirements typical of RCRA closures. Attached to this letter are flow charts which depict two process scenarios for assessment and cleanup at the Roswell Station. See Attachment F. The first chart was prepared by NMED Hazardous Radicactive Materials Bureau ("HRMB") and presented to TW during a March, 1995 meeting with TW. The second chart illustrates the process TW has undergone for assessment and clean-up under the OCD oversight. The charts demonstrate the efficiency and relative straight forwardness of a clean-up plan pursuant to the OCD system as compared to the NMED system.

As the NMED has no action level or clean up criteria for total petroleum hydrocarbons (nearly 100% of the contaminants of concern) and is establishing this criteria in coordination with the OCD, there will be no difference between clean up criteria for soil established by NMED versus that under the OCD oversight. With respect to groundwater contamination, the OCD enforces the New Mexico Water Quality Control Commission ("NMWQCC") standards. The NMED HRMB uses the lower of the NMWQCC standards, the federal Safe Drinking Water Act MCLS, or the RCRA action level. The NMWQCC standards are as a rule the lowest, so cleanup under the OCD should satisfy NMED. The SDWA MCL standard for benzene is 5ug/1 which is lower than that used by the OCD. The NMWQCC standard is 10ug/1 but, considering the limited potential use of affected groundwater at the Roswell Station, from a practical standpoint, clean up to either standard is equally protective of human health and the environment.

## Clean Up Under OCD Authority is Consistent With Proposed RPA Regulations

There is new proposed authority for allowing remediation activities to proceed under the authority and oversight of the OCD. The EPA drafted new proposed regulations entitled the Hazardous Waste Identification Rule-Media ("the Proposed Rule") to be published in the Federal Register later this year. The Proposed Rule addresses the need to focus on results instead of inflexible compliance with rules. The Proposed Rule recognizes that one-time cleanup of contaminated media is best accomplished with a plan tailored to cleanup. Under the Proposed Rule, a Remediation Management Plan ("RMP") will take the place of the current post-closure permitting requirements. See Proposed Rule at 63 et. seg. It will achieve closure in a much shorter time

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frame and avoid difficulties that arise in attempting to work within the framework of RCRA Subtitle C closure.

The closure requirements contained in 40 C.F.R. Part 265 Subpart G were developed with the clear intention that they would apply to closure of waste management units of operational TSDFs where hazardous wastes were intentionally treated, stored, or disposed (not a site such as Roswell which was never operated as a TSDF). This problem is well recognized by EPA as evidenced by their recent efforts to create a distinction between management of contaminated media during remediation activities and "as generated" hazardous wastes. Proposed Rule at 7. In the proposed rule, the EPA recognizes that current regulations are not tailored toward purely remedial activity which is what is involved at the Roswell Station. Proposed Rule at 7. The EPA recognizes that there are fundamental differences in the objectives and incentives of prevention oriented programs like RCRA and remediation oriented programs like the proposed rule. Proposed Rule at 6. Remediation activity is highly site-specific and not as amenable to stringent, inflexible standards. Id. at

#### TW's Proposed Regulatory Path

Although it is obvious that a compressor station was never intended nor contemplated to be a TSDF, much time and energy has been spent in an attempt to apply TSDF standards to the Roswell Station. It is unfortunate that both TW and NMED have devoted almost all of their efforts to the closure of the location rather than scrutinizing the circumstances under which these substances of concern were released and the regulatory framework that was in effect at the time of the releases. The Proposed Rule provides a solution, and should be used by NMED as a guide to resolving the regulatory issues presented in this situation.

Remediation activities at the Roswell Station must proceed under the authority of the OCD for three reasons. First and most significantly, the waste should never have been classified as hazardous under RCRA; therefore, RCRA simply does not apply. Second, the OCD is experienced in overseeing the cleanup of sites with similar petroleum hydrocarbon contamination and the OCD and TW have a proven history of cooperation in accomplishing efficient, timely cleanup. Third, allowing remediation activities to proceed under the authority of the OCD is the best regulatory policy because RCRA is prevention oriented not remediation oriented.

Within this framework, TW proposes to withdraw its Part A application, and negotiate an appropriate procedure with NMED and the OCD to keep NMED informed about the OCD remediation.

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If you have any questions or need additional information, please contact me at (505) 983-6101.

Very truly yours,

TAICHERT, WIGGINS, VIRTUE & NAJJAR

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MARK E. WEIDLER SECRETARY

EDGAR T. THORNTON, III
DEPUTY SECRETARY

December 21, 1995

Mr. Richard Virtue, Esq.
Taichert, Wiggins, Virtue & Najjar
119 East Marcy Street, Suite 100
P.O. Box 4265
Santa Fe, New Mexico 87502-4265

Re: Transwestern Pipeline Company (TPC)

Dear Mr. Virtue:

This letter responds to the position of Transwestern Pipeline Company (TPC) that the New Mexico Environment Department (NMED) is not the proper regulatory authority for closure of the surface impoundments at the Roswell Compressor Station. We have carefully considered your position and have concluded that at this time closure is required pursuant to the New Mexico Hazardous Waste Act (HWA). Further, as discussed below, we do not believe that closure under the authority of the New Mexico Oil Conservation Division (OCD) will achieve the same remediation goals or adequately protect human health and the environment.

As you are aware, TPC submitted three RCRA closure plans for the surface impoundments in question which NMED staff concluded were either incomplete or inaccurate. (see attached letters from NMED regarding Notices of Deficiencies). Based upon the available information, we must conclude that hazardous wastes were disposed of at the facility during the time period in question (including 100% 1,1,1 TCA) and that proper closure can only be accomplished pursuant to the HWA's requirements. Further, there is substantial ground water contamination at this site. Solvents have been detected at 22,400 times the New Mexico Water Quality Control Commission (WQCC) standard for 1,1 DCA and three times the WQCC standard for 1,1,1 TCA.

As a technical, legal or practical matter, we do not agree that cleanup under OCD standards would be equally protective of human health and the environment. TPC's position appears to be premised upon an assumption that no hazardous wastes or constituents were

EXHIBIT 2 Page 1 of 2 disposed of at the surface impoundments in question. As stated, the facts of this site do not support this conclusion. Contrary to your position, there are significant differences between the cleanup criteria and goals under OCD and NMED. For example, cleanup required by NMED under the HWA involves health based standards and other media not addressed by OCD. Further, OCD does not oversee solvent plume characterization and cleanup of hazardous waste sites or other RCRA concerns.

This letter will confirm that NMED intends to issue the modified closure plan for public comment no later than January 31, 1996. If you have any additional information which supports the position of TPC, we would appreciate receiving it as soon as possible and prior to January 31, 1996. Specifically, we request any information such as manifests or other documentation which demonstrate that no hazardous wastes were disposed of at this facility. Further, we would appreciate any area photos of the surface impoundments taken during the time period in question.

If we do not receive any further information from TPC, we will proceed with public comment to avoid any further delay with cleanup at this site. We are confident that proper cleanup may be achieved through the regulatory oversight of NMED with, as necessary, the coordination of OCD. If you have any questions, do not hesitate to call.

Sincerely,

SUSAN M. McMICHAEL

Assistant General Counsel

Enclosure(s)

cc: Ed Kelley

Benito Garcia

Barbara Hoditscheck

Ron Kern

Bill Kendrick

Rodger Anderson

David Neleigh, EPA Region 6 (PD-N)

## Transwestern Pipeline Company

J. A. "Joe" Hulscher Vice President Operations

Summit Office 3ldg., Ste. 250 4001 Indian School Rd., NE Albuquerque, NM 87110 Direct (505) 260-4001 Houston (713) 853-7794

January 19, 1996

#### VIA FEDERAL EXPRESS

Mr. Mark E. Weidler
Cabinet Secretary
New Mexico Environment Department
Harold Runnels Bldg.
P. O. Box 26110
Santa Fe, NM 87502

Transwestern Pipeline Company-Roswell Compressor Station - Notice of Withdrawal of RCA Part A Application and Closure Plans

Dear Mr. Weidler:

In January, 1993, Transwestern Pipeline Company ("Transwestern") filed a RCRA Part A permit application with the State of New Mexico Environment Department ("NMED") Hazardous and Radioactive Materials Bureau ("HRMB") at the request of the HRMB. After extensive investigation and analysis, Transwestern has recently concluded that much of the information included on the RCRA Part A Permit application form was incorrect. Furthermore, Transwestern has determined that the underlying factual and legal assumptions upon which the application was submitted were also incorrect.

By this letter, Transwestern is formally notifying the NMED that the RCRA Part A permit application submitted for the Roswell Compressor Station is withdrawn. In addition, Transwestern is formally notifying the NMED that all closure plans submitted to the NMED HRMB for this facility are withdrawn, because the Roswell Compressor Station is not subject to RCRA closure requirements and will be remediated under the regulatory authority of the New Mexico Oil Conservation Division ("OCD").

Attached to this letter is a brief description of why the RCRA Part A permit application was originally submitted and why the application form contained incorrect information. Also included is a detailed description of the inaccuracies included in the application form and the reasons for the withdrawal.

Mr. Mark Weidler January 19, 1996 Page 2

The following summary of the history of this matter will be of additional assistance in understanding the basis for Transwestern's decision to withdraw the RCRA Part A application and closure plans.

During the latter half of 1991, Transwestern implemented a purely voluntary, self-directed subsurface investigation in the vicinity of a former surface impoundment at the Roswell Compressor Station. In the course of this investigation, Transwestern discovered the presence of certain organic compounds contained in soil and ground water which potentially could have originated from an F-listed RCRA regulated waste. In February 1992, Transwestern brought the results of the initial investigation to the attention of the NMED HRMB and the OCD in an effort to insure that New Mexico regulatory authorities were apprised of the situation and to initiate the proper regulatory process for the continued assessment and remediation of affected soil and ground water. A number of meetings were held between the concerned parties. Subsequently, the NMED HRMB requested that Transwestern file a RCRA Part A permit application as the initial step toward a RCRA closure. That application was submitted in January, 1993. Since then, Transwestern has worked diligently to proceed with the assessment and remediation of the site within the RCRA framework at considerable cost. Unfortunately, until recently, Transwestern's efforts have been entirely focused on closure rather that on whether or not closure under both OCD and RCRA framework was appropriate.

Early last year Transwestern engaged the services of local counsel to analyze the regulatory path that Transwestern had been following. An initial review indicated that Transwestern had made several erroneous assumptions concerning both the operational history at the site and the applicability of RCRA regulations that have been adopted by the New Mexico Environmental Improvement Board pursuant to the New Mexico Hazardous Waste Act. After consulting with the NMED HRMB and apprising them of the situation, Transwestern conducted a complete review of the matter. The review confirmed the inaccuracy of many of Transwestern's underlying assumptions and verified the lack of any evidence that "hazardous waste" within the meaning of the New Mexico Hazardous Waste Act Regulations was disposed of at the Roswell Compressor Station.

At the completion of the review, Transwestern submitted a detailed letter and considerable supporting documentation to the NMED Office of General Counsel presenting Transwestern's position on the matter. All available evidence indicates that for legal, technical, and practical reasons, the proper regulatory avenue for the closure of this site is through the OCD rather than the NMED HRMB.

On December 21, 1995 the NMED Office of General Counsel responded to our October 11, 1995 letter. The response did not present any additional facts or legal analysis that would change the results of Transwestern's extensive factual investigation and legal review. Further, the response highlighted a persistent trend of disproportionate concern over the potential threat posed by conditions at the site. After reviewing the response, it became clear that the only appropriate action was to withdraw the RCRA Part A application and closure plan.

Transwestern requests that you and your staff meet with representatives of Transwestern at your earliest convenience for the purpose of answering any questions you or your staff may have. Transwestern has previously sugested that, at the OCD's discretion, the NMED could be allowed limited oversight of the closure in order that any NMED concerns can be satisfied. Although these suggestions have been rejected by the NMED, Transwestern is still willing to consider approaching the OCD in this manner.

If you have any questions or comments, please contact Lou Soldano, ENRON Operations Corp. Legal, at (713) 853-7237.

Sincerely,

Joe Hulscher

Vice President, Operations

Fre Huleder por

Transwestern Pipeline Company

XC:

Lou Soldano, Esq.

ENRON Operations Corp. Legal

Frank Smith, Esq.

ENRON Corp. Legal

Dave Nutt, Esq.

ENRON Corp. Legal ENRON Operations Corp.

Bill Kendrick

Environmental Affairs

Roger Anderson

New Mexico Oil Conservation Division

Ed Kelley

NMED Hazardous and Radioactive

Materials Bureau

Susan McMichaels, Esq.

NMED (Via Hand Delivery)

Richard L. C. Virtue, Esq.

Lirs/Weidler i. doc





GARY E JOHNSON

ENVIRONMENT DEPARTMENT Harold Runnels Building 1190 St. Francis Drive, P.O. Box 26110 Santa Fe. New Mexico 87502

OFFICE OF GENERAL COUNSEL PHONE: 505-827-2990 PAX: 505-827-1628 MARK E. WEIDLER SECRETARY

EDGAR 1. THURNTON, III

August 9, 1996

Joe Hulscher, Vice President Transwestern Pipeline Company 4001 Indian School Rd. N.E. Albuquerque, New Mexico 87110

RE: PROPOSED SETTLEMENT AGREEMENT AND ALTERNATE CLOSURE PLAN

Dear Mr. Hulscher:

This letter is in response to your letter and proposed settlement agreement date June 28, 1996. Following our March meeting, I requested in writing that Transwestern Pipeline Company (TPC) submit the technical closure plan which our staff had approved or an acceptable alternate to that closure plan as required by law. Upon request from TPC, I provided TPC with an extension to submit entitled "Settlement Agreement and Alternative Closure Plan." We cannot recall any discussion authorizing TPC to undertake the drafting of a "settlement agreement." Further, we do not believe the Texas Risk Reduction Standard referred to in the proposal is appropriate under the circumstances.

Nevertheless, our staff has reviewed your proposal and regrettably, has concluded that it is completely unacceptable and not in compliance with the regulatory requirements under either the New Mexico Hazardous Waste Act (HWA) or the Resource Conservation and Recovery Act (RCRA). We fully expected a technical closure plan substantially similar to the plan which NMED approved pursuant to the HWA. To the extent that TPC has chosen to apply for approval of closure and remediation with the Oil Conservation Division (OCD), we would like to clarify that OCD has neither authority nor jurisdiction to approve closure or cleanup of hazardous waste disposal sites. Our conclusion that TPC must close and remediate under the HWA and RCRA is based upon our environmental expertise and fully supported by the United States Environmental Protection Agency (see attached letter).

For these reasons, we would hope that TPC determines to avoid unnecessary future delay and costs by coming into compliance with the law as soon as possible. We hereby request that TPC resubmit the previously developed closure plan that was proposed for

EXHIBIT 4
Page 1 of 2

Joe Hulscher, Vice President August 9, 1996 Page 2

approval and public comment which was withdrawn by TPC on January 19. 1996. This letter also serves to notify TPC that it may be liable for civil penalties under the HWA and RCRA for each day that it determines to fail to comply with the requirements to submit a closure plan. If we do not receive the submittal of the previously withdrawn closure plan prior to September 3, 1996, we will take appropriate actions.

If you wish to discuss this matter in more detail, please contact either me or Ed Kelley to arrange a meeting. We look forward to hearing from Pou.

Sincerely,

MARK É. WEIDLER

cc: Robert E. Hannesschlager, USEPA
Jennifer Salisbury, Secretary, Energy & Minerals
Richard Virtue, Esq.
Leu Saldane, Esq.

Lou Soldano, Esq. Bill Kendrick, Enron Operations Corp.

Ed Kelley, NMED Benito Garcia, NMED

Susan McMichael, OGC NMED

AEN I.D. 609361

September 30, 1996

NM OIL CONSERVATION DIVISION 2040 SOUTH PACHECO SANTA FE, NM 87505

Project Name

**ENRON-ROSWELL** 

**Project Number** 

(none)

Attention: BILL OLSON

On 9/25/96 American Environmental Network (NM), Inc. (ADHS License No. AZ0015), received a request to analyze **aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

If you have any questions or comments, please do not hesitate to contact us at (505)344-3777.

Kimberly D. McNeill Project Manager

MR: mt

Enclosure

H. Mitchell Rubenstein, Ph. D. General Manager

CLIENT	: NM OIL CONSERVATION DIVISION	AEN I.D.	: 609361
PROJECT#	: (none)	DATE RECEIVED	: 9/25/96
PROJECT NAME	: ENRON-ROSWELL	REPORT DATE	: 9/30/96
AEN			DATE
ID. #	CLIENT DESCRIPTION	MATRIX	COLLECTED
01	(MW-12) 9609241200	AQUEOUS	9/24/96
02	(MW-14) 9609241425	AQUEOUS	9/24/96
03	(MW-17) 9609241620	AQUEOUS	9/24/96
04	TRIP BLANK 9609231410	AQUEOUS	9/23/96

#### GAS CHROMOTOGRAPHY RESULTS

TEST

: PURGEABLE HALOCARBONS / AROMATICS (EPA 8010/8020)

CLIENT

: NM OIL CONSERVATION DIVISION

AEN I.D.: 609361

PROJECT#

: (none)

PROJECT NAME

: ENRON-ROSWELL

PROJEC	INAME	. ENKON-KOSV	YCLL				
SAMPLE				DATE	DATE	DATE	DIL.
ID.#	CLIENT I.D.		MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
01	(MW-12) 9609241200		AQUEOUS	9/24/96	NA	9/27/96	1
02	(MW-14) 9609241425		AQUEOUS	9/24/96	NA	9/27/96	1
03	(MW-17) 9609241620		AQUEOUS	9/24/96	NA	9/27/96	1
PARAME		DET. LIMIT	UN	IITS	01	02	03
BENZEN		0.5	U	3/L	590 D(50)	< 0.5	< 0.5
BROMOD	DICHLORMETHANE	0.2		3/L	< 0.2	< 0.2	< 0.2
BROMOF		0.5		3/L	< 0.5	< 0.5	< 0.5
BROMON		1.0		3/L	< 1.0	< 1.0	< 1.0
	TETRACHLORIDE	0.2		3/L	< 0.2	< 0.2	< 0.2
	BENZENE	0.5		G/L	< 0.5	< 0.5	< 0.5
CHLORO		0.5		3/L	< 0.5	< 0.5	< 0.5
CHLORO		0.5 1.0		3/L 3/L	< 0.5 < 1.0	< 0.5 < 1.0	< 0.5 < 1.0
	METHANE OCHLOROMETHANE	0.2		3/L 3/L	< 0.2	< 0.2	< 0.2
	OMOETHANE (EDB)	0.2		3/L 3/L	< 0.2	< 0.2	< 0.2
	LOROBENZENE	0.5		3/L	< 0.5	< 0.5	< 0.5
	LOROBENZENE	0.5		3/L	< 0.5	< 0.5	< 0.5
	LOROBENZENE	0.5		3/L	< 0.5	< 0.5	< 0.5
•	LOROETHANE	0.3		3/L	< 0.3	< 0.3	< 0.3
•	LOROETHANE (EDC)	0.5		3/L	< 0.5	< 0.5	< 0.5
	LOROETHENE `	0.2		3/L	< 0.2	< 0.2	< 0.2
cis-1,2-DI	CHLOROETHENE	0.2	U	3/L	< 0.2	< 0.2	< 0.2
trans-1,2-l	DICHLOROETHENE	1.0	U	3/L	< 1.0	< 1.0	< 1.0
•	LOROPROPANE	0.2		3/L	< 0.2	< 0.2	< 0.2
	CHLOROPROPENE	0.2		3/L	< 0.2	< 0.2	< 0.2
	DICHLOROPROPENE	0.2		3/L	< 0.2	< 0.2	< 0.2
ETHYLBE		0.5		3/L	< 0.5	< 0.5	< 0.5
	t-BUTYL ETHER	2.5		3/L	< 2.5	< 2.5	< 2.5
	ENE CHLORIDE	2.0		3/L	< 2.0	< 2.0	< 2.0
	ETRACHLOROETHANE HLOROETHENE	0.5 0.5		3/L 3/L	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5
TOLUENE		0.5 0.5		3/L 3/L	< 0.5	< 0.5 < 0.5	< 0.5 < 0.5
	- CHLOROETHANE	1.0		3/L 3/L	< 1.0	< 1.0	< 1.0
	CHLOROETHANE	0.2		3/L	< 0.2	< 0.2	< 0.2
	ROETHENE	0.3		3/L	< 0.3	< 0.3	< 0.3
	ROFLUOROMETHANE	0.2		3/L	< 0.2	< 0.2	< 0.2
VINYL CH	ILORIDE	0.5	UC	3/L	< 0.5	< 0.5	< 0.5
TOTAL X	YLENES	0.5	UC	S/L	54	< 0.5	< 0.5
SURROG	ATF.						
	CHLOROMETHANE (%)				88	112	97
	ATE LIMITS	(73 - 117)					
	ROTOLUENE (%)	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			83	108	86
	ATE LIMITS	(69 - 117)					-

CHEMIST NOTES:

D(50)=DILUTED 50X, ANALYZED 9/27/96.

#### GAS CHROMOTOGRAPHY RESULTS

TEST : PURGEABLE HALOCARBONS / AROMATICS (EPA 8010/8020)

CLIENT : NM OIL CONSERVATION DIVISION AEN I.D.: 609361

PROJECT # : (none)

PROJECT NAME : ENRON-ROSWELL

SAMPLE			DATE	DATE	DATE	DIL.
ID. # CLIENT I.D.		MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
04 TRIP BLANK 9609231410	<del></del>	AQUEOUS	9/23/96	NA	9/27/96	1
PARAMETER	DET. LIMIT	UN	ITS	04		
BENZENE	0.5	UC	3/L	< 0.5		
BROMODICHLORMETHANE	0.2	UC	3/L	< 0.2		
BROMOFORM	0.5	UC	3/L	< 0.5		
BROMOMETHANE	1.0	UC	3/L	< 1.0		
CARBON TETRACHLORIDE	0.2	UC	3/L	< 0.2		
CHLOROBENZENE	0.5	UC	3/L	< 0.5		
CHLOROETHANE	0.5	UG	5/L	< 0.5		
CHLOROFORM	0.5	UG	3/L	< 0.5		
CHLOROMETHANE	1.0	UG	3/L	< 1.0		
DIBROMOCHLOROMETHANE	0.2	UC	3/L	< 0.2		
1,2-DIBROMOETHANE (EDB)	0.2	UG	∋/L	< 0.2		
1,2-DICHLOROBENZENE	0.5	ŲĆ	3/L	< 0.5		
1,3-DICHLOROBENZENE	0.5	UG	3/L	< 0.5		
1,4-DICHLOROBENZENE	0.5	ŲĠ	S/L	< 0.5		
1,1-DICHLOROETHANE	0.3	ŲĠ	3/L	< 0.3		
1,2-DICHLOROETHANE (EDC)	0.5	UG	3/L	< 0.5		
1,1-DICHLOROETHENE	0.2	UG	S/L	< 0.2		
cis-1,2-DICHLOROETHENE	0.2	UG	S/L	< 0.2		
trans-1,2-DICHLOROETHENE	1.0	ŲĠ	S/L	< 1.0		
1,2-DICHLOROPROPANE	0.2	UG	3/L	< 0.2		
cis-1,3-DICHLOROPROPENE	0.2	UG	3/L	< 0.2		
trans-1,3-DICHLOROPROPENE	0.2	UG	3/L	< 0.2		
ETHYLBENZENE	0.5	UG	S/L	< 0.5		
METHYL-t-BUTYL ETHER	2.5	UG	S/L	< 2.5		
METHYLENE CHLORIDE	2.0	UG	<b>3/L</b>	< 2.0		
1,1,2,2-TETRACHLOROETHANE	0.5	UG	<b>3/L</b>	< 0.5		
TETRACHLOROETHENE	0.5	UG	3/L	< 0.5		
TOLUENE ,	0.5	UG	6/L	< 0.5		
1,1,1-TRICHLOROETHANE .	1.0	UG	S/L	< 1.0		
1,1,2-TRICHLOROETHANE	0.2	UG	S/L	< 0.2		
TRICHLOROETHENE	0.3	UG		< 0.3		
TRICHLOROFLUOROMETHANE	0.2	UG	S/L	< 0.2		
VINYL CHLORIDE	0.5	UG		< 0.5		
TOTAL XYLENES	0.5	UG	S/L	< 0.5		
SURROGATE:						
BROMOCHLOROMETHANE (%)				102		
SURROGATE LIMITS	(73 - 117)					
TRIFLUOROTOLUENE (%)	,			110		
SURROGATE LIMITS	(69 - 117)					

CHEMIST NOTES:

## GAS CHROMOTOGRAPHY RESULTS REAGENT BLANK

TEST : PURGEABLE HALOCARBONS / AROMATICS (EPA 8010/8020)

BLANK I.D. : 092596 AEN I.D. : 609361 CLIENT : NM OIL CONSERVATION DIVISION DATE EXTRACTED : NA PROJECT# : (none) DATE ANALYZED : 9/25/96 PROJECT NAME : ENRON-ROSWELL SAMPLE MATRIX : AQUEOUS

PARAMETER		UNITS		
BENZENE		UG/L	<0.5	
BROMODICHLORMETHANE		UG/L	<0.2	
BROMOFORM		UG/L	<0.5	
BROMOMETHANE		UG/L	<1.0	
CARBON TETRACHLORIDE		UG/L	<0.2	
CHLOROBENZENE		UG/L	<0.5	
CHLOROETHANE		UG/L	<0.5	
CHLOROFORM		UG/L	<0.5	
CHLOROMETHANE		UG/L	<1.0	
DIBROMOCHLOROMETHANE		UG/L	<0.2	
1,2-DIBROMOETHANE (EDB)		UG/L	<0.2	
1,2-DICHLOROBENZENE		UG/L	<0.5	
1,3-DICHLOROBENZENE		UG/L	<0.5	
1,4-DICHLOROBENZENE		UG/L	<0.5	
1,1-DICHLOROETHANE		UG/L	<0.3	
1,2-DICHLOROETHANE (EDC)		UG/L	<0 <u>.</u> 5	
1,1-DICHLOROETHENE		UG/L	<0.2	
cis-1,2-DICHLOROETHENE		UG/L	<0.2	
trans-1,2-DICHLOROETHENE		UG/L	<1.0	
1,2-DICHLOROPROPANE		UG/L	<0.2	
cis-1,3-DICHLOROPROPENE		UG/L	<0.2	
trans-1,3-DICHLOROPROPENE		UG/L	<0.2	
ETHYLBENZENE		UG/L	<0.5	
METHYL -t-BUTYL ETHER		UG/L	<2.5	
METHYLENE CHLORIDE		UG/L	<2.0	
1,1,2,2-TETRACHLOROETHANE		UG/L	<0.5	
TETRACHLOROETHENE		UG/L	<0.5	
TOLUENE		UG/L	<0.5	
1,1,1-TRICHLOROETHANE		UG/L	<1.0	
1,1,2-TRICHLOROETHANE		UG/L	<0.2	
TRICHLOROETHENE		UG/L	<0.3	
TRICHLOROFLUOROMETHANE		UG/L	<0.2	
VINYL CHLORIDE		UG/L	<0.5	
TOTAL XYLENES		UG/L	<0.5	
SURROGATE:				
BROMOCHLOROMETHANE (%)			92	
SURROGATE LIMITS	( 73 - 117 )		05	
TRIFLUOROTOLUENE (%)	(60 117)		95	

SURROGATE LIMITS (69 - 117)

CHEMIST NOTES:

#### GAS CHROMOTOGRAPHY RESULTS

#### REAGENT BLANK

TEST : PURGEABLE HALOCARBONS / AROMATICS (EPA 8010/8020)

BLANK I.D. : 092696 AEN I.D. : 609361

CLIENT : NM OIL CONSERVATION DIVISION DATE EXTRACTED : NA

PROJECT # : (none) DATE ANALYZED : 9/26/96
PROJECT NAME : ENRON-ROSWELL SAMPLE MATRIX : AQUEOUS

PARAMETER	<del></del>	UNITS	
BENZENE		UG/L	<0.5
BROMODICHLORMETHANE		UG/L	<0.2
BROMOFORM		UG/L	<0.5
BROMOMETHANE		UG/L	<1.0
CARBON TETRACHLORIDE		UG/L	<0.2
CHLOROBENZENE		UG/L	<0.5
CHLOROETHANE		UG/L	<0.5
CHLOROFORM		UG/L	<0.5
CHLOROMETHANE		UG/L	<1.0
DIBROMOCHLOROMETHANE		UG/L	<0.2
1,2-DIBROMOETHANE (EDB)		UG/L	<0.2
1,2-DICHLOROBENZENE		UG/L	<0.5
1,3-DICHLOROBENZENE		UG/L	<0.5
1,4-DICHLOROBENZENE		UG/L	<0.5
1,1-DICHLOROETHANE		UG/L	<0.3
1,2-DICHLOROETHANE (EDC)		UG/L	<0.5
1,1-DICHLOROETHENE		UG/L	<0.2
cis-1,2-DICHLOROETHENE		UG/L	<0.2
trans-1,2-DICHLOROETHENE		UG/L	<1.0
1,2-DICHLOROPROPANE		UG/L	<0.2
cis-1,3-DICHLOROPROPENE		UG/L	<0.2
trans-1,3-DICHLOROPROPENE		UG/L	<0.2
ETHYLBENZENE		UG/L	<0.5
METHYL -t-BUTYL ETHER		UG/L	<2.5
METHYLENE CHLORIDE		UG/L	<2.0
1,1,2,2-TETRACHLOROETHANE		UG/L	<0.5
TETRACHLOROETHENE		UG/L	<0.5
TOLUENE		UG/L	<0.5
1,1,1-TRICHLOROETHANE		UG/L	<1.0
1,1,2-TRICHLOROETHANE		UG/L	<0.2
TRICHLOROETHENE		UG/L	<0.3
TRICHLOROFLUOROMETHANE		UG/L	<0.2
VINYL CHLORIDE		UG/L	<0.5
TOTAL XYLENES		UG/L	<0.5
SURROGATE:			
BROMOCHLOROMETHANE (%)			97
SURROGATE LIMITS	( 73 - 117 )		
TRIFLUOROTOLUENE (%)	•		93
SURROGATE LIMITS	(69 - 117)		

CHEMIST NOTES:

#### GAS CHROMOTOGRAPHY RESULTS

#### REAGENT BLANK

**TEST** : PURGEABLE HALOCARBONS / AROMATICS (EPA 8010/8020)

BLANK I.D. : 092796 AEN I.D.

: 609361 CLIENT : NM OIL CONSERVATION DIVISION DATE EXTRACTED : NA PROJECT# : (none) DATE ANALYZED : 9/27/96

: ENRON-ROSWELL SAMPLE MATRIX : AQUEOUS PROJECT NAME

PARAMETER		UNITS		
BENZENE		UG/L	<0.5	
BROMODICHLORMETHANE		UG/L	<0.2	
BROMOFORM		UG/L	<0.5	
BROMOMETHANE		UG/L	<1.0	
CARBON TETRACHLORIDE		UG/L	<0.2	
CHLOROBENZENE		UG/L	<0.5	
CHLOROETHANE		UG/L	<0.5	
CHLOROFORM		UG/L	<0.5	
CHLOROMETHANE		UG/L	<1.0	
DIBROMOCHLOROMETHANE		UG/L	<0.2	
1,2-DIBROMOETHANE (EDB)		UG/L	<0.2	
1,2-DICHLOROBENZENE		UG/L	<0.5	
1,3-DICHLOROBENZENE		UG/L	<0.5	
1,4-DICHLOROBENZENE		UG/L	<0.5	
1,1-DICHLOROETHANE		UG/L	<0.3	
1,2-DICHLOROETHANE (EDC)		UG/L	<0.5	
1,1-DICHLOROETHENE		UG/L	<0.2	
cis-1,2-DICHLOROETHENE		UG/L	<0.2	
trans-1,2-DICHLOROETHENE		UG/L	<1.0	
1,2-DICHLOROPROPANE		UG/L	<0.2	
cis-1,3-DICHLOROPROPENE		UG/L	<0.2	
trans-1,3-DICHLOROPROPENE		UG/L	<0.2	
ETHYLBENZENE		UG/L	<0.5	
METHYL -t-BUTYL ETHER		UG/L	<2.5	
METHYLENE CHLORIDE		UG/L	<2.0	
1,1,2,2-TETRACHLOROETHANE		UG/L	<0.5	
TETRACHLOROETHENE		UG/L	<0.5	
TOLUENE		UG/L	<0.5	
1,1,1-TRICHLOROETHANE		UG/L	<1.0	
1,1,2-TRICHLOROETHANE		UG/L	<0.2	
TRICHLOROETHENE		UG/L	<0.3	
TRICHLOROFLUOROMETHANE		UG/L	<0.2	
VINYL CHLORIDE		UG/L	<0.5	
TOTAL XYLENES		UG/L	<0.5	
SURROGATE:				
BROMOCHLOROMETHANE (%) SURROGATE LIMITS	(73 - 117)		112	
TRIFLUOROTOLUENE (%)	,		112	
SURROGATE LIMITS	( 69 - 117 )			

CHEMIST NOTES:

#### GAS CHROMOTOGRAPHY QUALITY CONTROL **MSMSD**

**TEST** : PURGEABLE HALOCARBONS / AROMATICS (EPA 8010/8020)

MSMSD# : 609349-01 AEN I.D.

: 609361 DATE EXRACTED CLIENT : NM OIL CONSERVATION DIVISION : NA

PROJECT# : (none) DATE ANALYZED : 9/25-26/96

**PROJECT NAME** : ENRON-ROSWELL SAMPLE MATRIX : AQUEOUS UNITS : UG/L

					011110		:	O O, L	
	SAMPLE	CONC	SPIKED	%	DUP	DUP		REC	RPD
PARAMETER	RESULT	SPIKE	SAMPLE	REC	SPIKE	% REC	RPD	LIMITS	LIMITS
BENZENE	<0.5	10.0	9.6	96	10.5	105	9	(82 -128)	20
TOLUENE	<0.5	10.0	9.8	98	10.9	109	11	(87 -128)	20
1,1-DICHLOROETHENE	<0.2	10.0	9.6	96	9.0	90	6	(44 - 99)	20
TRICHLOROETHENE	<0.3	10.0	12.1	121	11.7	117	3	(89 - 127)	20
CHLOROBENZENE	<0.5	10.0	10.7	107	11.2	112	5	(87 - 124)	20

**CHEMIST NOTES:** N/A

(Spike Sample Result - Sample Result)

----- X 100 % Recovery =

(Sample Result - Duplicate Result)

RPD (Relative Percent Difference) = ----- X 100

Spike Concentration

Average Result

Albuq	<i>merican Environmenta</i> uerque • Phoenix • Pensacola • Po	al Network (NM Porlland • Pleasant Hills • (	), Inc.	CHAI	N OI	F CUST	OF A	EN LAB I.D. 50936/			
	PROJECT MANAGER: 12:11	Olson					ANALYSIS	REQUEST			
ARE FOR LAB USE ONLY.	COMPANY: NM. Di C ADDRESS: 2040 S. Santa Fa PHONE: (505) \$2	Conservation Div Pacheco NM 87505 27-7154 27-8177	G'I BY	(MOD.8015) Diesel/Direct/Inject	Gasoline/BTEX & MTBE (M8015/8020) BTXE/MTBE (8020)	BTEX & Chlorinated Aromatics (602/8020) BTEX/MTBE/EDC & EDB (8020/8010/Short) Chlorinated Hydrocarbons (601/8010)	EDB ☐ / DBCP ☐ rnuclear Aromatics (610/8310) tile Organics (624/8240) GC/MS tile Organics (8260) GC/MS	3/8080) (0) bounds GC/MS (625/8270)	General Chemistry: Priority Pollutant Metals (13)	Target Analyte List Metals (23) RCRA Metals (8) RCRA Metals by TCLP (Method 1311)	Metals: NUMBER OF CONTAINERS
AS	The second secon	DATE TIME MATRIX	LAB I.D.		ag fa	E E E	Vola Vola	Her Base	P. Oir		Netals: NUMBE
AREA	MW-12) 96092412001	9/24/96 1200 Water	-01			3-3					7
DA	MW-14) 9609241425 9	2496 1425 witer	-02			3-3					3
SHADED	MU-17) 960924/620191	124/96/1620 lanter	-03			3-3					3
A	Trip Blank 9609231410 9	1/23/96 14/0 water	-04			1-1					
S											
COMPLETELY.							1-1-1-1				
ETI					1-1-		1-1-1-1				
PL					1-1-		4-4-4-4-4				
O							<u> </u>				
S	PROJECT INFORMATION	PRIOR AUTHORIZATION	ON IS REQUI	IRED FOR	RUSH	PROJECTS	RELINGUISHER	BY: 1.	RELINQUISHE	D BY:	2.
ORM IN	PROJ. NO.:	(RUSH) □ 24hr □ 48hr □		EEK		(NORMAL)	Signature/	Time: 145	Signature:	Time:	
DRI.	PROJ. NAME: ENKON-ROSUR	CERTIFICATION REQUIRED:	□NM □SE	DWA 🗆	OTHER		Printed Name:	Date:	Printed Name:	Date:	
L	P.O. NO.:	METHANOL PRESERVATION [	<del></del>				11119m U/Jon	9/25/96	<u> </u>		
THIS	SHIPPED VIA:	COMMENTS: FIXED FEE					Company: MOC	D	Company:		
1	SAMPLE RECEIPT  NO. CONTAINERS  10						RECEIVED BY:	1.	RECEIVED BY:		2.
FIL							Signature:	Time:	Signetury.	Times 1	415
LEASE	CUSTODY SEALS Y/N/NA						Printed Name:	Date:	Printed Name:	Pale:	<u>/</u>
EA	RECEIVED INTACT Yes						Company:	· · · · · · · · · · · · · · · · · · ·	John Calden	49/2	9726
4	BLUE ICE(CE)	Field							American Environ	ental Network (i	NM), inc.

#### State of New Mexico



GARY E. JOHNSON

#### ENVIRONMENT DEPARTMENT

Harold Runnels Building 1190 St. Francis Drive, P.O. Box 26110 Santa Fe, New Mexico 87502

OFFICE OF GENERAL COUNSEL

PHONE: 605-827-2990 FAX: 505-827-1628 MARK E. WEIDLER SECRETARY

EDGAR T. THORNTON, III
DEPUTY SECRETARY

August 9, 1996

Joe Hulscher, Vice President Transwestern Pipeline Company 4001 Indian School Rd. N.E. Albuquerque, New Mexico 37110

RE: PROPOSED SETTLEMENT AGREEMENT AND ALTERNATE CLOSURE PLAN

Dear Mr. Hulscher:

This letter is in response to your letter and proposed settlement agreement date June 28, 1996. Following our March meeting, I requested in writing that Transwestern Pipeline Company (TPC) submit the technical closure plan which our staff had approved or an acceptable alternate to that closure plan as required by law. Upon request from TPC, I provided TPC with an extension to submit entitled "Settlement Agreement and Alternative Closure Plan." We cannot recall any discussion authorizing TPC to undertake the drafting of a "settlement agreement." Further, we do not believe the Texas Risk Reduction Standard referred to in the proposal is appropriate under the circumstances.

Nevertheless, our staff has reviewed your proposal and regrettably, has concluded that it is completaly unacceptable and not in compliance with the regulatory requirements under either the New Mexico Hazardous Waste Act (HWA) or the Resource Conservation and Recovery Act (RCRA). We fully expected a technical closure plan substantially similar to the plan which NMED approved pursuant to the HWA. To the extent that TPC has chosen to apply for approval of closure and remediation with the Oil Conservation Division (OCD), we would like to clarify that OCD has neither authority nor jurisdiction to approve closure or cleanup of hazardous waste disposal sites. Our conclusion that TPC must close and remediate under the HWA and RCRA is based upon our environmental expertise and fully supported by the United States Environmental Protection Agency (see attached letter).

For these reasons, we would hope that TPC determines to avoid unnecessary future delay and costs by coming into compliance with the law as soon as possible. We hereby request that TPC resubmit the previously developed closure plan that was proposed for

Joe Hulscher, Vice President August 9, 1996 Page 2

approval and public comment which was withdrawn by TPC on January 19, 1996. This letter also serves to notify TPC that it may be liable for civil penalties under the HWA and RCRA for each day that it determines to fail to comply with the requirements to submit a closure plan. If we do not receive the submittal of the previously withdrawn closure plan prior to September 3, 1996, we will take appropriate actions.

If you wish to discuss this matter in more detail, please contact either me or Ed Kelley to arrange a meeting. We look forward to hearing from gou.

Sincerely,

WEIDLER

cc: Robert E. Hannesschlager, USEPA

Jennifer Salisbury, Secretary, Energy & Minerals

Richard Virtue, Esq. Lou Soldano, Esq.

Bill Kendrick, Enron Operations Corp.

Ed Kelley, NMED Benito Garcia, NMED

Susan McMichael, OGC NMED





#### ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

#### OIL CONSERVATION DIVISION

2040 S. PACHECO SANTA FE, NEW MEXICO 87505 (505) 827-7131

July 25, 1996

## CERTIFIED MAIL RETURN RECEIPT NO: P-269-269-176

Mr. Bill Kendrick
ENRON Operations Corp.
P.O. Box 1188
Houston, Texas 77251-1188

RE: TRANSWESTERN PIPELINE CO. ROSWELL COMPRESSOR STATION

Dear Mr. Kendrick:

The New Mexico Oil Conservation Division (OCD) has completed a review of Transwestern Pipeline Company's (TPC) April 24, 1996 "FINAL DISPOSITION OF INVESTIGATION DERIVED WASTES, TRANSWESTERN PIPELINE COMPANY ROSWELL COMPRESSOR STATION". This document contains TPC's request to dispose of soils from soil borings and ground water monitor wells onsite at the Roswell Compressor Station. The disposal requests are based upon laboratory analytical sampling results.

The above referenced request is approved.

Please be advised that OCD approval does not relieve TPC of liability should their disposal actions result in actual pollution of ground water, surface water, or the environment. In addition, OCD approval does not relieve TPC of responsibility for compliance with any other federal, state or local laws and/or regulations.

If you have any questions, please contact me at (505) 827-7154.

Sincerely,

William C. Olson

Hydrogeologist

Environmental Bureau

xc: OCD Artesia District Office

George Robinson, Cypress Engineering Services, Inc.

#### P 269 269 176

# US Postal Service Receipt for Certified Mail No Insurance Coverage Provided.

	Do not use for Internation	nal Mail <i>(See reverse)</i>
	Sent to	
	Street & Number	
	Post Office, State, & ZIP Cod	e
	Postage	\$
	Certified Fee	
	Special Delivery Fee	
ıo	Restricted Delivery Fee	
199	Return Receipt Showing to Whom & Date Delivered	
Apri	Return Receipt Showing to Whom, Date, & Addressee's Address	
800	TOTAL Postage & Fees	\$
PS Form <b>3800</b> , April 1995	Postmark or Date	
o.		



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 6 1445 ROSS AVENUE, SUITE 1200 DALLAS, TX 75202-2733

JAN 1 19 1996

Beceived

JUN 2 7 1996

Mr. Ed Kelley, Director Water and Waste Management Division New Mexico Environment Department P.O. Box 26110 Santa Fe, NM 87502

NM ENVIRONMENT DEPARTMENT OFFICE OF THE SECRETARY

Dear Mr. Kelley:

As discussed in the April meeting between Mark Weidler and Allyn M. Davis, the Environmental Protection Agency (EPA) has reviewed the circumstances concerning Transwestern Pipeline Company's (TPC) allegation that it does not need to comply with the requirements for closure or permitting under the Resource Conservation and Recovery Act (RCRA).

The EPA fully supports the position of the New Mexico Environment Department (NMED) and its analysis that RCRA is applicable to TPC. This decision is based on our review of the situation and a letter dated February 1, 1996, from NMED's Susan McMichael to Richard Virtue of TPC's legal counsel, which addresses each of TPC's assertions. Also, I have enclosed some guidance from the RCRA permit compendium pertaining to the petroleum waste exclusion.

Please keep us informed of the regulatory status in this matter. If you have any further questions, do not hesitate to call Mr. David Neleigh at (214) 665-6785.

Sincerely yours,

Robert E. Hannesschlager, P.E. Acting Division Director

Multimedia Planning

and Permitting Division

Enclosure

## **ENRON**OPERATIONS CORP.

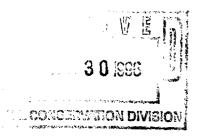
P. O. Box 1188

Houston, Texas 77251-1188

(713) 853-6161

April 24, 1996

Mr. William C. Olson Environmental Bureau New Mexico Oil Conservation Division 2040 S. Pacheco St. Santa Fe, New Mexico 87505



RE:

Final Disposition of Investigation Derived Wastes

Transwestern Pipeline Company Roswell Compressor Station

Dear Bill,

During the course of the August, 1995, subsurface assessment activities at the subject facility, several drums of potentially contaminated soil and ground water were collected from soil borings and ground water monitor wells. Subsequently, Transwestern submitted a proposal to your office for final disposition of the investigation derived wastes. Your office responded with an approval of the proposed disposition for all but a selected few waste sources.

Approval for the proposed disposition was deferred for drums containing soil cuttings from the off-site soil borings MW-7, MW-7A, MW-8, and MW-9 due to a concern over the measured concentration of metals in soil samples from these four borings. In response, Transwestern has collected a composite sample from these soil cuttings and delivered the sample to a laboratory for metals analyses on a TCLP extract of the sample. The lab results are presented in the table below. A copy of the lab results is enclosed with this letter.

Analyte	Concentration (mg/L)	NMWQCC Standard (mg/L)
TCLP-Arsenic	< 0.03	0.1
TCLP-Barium	0.10	1.0
TCLP-Chromium	< 0.01	0.05
TCLP-Lead	< 0.03	0.05
TCLP-Mercury	< 0.0002	0.002

A copy of Tables 2a, 2b, and 2c from Transwestern's Phase I Soil and Ground Water Assessment report is also enclosed with this letter. These tables present a summary of constituents detected in soil samples collected from the off-site soil borings. Transwestern is confident that the metal constituents detected in these soil samples represent background concentrations of naturally occurring metals. In consideration of the information presented here, Transwestern requests your office to reconsider the original proposed disposition of the soil cuttings from the four off-site soil borings. Table 1 from the original proposal is reproduced below. This table presents the source, quantity, and proposed disposition of the soil cuttings in question.

Table 1. Source, quantity, and proposed disposition of remaining investigation derived waste.

Source	Quantity	Proposed Disposition
Cuttings from off-site soil boring MW-7	five 55 gallon drums	Non-detect for VOCs and SVOCs; proposed disposition is to spread cuttings on ground surface within the facility fenceline
Cuttings from off-site soil boring MW-7A	four 55 gallon drums	Non-detect for VOCs and SVOCs; proposed disposition is to spread cuttings on ground surface within the facility fenceline
Cuttings from off-site soil boring MW-8	five 55 gallon drums	Non-detect for VOCs and SVOCs; proposed disposition is to spread cuttings on ground surface within the facility fenceline
Cuttings from off-site soil boring MW-9	five 55 gallon drums	Non-detect for VOCs and SVOCs; proposed disposition is to spread cuttings on ground surface within the facility fenceline

Transwestern, as operator of the subject facility, will implement the proposed disposition of these investigation derived wastes upon review and approval by your office. If you have any questions regarding this proposal, please contact me at (713) 646-7644 or George Robinson at (713) 646-7327.

Sincerely,

**Environmental Affairs** 

gcr/BK

Larry Campbell xc:

George Robinson

TW Technical Operations

Cypress Engineering Services

Roswell, NM

3AC-3142

ENVIRONMENTAL SCIENTISTS AND ENGINEERS

# Table 2a. Summary of Detected Compounds for Soil Samples Roswell Compressor Station No. 9 Off-Site Soil Boring MW-7ABD

	Sample No. and Depth (Sample Date)						
Analyte	MW-7ABD 5-10' (08/15/95)	MW-7ABD 40-42' (08/15/95)	MW-7ABD 60-62' (08/15/95)				
Volatile Organic Compounds (μg/kg) by EPA Method 8240							
Methylene chloride (dichloromethane) <5 <5 <5							
Metals (mg/kg) by EPA Methods 6010 and	7471 (for Mei	cury)					
Arsenic (As)	<b>&lt;</b> 5	8	5				
Barium (Ba)	319	210	165				
Chromium (Cr)	7	16	14				
Lead (Pb)	<b>&lt;</b> 5	18	8				
Mercury (Hg)	<0.10	<0.10	0.42				

Table 2b. Summary of Detected Compounds for Soil Samples
Roswell Compressor Station No. 9
Off-Site Soil Boring MW-7

	Sample No. and Depth (Sample Date)							
Analyte	MW-7 10-12' (08/22/95)	MW-7 30-32' (08/22/95)	MW-7 40-42' (08/22/95)	MW-7 50-52' (08/22/95)	MW-7 70-72' (08/22/95)			
Volatile Organic Compounds (μg/kg) by EPA Method 8240								
Methylene chloride (dichloromethane)	<b>6</b> B	7 B	<b>8</b> B	8 B	<b>9</b> B			
Metals (mg/kg) by EPA Methods 6010 and 7471 (for Mercury)								
Arsenic (As)	<5	<b>√</b> 5	<5	7	12			
Barium (Ba)	301	48	30	157	102			
Chromium (Cr)	6	11	9	19	16			
Lead (Pb)	<5	6	5	6	11			
Mercury (Hg)	<0.10	<0.10	<0.10	<0.10	<0.10			

B = Analyte also present in method blank

Notes: These tables list only those analytes that were detected in at least one of the soil samples from off-site soil borings. Bold values highlight concentrations above reporting limits.

ENVIRONMENTAL SCIENTISTS AND ENGINEERS

# Table 2c. Summary of Detected Compounds for Soil Samples Roswell Compressor Station No. 9 Off-Site Soil Borings MW-8 and MW-9

	Sample No. and Depth (Sample Date)							
Analyte	MW-8 10' (08/16/95)	MW-8 65' (08/16/95)	MW-9 10' (08/16/95)	MW-9 40-42' (08/16/95)	MW-9 60-62' (08/22/95)			
Volatile Organic Compounds (μg/kg) by EPA Method 8240								
Methylene chloride (dichloromethane)	<b>&lt;</b> 5	<5	<b>&lt;</b> 5	<b>&lt;</b> 5	10 B			
Metals (mg/kg) by EPA Methods 6010 and 7471 (for Mercury)								
Arsenic (As)	<b>&lt;</b> 5	<b>&lt;</b> 5	8	12	14			
Barium (Ba)	95	8	151	176	76			
Chromium (Cr)	8	5	7	13	15			
Lead (Pb)	<b>&lt;</b> 5	<b>&lt;</b> 5	<5	5	5			
Mercury (Hg)	0.12	<0.10	<0.10	<0.10	<0.10			

#### B = Analyte also present in method blank

Notes: These tables list only those analytes that were detected in at least one of the soil samples from off-site soil borings. Bold values highlight concentrations above reporting limits.



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

12/12/1995

NET Job Number: 95

95.09169

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	Sample Description	Date	Date
<u>Number</u>		<u>Taken</u>	<u>Received</u>
286851	COMPOSITE OF MW-7A, MW-8, MW-9,	12/05/1995	12/06/1995

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

cregory K. Hortor Project Manager





#### ANALYTICAL REPORT

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

12/12/1995

Job No.: 95.09169

Page: 2

Project Name:

TRANSWESTERN PIPELINE ROSWELL FACILITY

Date Received:

12/06/1995

286851

COMPOSITE OF MW-7A, MW-8, MW-9, MW-7 Taken: 12/05/1995 11:50

TCLP-Arsenic, ICP	<0.03	mg/L
TCLP-Barium, ICP	0.10	∞mg/L
TCLP-Chromium, ICP	<0.01	mg/L
TCLP-Lead, ICP	<0.03	mg/L
TCLP-Mercury, CVAA	<0.0002	mg/L



#### QUALITY CONTROL REPORT Continuing Calibration Verification (CCV)

JOB NUMBER:

95.09169

					CCV		
		DATE		CCV	TRUE		
PARAMETER	ANALYST	ANALYZED	METHOD	RESULT	CONCENTRATION	* REC.	FLAG
							•
TCLP-Arsenic, ICP	des	12/11/1995	S-6010A	1.04	1.00	104	NA
TCLP-Barium, ICP	des	12/11/1995	S-6010A	1.00	1.00	100	NA
TCLP-Chromium, ICP	des	12/11/1995	S-6010A	1.01	1.00	101	NA
TCLP-Lead, ICP	des	12/11/1995	S-6010A	0.98	1.00	98	NA
TCLP-Mercury, CVAA	cbw	12/12/1995	S-7470A	0.51	0.50	102	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:

95.09169

	DATE			REPORTING	
PARAMETER	ANALYZED	BLANK	UNITS	LIMIT	FLAG
TCLP-Arsenic, ICP	12/11/1995	<0.03	mg/L	0.03	NA
TCLP-Barium, ICP	12/11/1995	<0.01	mg/L	0.01	NA
TCLP-Chromium, ICP	12/11/1995	<0.01	mg/L	0.01	NA
TCLP-Lead, ICP	12/11/1995	<0.03	mg/L	0.03	NA
TCLP-Mercury, CVAA	12/12/1995	<0.0002	mg/L	0.0002	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:

95.09169

DA DA MONTELD	LCS RESULT	TRUE CONC.	LCS * REC. FLAG
PARAMETER	RESOLI	<u>conc.</u>	<u> </u>
TCLP-Arsenic, ICP	1.02	1.00	102
TCLP-Barium, ICP	1.02	1.00	102
TCLP-Chromium, ICP	1.03	1.00	103
TCLP-Lead, ICP	1.02	1.00	102
TCLP-Mercury, CVAA	0.51	0.50	102



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

JOB NUMBER:

95.09169

	· SAMPLE	MS	MSD	SPIKE	MS	MSD	MS/MSD	
PARAMETER	RESULT	RESULT	RESULT	TRUOMA	* REC.	* REC.	RPD	FLAG
TCLP-Arsenic, ICP	<0.03	1.09	1.14	1.00	109	114	4.5	
TCLP-Arsenic, ICP	0.04	1.04	1.08	1.00	100	104	3.9	
TCLP-Barium, ICP	0.10	1.05	1.07	1.00	95	97	2.1	
TCLP-Barium, ICP	0.92	1.87	1.87	1.00	95	95	0	
TCLP-Chromium, ICP	<0.01	0.95	0.97	1.00	95	97	2.1	
TCLP-Chromium, ICP	<0.01	0.94	0.95	1.00	94	95	1.1	
TCLP-Lead, ICP	<0.03	0.99	0.99	1.00	99	99	0	
TCLP-Lead, ICP	<0.03	0.95	0.96	1.00	95	96	1	
TCLP-Mercury, CVAA	<0.0002	0.52	0.58	0.50	104	116	11	
TCLP-Mercury, CVAA	<0.0002	0.49	0.49	0.50	98	98	0	

#### 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.

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#### STATE OF NEW MEXICO



#### ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

#### OIL CONSERVATION DIVISION

2040 S. PACHECO SANTA FE, NEW MEXICO 87505 (505) 827-7131

July 24, 1996

### CERTIFIED MAIL RETURN RECEIPT NO: P-269-269-174

Mr. Bill Kendrick
ENRON Operations Corp.
P.O. Box 1188
Houston, Texas 77251-1188

RE: PHASE II INVESTIGATION WORK PLAN ROSWELL COMPRESSOR STATION TRANSWESTERN PIPELINE CO.

Dear Mr. Kendrick:

The New Mexico Oil Conservation Division (OCD) has completed a review of Transwestern Pipeline Company's (TPC) December 20, 1995 "WORK PLAN FOR PHASE II SOIL AND GROUND-WATER ASSESSMENT FOR ROSWELL COMPRESSOR STATION NO. 9 SURFACE IMPOUNDMENTS" and November 8, 1995 "PHASE I SOIL AND GROUND-WATER ASSESSMENT FOR ROSWELL COMPRESSOR STATION NO. 9 SURFACE IMPOUNDMENTS". These documents contain the results of TPC's Phase I investigations and TPC's proposed work plan for additional (Phase II) soil and ground water contamination investigations at the Roswell Compressor Station.

The above referenced proposed Phase II work plan is approved with the following conditions:

- 1. The OCD is concerned about the lack of actual background soil metals concentrations at the site. Actual concentrations will need to be determined either during this phase of the investigation or at a later date.
- 2. Soil samples from all borings and monitor wells will be taken from the interval with the highest field PID readings and the bottom of the boring. The soils will be sampled and analyzed for aromatic and halogenated volatile organics, semi-volatile organics, polychlorinated biphenyls, New Mexico Water Quality Control Commission (WQCC) metals and total petroleum hydrocarbons using appropriate EPA methods and quality assurance/quality control.

Mr. Bill Kendrick July 24, 1996 Page 2

- 3. In order to develop a comprehensive ground water quality assessment of the site, TPC will sample ground water from all proposed and pre-existing site monitor wells during the proposed sampling program. Ground water samples from all wells will be sampled for aromatic and halogenated volatile organics, semi-volatile organics, polychlorinated biphenyls, metals, total dissolved solids and cations and anions regulated by the WQCC. All samples will be analyzed using appropriate EPA methods and quality assurance/quality control.
- 4. All wastes generated will be analyzed for hazardous characteristics, benzene, toluene, ethylbenzene, xylene and total petroleum hydrocarbons and submitted to the OCD for approval prior to disposal.
- 5. All boreholes will be properly plugged and abandoned upon completion by grouting the hole to the surface with cement containing 5% bentonite.
- 6. TPC will submit a report on the investigation to the OCD by November 1, 1996. The report will contain:
  - a. A description of all activities which occurred during the investigation including conclusions and recommendations. The recommendations will include a proposed long term ground water monitoring program.
  - b. Lithologic logs and as built well construction diagrams for each soil boring, monitor well and soil vapor extraction well.
  - c. Summary tables listing all soil laboratory analytic results including copies of the laboratory analyses and quality assurance/quality control data.
  - d. Summary tables listing all past and present laboratory analytic results of all water quality sampling for each monitoring point including copies of the current laboratory analyses and quality assurance/quality control data.
  - e. Soil and ground water isoconcentration maps for contaminants of concern (COC). In addition to the COC's proposed, COC's will include all contaminants which either are in excess of or have the potential to cause an exceedance of WQCC standards.
  - f. A water table elevation map using the water table elevation of the ground water in all monitor wells.

Mr. Bill Kendrick July 24, 1996 Page 3

- g. A product thickness map based on the thickness of free phase product in all monitor wells.
- h. The recommended disposition of any wastes generated during the investigations.
- 7. TPC will notify the OCD at least one week in advance of all scheduled activities such that an OCD representative has the opportunity to witness the events and/or split samples.
- 8. All documents submitted for approval will be submitted to the OCD Santa Fe Office with copies provided to the OCD Artesia District Office.

Please be advised that OCD approval does not relieve TPC of liability if contamination exists which is beyond the scope of the work plan, or if the activities fail to adequately determine the extent of contamination related to TPC's activities. In addition, OCD approval does not relieve TPC of responsibility for compliance with RCRA hazardous waste regulations or any other federal, state or local laws and/or regulations.

If you have any questions, please call me at (505) 827-7154.

Sincerely,

William C. Olson

Hydrogeologist

Environmental Bureau

xc: OCD Artesia District Office
Mark Weidler, Secretary NMED
Replie Cargia NMED Hazardous and Padioa

Benito Garcia, NMED Hazardous and Radioactive Materials Bureau George Robinson, Cypress Engineering Services, Inc.

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## Transwestern Pipeline Company

J. A. "Joe" Hulscher Vice President Operations Summit Office Bldg., Ste. 250 4001 Indian School Rd., NE Albuquerque, NM 87110 Direct (505) 260-4001 Houston (713) 853-7794

June 28, 1996

### RECEIVED

JUN 2 8 1996

Oil Conservation Division

#### VIA HAND DELIVERY

Honorable Mark E. Weidler, Secretary New Mexico Environment Department Runnels Building 1190 St. Francis Drive Santa Fe, New Mexico

Re: Transwestern Pipeline Company Roswell Compressor Station

Dear Mr. Secretary:

On behalf of Transwestern Pipeline Company (Transwestern) please find enclosed a copy of a proposed settlement agreement between Transwestern and the State of New Mexico Environment Department (NMED) which covers former surface impoundments at the Roswell Compressor Station. As promised, the settlement agreement includes a detailed alternative closure plan for the former surface impoundments. The plan is similar to the prior plan but it is both simpler and more comprehensive.

The original plan devoted considerable discussion to a description of the compressor station and the numerous investigations voluntarily conducted both prior to and subsequent to the time when Transwestern brought conditions at the station to the attention of the State of New Mexico. The descriptive and historical material has essentially been left unchanged. Further, much of the QA/QC section has remained unchanged.

The present plan has been updated to include the results of the 1995 Phase I assessment and proposed Phase II assessment at the former surface impoundments. The plan has been expanded by including: a proposed remedial technology to remove contaminants from the soil and groundwater at the former impoundments, target cleanup levels for the contaminants in the soil and the groundwater and a proposed schedule.

The cleanup levels are derived from several sources. First, soil cleanup standards for the majority of compounds other than petroleum hydrocarbons are based upon cleanup standards developed by the State of Texas for both RCRA and non-RCRA sites. These standards, known as Tier II standards, are based upon a conservative generic risk assessment and are considerably more conservative than the EPA proposed RCRA Subpart S standards for cleanup of the soil. Second, the groundwater cleanup standards are primarily based upon New Mexico Water Quality Control Commission standards. Finally, the hydrocarbon related compounds, Total Petroleum Hydrocarbons (TPH), Benzene, Toluene, Ethyl benzene, and Xylene (BTEX) concentrations are based upon New Mexico Oil Conservation Division (OCD) guidance. These standards are fully protective of human health and the environment and are based upon a combination of existing New Mexico standards and conservative risk based standards developed for similar RCRA programs. Transwestern proposes these standards despite the naturally poor quality of the groundwater at the station. In light of the conditions at the site and the conservative nature of the target cleanup levels Transwestern has included the opportunity to demonstrate by acceptable risk assessment methods that less conservative standards may be appropriate.

In recent correspondence provided by the NMED it appears that there may still be some confusion over exactly why Transwestern has taken the position that no hazardous waste was ever disposed of in the surface impoundments. It is Transwestern's understanding that the only issue in dispute is whether any 100% concentration chlorinated solvents were disposed of in the surface impoundments. Transwestern's position is based upon the fact there is no evidence that any chlorinated solvents in 100% concentrations were ever disposed of in the former surface impoundments. During the period that the former impoundments were in operation, no later than November 1983, there is no evidence that any 100% concentration chlorinated solvents were placed in the impoundments. The only information that is available is that during this time frame such compounds were used in less that 100% solutions. Under the regulations in effect at the time such compounds were considered non-hazardous. Solvent mixtures were defined by the EPA as hazardous effective January 30, 1986, many years after the use of the surface impoundments had ceased. For the purposes of this analysis, Transwestern is not relying on the oil and gas exclusion found under 40 C.F.R. §261.4(b)(5).

The enclosed plan is consistent with our discussion at the March 3rd meeting and subsequent discussions by counsel. The intent of the settlement and the plan is to minimize the transactional time for both parties to finish the assessments and implement full remediation. Under the agreement the NMED will be kept fully apprised of all Transwestern actions and have full opportunity to observe field activities. The plan and the settlement agreement provide a reasonable, balanced approach to resolving the disputed issues between the NMED and Transwestern in the hopes of avoiding further delay and legal proceedings. Transwestern's proposal preserves both the NMED's statutory responsibilities and Transwestern's position. Most importantly, the settlement agreement and alternative closure plan provide a sensible, efficient and effective approach to conducting the remaining assessments and remediation both on and off the station in a timely manner.

Once you and your staff have had a chance to review the enclosed materials, please contact us. In the event there are any questions, I would suggest counsel for the NMED contact their counterparts for Transwestern, either Richard Virtue (505/983-6101) or Lou Soldano (713/853-7237) and technical issues be directed to either Bill Kendrick (713/646-7644) or Larry Campbell (505/625-8022). Transwestern looks forward to hearing from you soon and resolving this matter in an expeditious and mutually cooperative fashion.

Sincerely,

Joe Hulscher

cc: Benito Garcia - NMED
Susan McMichael, Esq. - NMED
Louis P. Soldano, Esq.
Richard L. C. Virtue, Esq.
Bill Kendrick
Larry Campbell

cc: w/out attachments Roger Anderson - OCD

soldano\ltrs\weidler.doc

NEW MEXICO ENVIRONMENT DEPARTMENT

MULTI-PARTY

FACSIMILE MESSAGE COVER SHEET

TO

FROM

ATTENTION:	DATE: June 24, 1996
Jennifer Salisbury	438-3855
Roger Anderson, OCD	438-3855
Richard Virtue	983-8304
Joe Hulscher, TPC	2550790
SUBJECT:	NAME: Ed Kelley
DIVISION:	DIVISION: Office of General Counsel
TOTAL PAGES:	FAX PHONE NO. 827-1628 - NOTE NEW #

MESSAGE:

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1190 St. Francis Drive
Post Office Box 26110
Santa Fe, New Mexico 87502
PHONE: (505) 827-2990
FAX: (505) 827-1628





#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

**REGION 6** 1445 ROSS AVENUE, SUITE 1200 DALLAS, TX 75202-2733

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JUN 2 1 1996

Mr. Ed Kelley, Director Water and Waste Management Division New Mexico Environment Department P.O. Box 26110 Santa Fe, NM 87502

NMED OGC

NM ENVIRONMENT DEPARTMENT OFFICE OF THE SECRETARY

Dear Mr. Kelley:

As discussed in the April meeting between Mark Weidler and Allyn M. Davis, the Environmental Protection Agency (EPA) has reviewed the circumstances concerning Transwestern Pipeline Company's (TPC) allegation that it does not need to comply with the requirements for closure or permitting under the Resource Conservation and Recovery Act (RCRA).

The EPA fully supports the position of the New Mexico Environment Department (NMED) and its analysis that RCRA is applicable to TPC. This decision is based on our review of the situation and a letter dated February 1, 1996, from NMED's Susan McMichael to Richard Virtue of TPC's legal counsel, which addresses each of TPC's assertions. Also, I have enclosed some guidance from the RCRA permit compendium pertaining to the petroleum waste exclusion.

Please keep us informed of the regulatory status in this matter. If you have any further questions, do not hesitate to call Mr. David Neleigh at (214) 665-6785.

Sincerely yours,

Robert E. Hannesschlager, P.E.

Acting Division Director Multimedia Planning

and Permitting Division

Enclosure

8441.1992(03)

CRA/Superfund/OUST Hotline Monthly Report Ouestion

anuary 1992

. Regulatory Status of Waste from Oil Gathering Pipelines

An oil production facility uses gathering pipelines to transport oil from its production site to a site owned by another facility. The oil has already undergone initial oil/water separation. Waste forms in the gathering lines during the transportation of the oil. Is the waste that forms subject to the hazardous waste exclusion as 40 CFR 261.4 (b) (5)?

The answer depends on the ownership of the oil at the time the waste forms. Section 261.4(b)(5) excludes drilling fluids, produced Fraters, and other wastes associated with the exploration. levelopment, or production of crude oil, natural gas, or geothermal energy from the definition of hazardous waste. Waste generated after legal custody of the oil changes hands during transportation will not meet the exclusion because it is not intrinsic to the exploration, development, or production of crude oil.

The July 6, 1988, Federal Register (53 FR 25446, footnote 1) defines associated wastes as those wastes other than produced water, rigwash, and drilling muds and cuttings that are intrinsic to exploration, development, and production of crude oil and Endural gas. The Report to Congress: Management of Wastes from the Exploration, Development and Production of Crude Oil, Natural Gas, Hand Geothermal Energy, Vol. 1 of 3 (EPA/530-SW-88-003-A, Dec. 1987) states on page II-17 that "the phrase 'intrinsically derived from the primary field operations' is intended to differentiate exploration, development, and production operations from transportation (from the point of custody transfer or of production separation and dehydration) and manufacturing operations. - Accordingly, any waste generated after a change in the custody of the oil or, in the absence of the change in custody after the initial oil/water separation, is not subject to the 261.4(b) (5) exploration, development or production of crude oil. Shazardous waste exclusion because it is not intrinsic to the

RCRA/SUPERFUND HOTLINE MONTHLY SUMMARY

Oil and Gas Exclusion Applicability

cavern beneath the earth's surface is used to store natural gas that is ater consumed for home heating during winter months. Several compression tations that require movement of the natural gas are operated at ground evel. A RCRA hazardous waste is generated at each compression station. Is his waste exempt from regulation as a hazardous waste? 505 8271628

Waste associated with and unique to the exploration, development, or production of natural gas are excluded from regulation as a hazardous waste as per 40 CFR Section 261.4(b)(5). The natural gas stored in this specific instance must be retrieved from storage in much the same manner as when it was originally produced prior to storage, and the wastes generated in both cases will be nearly identical. In EPA's "Regulatory determination for Oil and Gas and Geothermal Exploration, Development and Production Wastes," 53 FR 25446 (July 6, 1988), the Agency determined that wastes from subsurface gas storage and retrieval are exempt from hazardous waste regulation under RCRA, except for such of those wastes which are not intrinsically associated with the removal of the gas; the Regulatory Determination also lists some of these wastes. See 53 FR at 25454. In addition, wastes associated with manufacturing or transportation, including movement by pipeline offsite, are not exempt from hazardous waste regulation, nor are wastes generated at the gas storage facility that are not uniquely associated with the gas retrieval process.

Research:

Mike Fitzpatrick George Kleevic

(202) 475-6783

FAX NO.

9441.1987(04)

JAN 13 1987

Mr. James E. (Jim) Nugent, Chairman Railroad Commission of Texas Capitol Station, P.O. Drawer 12967 Austin, Texas 78711

Dear Mr. Chairman:

Thank you for your letter dated October 21, 1986. As discussed below, the Agency has made some decisions concerning issues you raised in your letter. Because these tentative determinations are preliminary, however, we invite further discussion on them.

The legislative history of Section 3001(b)(2)(A) of the Resource Conservation and Recovery Act (RCRA) sheds some light on the identity of oil and gas and geothermal energy wastes subject to exemption: 1

the term "other wastes associated" is specifically included to designate waste materials intrinsically derived from the primary field operations associated with the exploration, development, or production of crude oil, natural gas, or geothermal energy. It would cover such substances as hydrocarbon-bearing soil in and around facilities; drill cuttings; materials (such as hydrocarbon, water, sand and emulsion) produced from a well in conjunction with crude oil, natural gas, or geothermal energy; and the accumulated material (such as hydrocarbon, water, sand, and emulsion) from production separators, fluid treating vessels, storage vessels, and production impoundments.

The phrase "intrinsically derived from the primary field operation ..." is intended to differentiate exploration, development, and production operations from transportation (from the point of custody transfer or of production separation and dehydration) and manufacturing operations.

Given the above background, EPA intends to employ four criteria to assist in determining whether a waste is exempt, pending completion of our Report to Congress next year:

1. Only waste streams intrinsic to the exploration for, or development and production of, crude oil, natural gas, or geothermal energy are subject to exemption. Waste streams generated at oil, gas, and geothermal energy facilities that are not uniquely associated with exploration, development, or production activities are not exempt (one example would be spent solvents from equipment cleanup).

NMED OGC

- 2. Exempt waste must be associated with "extraction"2 processes, which include measures (1) to remove oil, natural gas, or geothermal energy from the ground or (2) to remove impurities from such substances, provided that the purification process is an integral part of normal field operations.3
- 3. The proximity of waste streams to primary field operations is another factor in determining the scope of the exemption. Process operations that are distant from the exploration, development, or production operations may not be subject to exemption.
- 4. Wastes associated with transportation are not exempt. The point of custody transfer, or of production separation and dehydration, may be used as evidence in making this determination.

As shown on the enclosed table, EPA has used these criteria to tentatively designate various wastes as exempt or not exempt. This table was taken from our October 31, 1986 Technical Report on wastes from the extraction of oil, gas and geothermal energy (copy enclosed). The Agency is aware that this list does not include all waste streams found at oil, gas, or geothermal energy extraction facilities. Therefore, EPA invites commenters to specifically describe other pertinent waste streams and to articulate, in terms of the above criteria, whether they believe these additional streams are exempted by Section 3001(b)(2)(A). EPA also invites comment on these criteria themselves and on the appropriateness of the tentative classification shown on

- The term extraction is defined to include exploration, development, and production activities for oil, gas, and geothermal energy.
- 3 Thus, wastes associated with such processes as oil refining, petrochemical-related manufacturing, or electricity

generation from geothermal energy are not exempt.

NMED OGC

the table. However, we believe this interpretation is consistent with the final "Small Quantity Generator" regulation promulgated on March 24, 1986 (51 FR 10146, copy enclosed); see especially page 10162 for a discussion of the applicability of that rule to offshore oil rigs).

Consistent with the Small Quantity Generator regulation, EPA's Region 6 office in Dallas has distributed "notices of hazardous waste registration requirements". They are being distributed only as a result of inquiries or requests in order to aid parties in fulfilling responsibilities which they consider to be theirs under the law. Because EPA did not seek data from these facilities requesting information on our Small Quantity rule, we are unable to determine whether their waste streams meet the four criteria discussed above.

I trust this clarifies the Agency's current assessment of the scope of the exemption. If I can be of any further assistance, please let me know.

Sincerely,

Original Document signed "Jack W. McGraw for"

J. Winston Porter Assistant Administrator

Enclosures (3)

FAX NO. 505 8271628

Part 2

#### NEW MEXICO ENVIRONMENT DEPARTMENT

#### MULTI-PARTY

#### FACSIMILE MESSAGE COVER SHEET

TO

FROM

ATTENTION:	DATE: June 24, 1996
Jennifer Salisbury	438-3855
Roger Anderson, OCD	438-3855
Richard Virtue	983-8304
Joe Hulscher, TPC	2650790
SUBJECT:	NAME: Ed Kelley
DIVISION:	DIVISION: Office of General Counsel
TOTAL PAGES:	FAX PHONE NO. 827-1628 - NOTE NEW #

MESSAGE:

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#### NEW MEXICO ENVIRONMENT DEPARTMENT

#### MULTI-PARTY

#### FACSIMILE MESSAGE COVER SHEET

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1190 St. Francis Drive Post Office Box 26110 Santa Fe, New Mexico 87502 PHONE: (505) 827-2990 FAX: (505) 827-1628 Compliance Monitoring/Enforcement Office of Waste Management Division of Environmental Protection 1356 Hansford Street Charleston, West Virginia 25301-1401

Dear Mr. Dorsey:

i.

I am responding to your August 30, 1993, request to clarify certain issues regarding oil and gas wastes. I understand that you have corresponded and have had extensive conversations with Mike Fitzpatrick of my staff regarding the March 22, 1993, Federal Register (FR) notice that clarifies the scope of the Resource Conservation and Recovery Act (RCRA) Subtitle C hazardous waste exemption for oil and gas exploration and production wastes. I further understand that, at the invitation of David Flannery (representing the Appalachian producers), Mike visited certain sites in West Virginia with you and industry representatives to gather information relative to the issues you have raised. I am responding to the issues that were raised in your letters and conversations with him. I believe that you have raised three principal issues, which I will address below.

The first issue concerns the application of the language in the March 22, 1993, FR notice that addresses gas plants to natural gas compressor stations in West Virginia. The scenario used for defining the scope of the exemption in the regulatory determination and subsequent FR clarification does not precisely correspond to the typical natural gas production process used in Appalachian States. It has been our position that, while natural gas exploration and production (E&P) occurs at the wellhead, up through the gas plant, and at natural gas storage fields, E&P does not include transportation of gas once it has left the gas plant, compressor stations located downstream from the gas plant, or manufacturing activities. Since the Subtitle C exemption applies only to E&P activities, solid wastes generated from these transportation, compression or manufacturing activities would not be exempt from subtitle C regulation.

The FR notice did not intend to imply, however, that wastes from all compressor stations are outside the E&P exemption; only those wastes from compressor stations that are part of transportation are subject to Subtitle C. In EPA's opinion, those compressor stations on main trunk pipelines handling any natural gas produced outside the state (or produced outside of "local")

The third issue concerns the regulatory status of certain oil and gas wastes, including unused commercial chemical products. In the FR clarification notice, EPA stated a general "rule of thumb" that, in order for a waste to be considered exempt, it must either come from "down-hole," or come in contact with the production stream for the purpose of removing produced water or some other contaminant. (Generally, when a product is used in E&P and becomes a uniquely associated waste, it has either been sent down-hole or has come in contact with the production stream.) The Agency stopped short of saying this rule of thumb was more binding than a general quideline. However, we believed that it was useful to provide the rule of thumb as a general, easy-to-understand guideline that can be used by operators as a first step in determining if a waste is exempt or not.

The industry view is that the rule of thumb limiting exempt wastes to those that have come from down-hole is too narrow in that it does not include unused materials spilled or left as residuals on site. The Agency disagrees, however, with the view that discarded unused materials are, or should be, exempt wastes. First, EPA does not believe that placing excess and unused materials that exhibit one or more of the hazardous characteristics in a reserve pit is an environmentally sound practice. Moreover, it continues to be the Agency's position that, in general, a waste must either have come from down-hole or have otherwise come in contact with the production stream for the purpose of removing contaminants in order to be considered uniquely associated with efforts to locate or remove oil or gas from the ground. Regardless of the intent in preparing the material, only used, and therefore uniquely associated, wastes are exempt.

Although this interpretation may cause a shift in some previous industry practices that have routinely placed some unused materials in reserve pits, it may also encourage operators to practice waste minimization and pollution prevention by planning more carefully for the volumes needed, looking for ways to conserve resources and increase recycling of unused materials, improving housekeeping procedures, and selecting less toxic ingredients for formulations whenever possible. We recognize that it will not, however, eliminate all excess materials since not all contingencies can be planned for when mixing drilling and workover fluids.

Nonetheless, the Agency continues to assert that unused chemical products, if disposed of, are not exempt from hazardous waste regulation. This position is consistent with the language of

the Regulatory Determination (53 FR 25454, July 6, 1988) and subsequent clarification notice (58 FR 15286, March 22, 1993). Only a reopening of the Regulatory Determination, through a new rulemaking process, could change the Agency's position on unused material. Such an effort is not being contemplated by EPA.

To the extent that unused materials are hazardous only because of their corrosivity (e.g., completion and workover fluids), these unused acids can be treated (neutralized) by "totally enclosed treatment" (in the same tanks used to hold the workover fluids prior to use) without subjecting operators to Subtitle C jurisdiction. In that case, the neutralized waste likely would not exhibit a hazardous characteristic. There are no federal prohibitions on placing non-hazardous unused products in the reserve pit.

If you have any additional questions concerning these matters, please call Mike Fitzpatrick at (703) 308-8411.

Sincerely, Bruce R. Weddle, Acting Director Office of Solid Waste

- As discussed in the FR notice, operations to recover natural gas stored in underground natural geological formations (not underground tanks) are considered part of production, not transportation. This is because these facilities are operated in the same way as if the gas were being produced for the first time. Therefore, uniquely associated wastes from compressor stations dedicated solely to the retrieval of natural gas from underground storage facilities are exempt regardless of the origin of that gas.
- CC: David M. Flannery, Robinson & McElwee; Ramona Trovato,
  Director, Ground Water Protection Division, Headquarters;
  Randy Hill, Office of General Counsel; Water Management
  Division Directors, Regions I X; Hazardous Waste
  Management Division Directors, Regions I X; Theodore M.
  Streit, Chief, Office of Oil and Gas, West Virginia
  Division of Environmental Protection

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#### 40 CFR Ch. I (7-1-95 Edition)

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(6) Pulping liquors (i.e., black liquor) that are reclaimed in a pulping liquor recovery furnace and then reused in the pulping process, unless it is accumulated speculatively as defined in §261.1(c) of this chapter.

(7) Spent sulfuric acid used to produce virgin sulfuric acid, unless it is accumulated speculatively as defined in §261.1(c) of this chapter.

(8) Secondary materials that are reclaimed and returned to the original process or processes in which they were generated where they are reused in the production process provided:

(1) Only tank storage is involved, and the entire process through completion of reclamation is closed by being entirely connected with pipes or other comparable enclosed means of conveyance:

(ii) Reclamation does not involve controlled flame combustion (such as occurs in boilers, industrial furnaces, or incinerators):

(iii) The secondary materials are never accumulated in such tanks for over twelve months without being reclaimed; and

(iv) The reclaimed material is not used to produce a fuel, or used to produce products that are used in a manner constituting disposal.

(9)(i) Spent wood preserving solutions that have been reclaimed and are reused for their original intended purpose; and

(ii) Wastewaters from the wood preserving process that have been reclaimed and are reused to treat wood.

(10) EPA Hazardous Waste Nos. K060. K087, K141, K142, K143, K144, K145, K147, and K148, and any wastes from the coke by-products processes that are hazardous only because they exhibit the Toxicity Characteristic (TC) specified in section 261.24 of this part when, subsequent to generation, these materials are recycled to coke ovens, to the tar recovery process as a feedstock to produce coal tar, or mixed with coal tar prior to the tar's sale or refining. This exclusion is conditioned on there being no land disposal of the wastes from the point they are generated to the point they are recycled to coke

#### **Environmental Protection Agency**

ovens or tar recovery or refining processes, or mixed with coal tar.

(11) Nonwastewater splash condenser dross residue from the treatment of K061 in high temperature metals recovery units, provided it is shipped in drums (if shipped) and not land disposed before recovery.

(12) Recovered oil from petroleum refining, exploration and production, and from transportation incident thereto, which is to be inserted into the petroleum refining process (SIC Code 2911) along with normal process streams prior to crude distillation or catalytic cracking. This exclusion applies to recovered oil stored or transported prior to insertion, except that the oil must not be stored in a manner involving placement on the land, and must not be accumulated speculatively, being so recycled. Recovered oil is oil that has been reclaimed from secondary materials (such as wastewater) generated from normal petroleum refining, exploration and production, and wansportation practices. Recovered oil includes oil that is recovered from refinery wastewater collection and treatment systems, oil recovered from oil and gas drilling operations, and oil recovered from wastes removed from crude oil storage tanks. Recovered oil does not include (among other things) oil-bearing hazardous wastes listed in 40 CFR part 261 D (e.g., K048-K052, F037, F038). However, oil recovered from such wastes may be considered recovered oil. Recovered oil also does not include used oil as defined in 40 CFR 279.1.

(b) Solid wastes which are not hazardous wastes. The following solid wastes are not hazardous wastes:

(1) Household waste, including household waste that has been collected, transported, stored, treated, disposed, recovered (e.g., refuse-derived fuel) or reused. "Household waste" means any material (including garbage, trash and sanitary wastes in septic tanks) derived from households (including single and multiple residences, hotels and motels, bunkhouses, ranger stations, crew quarters, campgrounds, picnic grounds and day-use recreation areas). A resource recovery facility managing municipal solid waste shall not be deemed to be treating, storing, disposing of, or otherwise managing hazardous wastes for the purposes of regulation under this subtitle, if such facility:

(i) Receives and burns only

(A) Household waste (from single and multiple dwellings, hotels, motels, and other residential sources) and

(B) Solid waste from commercial or industrial sources that does not con-

tain hazardous waste: and

(ii) Such facility does not accept hazardous wastes and the owner or operator of such facility has established contractual requirements or other appropriate notification or inspection procedures to assure that hazardous wastes are not received at or burned in such facility.

(2) Solid wastes generated by any of the following and which are returned

to the soils as fertilizers:

(i) The growing and harvesting of agricultural crops.

(ii) The raising of animals, including animal manures.

(3) Mining overburden returned to the mine site.

(4) Fly ash waste, bottom ash waste, slag waste, and flue gas emission control waste, generated primarily from the combusion of coal or other fossil fuels, except as provided by §266.112 of this chapter for facilities that burn or process hazardous waste.

(5) Drilling fluids, produced waters, and other wastes associated with the exploration, development, or production of crude oil, natural gas or geo-

thermal energy.

(6)(i) Wastes which fail the test for the Toxicity Characteristic because chromium is present or are listed in subpart D due to the presence of chromium, which do not fail the test for the Toxicity Characteristic for any other constituent or are not listed due to the presence of any other constituent, and which do not fail the test for any other characteristic, if it is shown by a waste generator or by waste generators that:

(A) The chromium in the waste is exclusively (or nearly exclusively) tri-

valent chromium; and

(B) The waste is generated from an industrial process which uses trivalent chromium exicusively (or nearly exclusively) and the process does not generate hexavalent chromium; and

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production", as described below) would be considered to be part of transportation and would be regulated. In Appalachia, those compressor stations handling only "local production" would qualify for the exemption as the equivalent of gas plants (see footnote 1).

As used in this letter, the term "local production" refers to gas produced from a single nearby gas field or several nearby fields, as determined by the state oil and gas regulatory agency. Once gas from outside the local production area (again, as defined by the state regulatory agency) is commingled with gas from within the local area, then the pipeline facilities and compressor stations beyond that point would no longer be E&P operations, and wastes generated are no longer considered exempt wastes (with the footnoted exception for gas storage fields) even if additional local production feeds into the system downstream from the point of commingling. Similarly, once gas leaves the gathering system for transportation or sale to a consumer, it would no longer be part of E&P and any wastes generated would be subject to Subtitle C if they exhibited one or more hazardous characteristics.

The second issue concerns exempt wastes that are mismanaged and that may pose an environmental threat. You have expressed your desire that the environmentally unsound handling or disposal of exempt wastes should result in the loss of the exemption for these wastes since there are no other regulatory schemes designed to address the hazardous nature of these wastes.

In light of Congressional intent, EPA does not classify a waste as exempt or not exempt based on the way in which that particular waste is managed (or mismanaged), nor does EPA base its definition of what constitutes an exempt waste on whether or not the waste is managed in compliance with state regulations. As far as Federal regulations are concerned, once a particular exempt waste was generated, that waste would remain exempt regardless of the treatment or disposal method employed (unless mixed with certain regulated hazardous wastes). The mishandling of exempt wastes is a state regulatory and enforcement issue. States are free to develop regulations which are more stringent or broader in scope than Federal Subtitle C regulations. Also, state requirements may be developed to address the mismanagement of wastes which are exempt from Subtitle C -- that is, the state's solid waste or hazardous waste regulations can be used to regulate the management of federally exempt wastes, if the state's legislation provides such authority.

## Transwestern Pipeline Company

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J. A. "Joe" Hulscher Vice President Operations Summit Office Bldg., Ste. 250 4001 Indian School Rd., NE Albuquerque, NM 87110 Direct (505) 260-4001 Houston (713) 853-7794

June 4, 1996

Mr. Mark Weidler, Secretary New Mexico Environmental Department Post Office Box 26110 Santa Fe, New Mexico 87502-6110

Transwestern Pipeline Company - Roswell

Dear Secretary Weidler:

This letter is intended to report to you on the progress made since our meeting in March:

Transwestern is in the process of preparing an alternative to the RCRA closure plan pursuant to your letter to me following our meeting. The process of developing an alternative has been ongoing since the meeting. On April 1 our attorneys met with Susan McMichael of your legal staff to discuss potential approaches to this site. At the meeting Ms. McMichael requested that we prepare a comparison of the OCD assessment plan with the modified closure plan that Transwestern has submitted to NMED and withdrew in January. The comparison was submitted to NMED by letter dated April 23.

Our respective attorneys have discussed possible guidelines to use in drafting a remediation agreement. Ms. McMichael has provided Transwestern's attorneys with some citations to EPA proposals that may be of assistance, and our attorneys are now analyzing potential formats. In addition, our technical staff is preparing a remediation plan to address NMED's concerns.

We hope to present a proposal to NMED in the near future. Please contact me if you would like to discuss the status of this matter further.

Very truly yours,

Joe A. Hulscher

Vice President, Operations

cc:

Benito Garcia, HRMB Susan McMichael, Esq. Roger Anderson, OCD Lou Soldano, Esq. Richard Virtue, Esq.

## **ENRON**OPERATIONS CORP.

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P. O. Box 1188 Houston, Texas 77251-1188 (713) 853-6161

April 23, 1996

Mr. Benito Garcia
Hazardous and Radioactive Materials Bureau
New Mexico Environment Department
Harold Runnels Bldg.
P. O. Box 26110
Santa Fe, NM 87502

RE: Transwestern Pipeline Company Roswell Compressor Station

Dear Mr. Garcia:

During a recent meeting on April 1, 1996, between counsel for Transwestern and the NMED, it was agreed that Transwestern would prepare a brief description of the technical differences between the NMED HRMB modified closure plan (Closure Plan) assessment activities and the Phase II Soil and Ground Water Assessment Plan (Phase II Plan) currently under review by the OCD.

It is important to note that there are many more similarities than there are differences between the assessment activities described in the Closure Plan and those described in the Phase II Plan. However, for the purposes of this comparison, the more significant differences between the two plans are highlighted.

In general, the two plans differ in breadth of scope, that is, the Closure Plan attempts to prescribe all assessment activities from start to finish, whereas, the Phase II Plan is intended to supplement the Phase I assessment activities completed in August, 1995, and any additional assessment activities necessary to effectively characterize the site. In other words, the Phase I activities, plus the Phase II Plan activities, plus additional assessment activities, if any, have been developed to accomplish the same objectives set out by the Closure Plan. Therefore, for the purpose of making the attached comparison, the Phase I activities along with the Phase II Plan activities will be considered together when compared to the Closure Plan, which will be considered the basis for this comparison.

It should be noted that compared to the complexity of the modified Closure Plan document, the Phase II Plan document is relatively simple and straight forward. As was discussed at our last meeting in early March, Transwestern is interested in obtaining comments from your office prior to proceeding with the Phase II Plan activities to avoid any unnecessary duplication of efforts and delay in remediation. I hope the attached

Mr. Benito Garcia April 23, 1996 Page 2

comparison is helpful to that end.

Transwestern is continuing its work on a remediation plan for the site that will be satisfactory to both the NMED and OCD and hopes to provide that to your department in the near future.

Sincerely,

Bill Kendrick

**Environmental Affairs** 

Hon. Mark E. Weidler xc:

Roger Anderson

Henduh

Richard Virtue, Esq.

Larry Campbell Lou Soldano, Esq.

George Robinson, PE

NMED Cabinet Secretary

**NMOCD** 

Taichert, Wiggins, Virtue & Najjar

Transwestern Pipeline Company

**EOC Legal Counsel** 

Cypress Engineering Services, Inc.

Mr. Benito Garcia April 23, 1996 Attachment - Page 1

#### Attachment

## Brief description of the technical differences between the Closure Plan and the Phase II Plan assessment activities.

#### Waste and Unit Characterization Strategy (Section 4.0 of the Closure Plan)

Although this phase of assessment within the Closure Plan is assigned the misleading heading "Waste and Unit Characterization Strategy" (misleading because there is neither waste or a waste unit at this site to characterize), its primary objectives are: 1) to confirm the presence of the four potential source areas identified by historical reviews and prior assessments; and 2) to identify constituents of concern in affected soil.

Two of the four potential source areas (identified in the Closure Plan as the Pit 1 and Pit 2 areas) were assessed in August, 1995, in the course of the "at risk" assessment activities completed as described in the Phase I Soil and Ground Water Assessment report dated November 8, 1995. These activities mirrored those described in the Closure Plan with the exception that soil samples were not analyzed by EPA method 8040. Method 8040 is a method for the detection of phenol compounds and was excluded for several reasons: 1) Transwestern has no reason to suspect phenol compounds to be constituents of concern; 2) the more common phenol compounds could be detected by EPA method 8270 which was included in the Phase I analytical program; and 3) very few laboratories, including CORE Lab's laboratory in Denver (Transwestern's contract lab for this assessment), are set up to run EPA method 8040 because it is only rarely used.

The other two potential source areas (identified in the Closure Plan as the Pit 3 and SG 86 areas) are scheduled to be addressed by the Phase II Plan. The only deviations from the Closure Plan are: 1) the collection of one soil sample from each potential source area for laboratory analysis rather than two samples; and 2) the use of EPA method 8270 to detect phenol compounds rather than EPA method 8040 as previously described.

#### Soil Assessment (Section 4.7 of the Closure Plan)

The objective of this phase of assessment, as stated in the Closure Plan, is the delineation of the lateral and vertical extent of affected soil beneath and adjacent to the former impoundments.

Per the Closure Plan, this would be accomplished by an iterative process beginning with four soil borings advanced 300 feet north, south, east, and west of the center of Pit 1. Additional borings would be drilled contingent on the outcome of the four original borings. Soil samples were to be collected every 10 feet and delivered to a lab for analysis. The analyte list was to be developed subsequent to the "Waste and Unit Characterization".

The Phase II Plan will accomplish the same objective but with a slightly different selection of boring locations. Per the Phase II Plan, six soil borings (one being the MW-7 boring and the

Mr. Benito Garcia April 23, 1996 Attachment - Page 2

other five the proposed monitor well locations as shown in the attached figure) will define the lateral extent of affected soil. A contingency is planned for the field selection of additional boring locations if needed to meet the objective. Soil samples will be collected every 10 feet and screened in the field with two samples from each boring delivered to a lab for analysis for volatile organic compounds (method 8010/8020) and total petroleum hydrocarbons (method 418.1).

#### Ground Water Assessment Plan (Section 5.0 of the Closure Plan)

The objective of this phase of assessment is to characterize affected ground water. Per the Closure Plan, this would be accomplished by a two phase process.

The first phase of the Closure Plan process would be to install three monitor wells downgradient of the former impoundments. The locations of these wells are drawn in on the attached figure. One of the three locations is at the same location as the monitor well MW-7 which was installed during the August, 1995, assessment activities. A second location is approximately 25 feet from the Phase II Plan proposed MW-12 location. The third location is approximately 65 feet from the Phase II Plan proposed MW-14 location. Note that the proposed Phase II Plan also includes three additional monitor wells at locations not covered by the Closure Plan activities (proposed monitor well locations MW-10, MW-11, and MW-13 as shown in the attached figure).

The analytical requirements of the first phase of the Closure Plan process included full 40 CFR Appendix IX constituents plus any additional constituents identified from the soil assessment activities. The Phase II Plan analytical program includes VOCs (method 8010/8020), PAHs (method 8100), major ions, total dissolved solids, and metals regulated by the NMWQCC.

The second phase of the Closure Plan ground water assessment process (Section 5.8 of the Closure Plan) called for the installation of additional monitor wells to be located 200 feet downgradient and lateral of any Phase I (that is, Phase I of the Closure Plan) monitor well for which a ground water sample indicates a constituent of concern above an action level. The proposed Phase II Plan does not attempt to prescribe further assessment in the event a Phase II monitor well location proves to be affected, rather, this is deferred to either a decision to be made in the field during the Phase II assessment activities or to a Phase III Plan which would be carried out soon after the completion and evaluation of Phase II information.

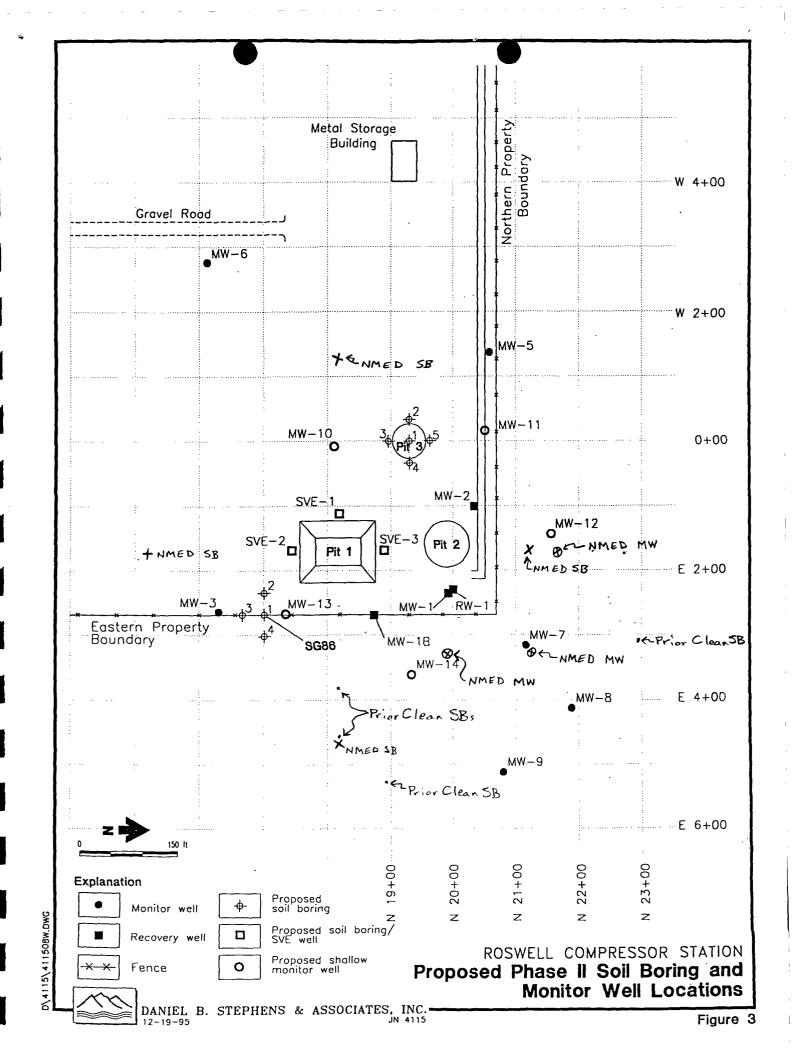
The second phase of the Closure Plan ground water assessment also called for the installation of a deeper aquifer ground water monitor well located downgradient of the former surface impoundments. The proposed Phase II Plan has deferred this activity to a Phase III Plan which would be carried out soon after the completion and evaluation of Phase II information.

#### Other (Activities not defined in the Closure Plan)

Although the Closure Plan makes reference that a corrective measures study (CMS) would be

Mr. Benito Garcia April 23, 1996 Attachment - Page 3

incorporated into the closure process, no specifics are defined in the plan. Based on Transwestern's experience with similar petroleum hydrocarbon release sites, it can be fairly certain that soil vapor extraction (SVE) will be an integral part of any corrective measures proposal developed for this site. Therefore, Transwestern has included in the Phase II Plan provisions for a limited duration SVE pilot test to be completed. Information obtained from a pilot test early in the closure process will give Transwestern a considerable jump on development and evaluation of more specific corrective measures options.



March 14, 1996

#### <u>MEMORANDUM</u>

TO:

Jennifer Salisbury, Bill LeMay, Lyn Hebert,

Rand Carroll and Roger Anderson

FROM:

Carol Leach

SUBJECT: Transwestern and ED

Tuesday I received a call from Lou Soldano, an attorney for Transwestern (TW). He told me about the meeting TW had with ED. He was concerned because Secretary Weidler seemed to think that OCD only had authority to clean up hydrocarbons. My recollection was that at our meeting with ED, Mark specifically asked Roger about this and asked about the standard for the specific solvent in question and was told we clean up everything at the site to the WQCC standard, or a more stringent one.

Anyway, the meeting was confusing to Lou because ED still wants a closure plan from TW as indicated in the attached letter. Lou was not sure if the plan was to meet all RCRA requirements or not. In Lou's view, most of he meeting was devoted to ED scolding TW.

Roger says his recent conversations with Benito also indicate some differing understandings about how we are to proceed. Benito indicates that they will review our workplan for TW, but will also proceed on their own track.

I had really thought we were making some progress, but it does not appear to be the case. I have several calls into ED's attorney, but have not reached her.

We may need a meeting for additional clarification.



GARY E. JOHNSON GOTERNOR

## State of New Mexico ENVIRONMENT DEPARTMENT

Harold Runnels Building
1190 St. Francis Drive, P.O. Box 26110
Santa Fe, New Mexico 87502-0110
Telephone (505) 827-2855
Fax (505) 827-2836



MARK E. WEIDLER Secretary

EDGAR T. THORNTON DEPUTY SECRETARY

Mr. J. A. Hulscher Vice President Operations Transwestern Pipeline Co. Summitt Office Bldg., Ste. 250 4001 Indian School Rd., NE Albuquerque, NM 87110

Dear Joe:

We appreciate that you and various staff came to our office to visit about the jurisdictional issues and the contaminant problems at the No. 9 Station north of Roswell.

As mentioned we cannot abrogate our statutory responsibilities. However, we want to minimize duplication of efforts that can result from response to two agencies. We trust that the briefing I gave will help you understand these matters from our perspective. TPL needs to move forward with the Closure Plan submitted over a year ago and amended and annotated by our staff; or, submit an alternate plan that is acceptable to us and adequately addresses the RCRA waste(s) at the site.

We look forward to your response.

Sincerely,

Mark E. Weidler

Secretary

CC: Benito Garcia, Chief, HRMB

Susan McMichael

### ENRON **OPERATIONS CORP.**

(713) बर्ड्डिशिवि १९७० मा ८ 52

P. O. Box 1188

Houston, Texas 77251-1188

March 13, 1996

#### VIA FEDERAL EXPRESS

Mr. Benito Garcia Hazardous and Radioactive Materials Bureau New Mexico Environment Department Harold Runnels Bldg. P. O. Box 26110 Santa Fe, NM 87502

RE: **Transwestern Pipeline Company** 

**Roswell Compressor Station** 

#### Dear Benito:

As you may recall, a great deal of discussion at our meeting last week centered around a shallow soil gas survey conducted for Transwestern in 1990. Concerns were raised as to whether or not Transwestern's proposed Phase II assessment plan, which Transwestern provided to the HRMB staff in December, 1995, adequately addressed possible TCA contamination identified in the survey (see attached Figure 3-2 from the January, 1995, closure plan). Because a considerable amount of time had passed since the soil gas survey, recalling the details of that event during our meeting was difficult at best. However, as I indicated during the meeting, the soil gas survey issue had been addressed with soil borings and soil sample analysis. That information has been made available to the HRMB and the OCD for review as presented below.

The first soil borings drilled to assess the apparent TCA soil gas plume were drilled during Spring 1990 by HLA. During this assessment, three soil borings were advanced near the center of the soil gas plume and two borings were advanced at the perimeter (see attached Figure 3-3 from the January, 1995, closure plan). Soil sample analyses for halocarbons were completed in an on-site lab on samples from two of the five soil borings, SB9-6 and P9-OS-349. The soil sample analysis results from these two borings indicated the samples were non-detect for 1,1,1-TCA (see attached Table 3-2 pages 1 & 2 from the January, 1995, closure plan).

The second set of soil borings drilled to assess the apparent TCA soil gas plume were drilled during mid-1991 by Metric Corporation. One of the primary objectives of this assessment was to re-evaluate the apparent TCA soil gas plume due to questionable analytical methods and quality assurance measures utilized by the on-site lab used during the previous assessment program. During the Metric assessment, three soil borings were advanced near the center of the soil gas plume and one boring was advanced at the perimeter (see attached Figure 3-4 from the January, Mr. Benito Garcia March 13, 1996 Page 2

1995, closure plan). Soil sample analyses were completed for 22 soil samples collected from these four soil borings. The soil sample analysis results indicated the samples were all non-detect for 1,1,1-TCA (see attached Table 3-2 pages 3-5 from the January, 1995, closure plan). Note that seven of the soil samples analyzed were obtained from a boring, SG-349, which was located adjacent to the location of the highest soil gas measurement.

Although it appears to Transwestern that the issue of adequate characterization of the apparent soil gas plume has been properly addressed, Transwestern is taking another close look at the entire plan and would appreciate any comments or suggestions you or your staff may have with respect to the proposed Phase II assessment plan, including any issues related to the soil gas surveys.

Please contact me at your earliest convenience at (713) 853-7644 so that we may discuss this specific issue in greater detail.

Sincerely,

Bill Kendrick

Manager, Projects Group Environmental Affairs Dept.

Kenduch

xc:

Mark Weidler

Susan McMichaels, Esq.

Roger Anderson

Joe Hulscher

Larry Campbell

George Robinson, P.E.

Lou Soldano, Esq.

Richard L. C. Virtue, Esq.

NMED Secretary

NMED Office of the General Counsel

NMOCD

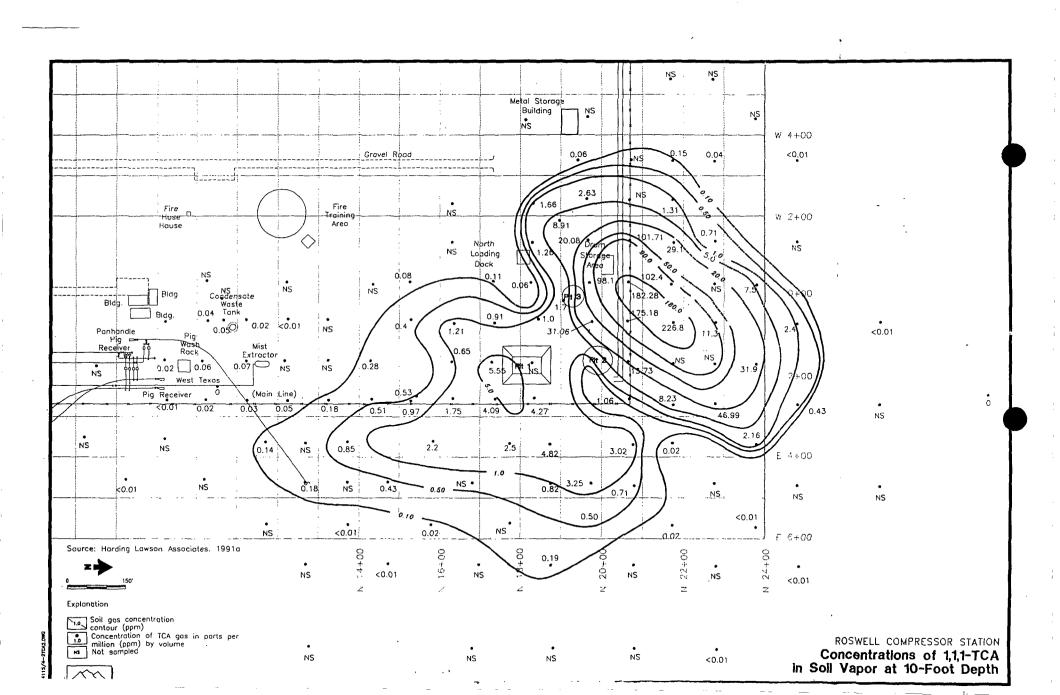
Transwestern Pipeline Company

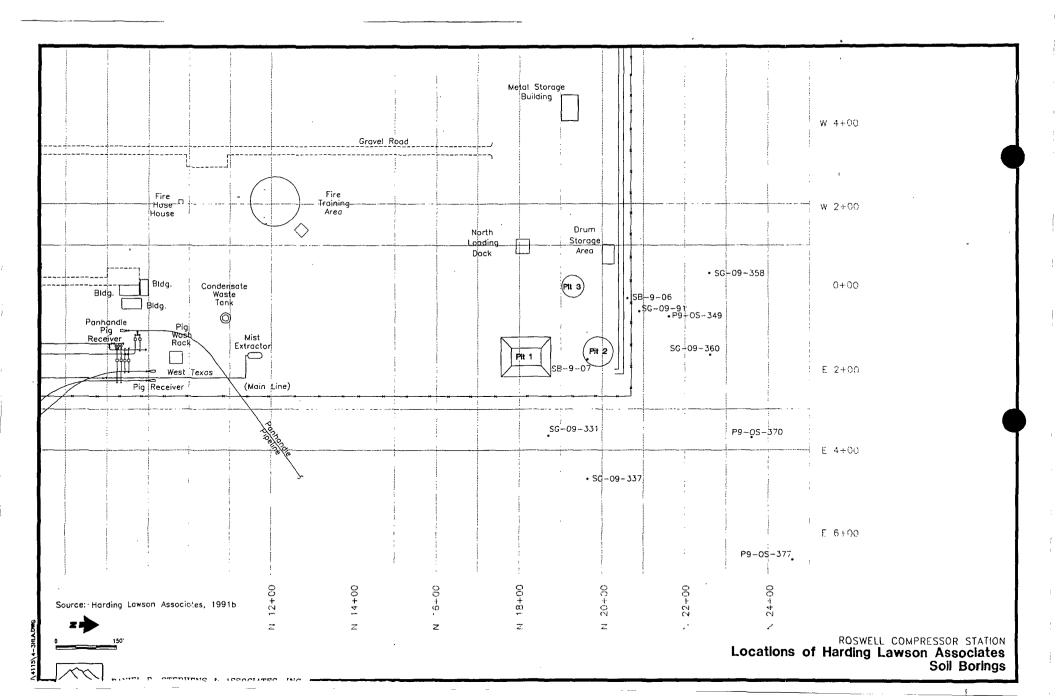
Transwestern Pipeline Company

Cypress Engineering Services

ENRON Operations Corp.

Taichert, Wiggins, Virtue & Najjar





Metal Storage Building W 4+00 Fire Fire Training-Areo W 2+00 Drum North Loading Dock Storage Candensate Waste Tank 0+00 Bldg. \*SG 349 Panhandle PIT 3 BH-2 · Mist Extractor BH-11 Wash Rack •SG 360 E 2±00 West Texas Pig Receiver (Main Line) •SG 361 SG 86 OS BH-2 05 BH-1 •ds BH-4 . OS BH-5 E 4+00 OS BH-8 OS BH-6 OS BH-9 OS BH-7 E 6+00 24 - 00Source: Metric Carporation, 1991

115/4-4MC.DWG

ROSWELL COMPRESSOR STATION
Locations of Metric Corporation
Soil Borings

ENVIRONMENTAL SCIENTISTS AND ENGINEERS

#### Table 3-2. Summary of Organic Compounds Detected in Soil Samples Roswell Compressor Station No. 9 Page 1 of 6

			Concentration <sup>1</sup>												
Sample ID	Source <sup>2</sup>	1,1,1-TCA	1,1-DCA	Acetone	Chloro- benzene	Chloro- form	PCA	PCE	Freon- 113	Methylene chloride	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPH (mg/kg)
SB9-6 @ 8-11'	HLA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<20
SB9-6 @ 18-20'	HLA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<20
SB9-6 @ 20-23'	HLA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	120
SB9-6 @ 26-28'	HLA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<20
SB9-6 @ 26-28' Tube #5	HLA	<5	ND	<10	<5	ND	<5	ND	6	16	ND	ND	<5	<5	<20
SB9-6 @ 26-28' Tube #6	HLA	<7	ND	<14	<7	ND	<7	ND	23*	9*	ND	ND	<7	<7	<20
SB9-7 @ 9-12'	HLA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1100
SB9-7 @ 21.5-24'	HLA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2000
SB9-7 @ 25.5-28'	HLA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2500
SB9-7 @ 29-32'	HLA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11000
SB9-7 @ 29-32' Tube #7	HLA	<1300	ND	<2600	<1300	ND	<1300	ND	5100	<1300	ND	ND	720	1800	5000
SB9-7 @ 35-37'	HLA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4600
SB9-7 @ 35-37' Tube #8	HLA	<640	ND	<1300	<640	ND	<640	ND	<640	<640	ND	ND	1800	4200	13000
SB9-7 @ 35-37' Tube #9	HLA	2000	ND	<1300	<670	ND	2100	ND	<670	<670	ND	ND	2800	6500	30000
P9-OS-349 @ 5'	HLA	<5	ND	<11	<5	ND	<5	ND	26*	6*	ND	ND	<5	<5	<20
P9-OS-349 @ 10'	HLA	<6	ND	<11	<6	ND	<6	ND	18	9	ND	ND.	<6	<6	100
P9-OS-349 @ 20'	HLA	<5	ND	<11	<5	ND	<5	ND	45*	<5*	ND	ND'	<5	<5	<20
P9-OS-349 @ 25'	HLA	<5	ND	<11	<5	ND	<5	ND	21	10	ND	ND	<5	<5	100

<sup>&</sup>lt;sup>1</sup> Concentrations are in μg/kg unless otherwise noted

Metric = Metric Corporation (1991)

B&R = Brown and Root Environmental (1993)

Note: All HLA analyses performed in on-site mobile laboratory

1,1,1-TCA = 1,1,1-Trichloroethane

1,1-DCA = 1,1-Dichloroethane PCA = Tetrachloroethane

PCE = Tetrachloroethene

Freon-113 = 1,1,2-Trichloro-1,2,2-trifluoroethane

TPH = Total petroleum hydrocarbons NA = Not analyzed ND = Not detected

<sup>&</sup>lt;sup>2</sup> HLA = Harding Lawson Associates (1991a)



#### DANIEL B. STEPHENS & ASSOCIATES, INC.

ENVIRONMENTAL SCIENTISTS AND ENGINEERS

Table 3-2. Summary of Organic Compounds Detected in Soil Samples
Roswell Compressor Station No. 9
Page 2 of 6

								Conce	ntration <sup>1</sup>			7		erge maria, privage priving maria	
Sample ID	Source <sup>2</sup>	1,1,1-TCA	1,1-DCA	Acetone	Chloro- benzene	Chloro- form	PCA	PCE	Freon- 113	Methylene chloride	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPH (mg/kg)
P9-OS-349 @ 30'	HLA	<7	ND	<14	<7	ND	<7	ND	45 <b>*</b>	<7	ND	ND	<7	<7	<20
P9-OS-349 @ 35'	HLA	<7	ND	<14	<7	ND	<7	ND	39	15	ND	ND	<7	<7	<20
P9-OS-349 @ 40'	HLA	<5	ND	<10	<5	ND	<5	ND	40	8	ND	ND	<5	<5	<20
P9-OS-377 @ 5'	HLA	<6	ND	34*	<6	ND	<6	ND	<6	<6	ND	ND	<6	<6	200
P9-OS-377 @ 10'	HLA	<6	ND	27*	<6	ND	<6	ND	<6	<6	·ND	ND	<6	<6	<20
P9-OS-377 @ 15'	HLA	<6	ND	27*	<6	ND	<6	ND .	<6	11	ND	ND	<6	<6	<20
P9-OS-377 @ 20'	HLA	<7	ND	37⁺	<7	ND	<7	ND	<7	7	ND	ND	<7	<7	<20
P9-OS-377 @ 25'	HLA	<6	ND	<12	<6	ND	<6	ND	46	36	ND	ND	<6	<6	<20
P9-OS-377 @ 30'	HLA	<7	ND	<13	<7	ND	<7	ND	69	23	ND	ND	<7	<7	<20
Pit 1 @ 2.8-3.0'	Metric	3200	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	25000
Pit 1 @ 9.2-9.4'	Metric	19000	ND	NA	ND	ND	ND	260	NA	ND	NA	NA	NA	NA	39000
Pit 1 @ 13.5-13.7'	Metric	18000	590	NA	ND	200	ND	330	NA	ND	NA	NA	NA	NA	55000
Pit 1 @ 18,8-19.0'	Metric	330	ND	NA	ND	ND	ND	870	NA	ND	NA	NA	NA	NA	20000
Pit 1 @ 26.8-27.0'	Metric	ND	ND	NA	ND	ND	ND	160	NA	ND	NA	NA	NA	NA	11000
Pit 1 @ 30,6-30.8'	Metric	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	16
Pit 1 @ 41,6-41.8'	Metric	ND	ND	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	16
Pit 1 @ 43,5-43.7'	Metric	ND	ND	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	56

<sup>&</sup>lt;sup>1</sup> Concentrations are in µg/kg unless otherwise noted

Metric = Metric Corporation (1991)

B&R = Brown and Root Environmental (1993)

Note: All HLA analyses performed in on-site mobile laboratory

1,1,1-TCA = 1,1,1-Trichloroethane

1.1-DCA = 1.1-Dichloroethane

PCA = Tetrachloroethane

PCE = Tetrachloroethene

Freon-113 = 1,1,2-Trichloro-1,2,2-trifluoroethane

TPH = Total petroleum hydrocarbons

NA = Not analyzed ND = Not detected

<sup>&</sup>lt;sup>2</sup> HLA = Harding Lawson Associates (1991a)

ENVIRONMENTAL SCIENTISTS AND ENGINEERS

Table 3-2. Summary of Organic Compounds Detected in Soil Samples
Roswell Compressor Station No. 9
Page 3 of 6

		<del></del> -	Concentration <sup>1</sup> Chloro- Chloro- Freon- Methylene Ethyl- Total TPH												
Sample ID	Source <sup>2</sup>	1,1,1-TCA	1,1-DCA	Acetone	Chloro- benzene	Chloro- form	PCA	PCE	Freon- 113	Methylene chloride	Benzene	Toluene	Ethyl- benzene		1 !
Pit 2 #1 @ 18.7-18.9'	Metric	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	ND
Pit 2 #2 @ 18.7-18.9'	Metric	370	ND	NA	ND	ND	ND	650	NA	ND	NA	NA	NA	NA	13000
Pit 2 @ 26.0-26.2'	Metric	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	170
Pit 2 @ 29.1-29.3'	Metric	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	ND
Pit 2 @ 39.8-39.9'	Metric	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	2600
Pit 2 @ 44.1-44.3'	Metric	ND	ND	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	44
Pit 2 @ 57.5-57.8'	Metric	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	250
Pit 2 @ 69.9-70.1'	Metric	ND	ND	NA	ND	ND	ND	, ND	NA	ND	ND	ND	ND	ND	ND .
Pit 3 BH-1 @ 30.7-30.9'	Metric	ND	ND	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	, ND	ND
Pit 3 BH-2 @ 25.0-25.2'	Metric	ND	ND	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND
SG 86 @ 13.5-13.7'	Metric	240	ND	NA	ND	ND	ND	1900	NA	ND	NA	NA	NA	NA	18000
SG 86 @ 18.7-18.9'	Metric	ND	ND	NA	ND	ND	ND	230	NA	ND	NA	NA	NA	NA	5200
SG 86 @ 24.9-25.1'	Metric	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	ND
SG 86 @ 35.0-35.2'	Metric	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	8.0
SG 86 @ 40.5-40.7'	Metric	ND	ND	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND
SG 91 @ 28.6-28.8'	Metric	ND	ND	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND
SG 349 @ 0.0-1.8'	Metric	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	ND
SG 349 @ 2.9-4.6'	Metric	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	ND

<sup>1</sup> Concentrations are in μg/kg unless otherwise noted

Metric = Metric Corporation (1991)

B&R = Brown and Root Environmental (1993)

Note: All HLA analyses performed in on-site mobile laboratory

1,1,1-TCA = 1,1,1-Trichloroethane

1,1-DCA = 1,1-1 inchioroethane

PCA = Tetrachloroethane

PCE = Tetrachloroethene

Freon-113 = 1,1,2-Trichloro-1,2,2-trifluoroethane

TPH = Total petroleum hydrocarbons

NA = Not analyzed ND = Not detected

<sup>&</sup>lt;sup>2</sup> HLA = Harding Lawson Associates (1991a)

ENVIRONMENTAL SCIENTISTS AND ENGINEERS

# Table 3-2. Summary of Organic Compounds Detected in Soil Samples Roswell Compressor Station No. 9 Page 4 of 6

				<del></del>			<del>دن دداردنا</del>	Conce	ntration <sup>1</sup>						
Sample ID	Source <sup>2</sup>	1,1,1-TCA	1,1-DCA	Acetone	Chloro- benzene	Chloro- form	PCA	PCE	Freon- 113	Methylene chloride	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPH (mg/kg)
SG 349 @ 9.0-10.0'	Metric	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	N
SG 349 @ 14.0-14.8'	Metric	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA ,	ND
SG 349 @ 20.3-21.3'	Metric	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	ND
SG 349 @ 5.3-26.3'	Metric	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	ND
SG 349 @ 29.7-30.4'	Metric	ND	ND	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND
SG 360 @ 0.0-2.5'	Metric	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	ND
SG 360 @ 4.0-5.0'	Metric	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	ND
SG 360 @ 9.0-9.9'	Metric	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	ND
SG 360 @ 14.0-14.7'	Metric	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	ND
SG 360 @ 19.0-20.0'	Metric	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	ND
SG 360 @ 24.0-25.0'	Metric	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	ND
SG 360 @ 29.0-29.4'	Metric	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	2.0
SG 361 @ 0.0-2.5'	Metric	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	ND
SG 361 @ 4.0-5.0'	Metric	ND	ND	NA	ND	ND	ND	ND	NA	ND .	NA	NA	NA	NA	Ni
SG 361 @ 9.0-10.0'	Metric	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	ND
SG 361 @ 16.0-16.4'	Metric	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	ND
SG 361 @ 19.5-19.8'	Metric	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	ND
SG 361 @ 24.0-25.0'	Metric	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	ND

<sup>1</sup> Concentrations are in μg/kg unless otherwise noted

Metric = Metric Corporation (1991)

B&R = Brown and Root Environmental (1993)

Note: All HLA analyses performed in on-site mobile laboratory

1,1,1-TCA = 1,1,1-Trichloroethane

1.1-DCA = 1.1-Dichloroethane

PCA = Tetrachloroethane

PCE = Tetrachloroethene

Freon-113 = 1,1,2-Trichloro-1,2,2-trifluoroethane
TPH = Total petroleum hydrocarbons

NA = Not analyzed ND = Not detected

<sup>&</sup>lt;sup>2</sup> HLA = Harding Lawson Associates (1991a)



#### DANIEL B. STEPHENS & ASSOCIATES, INC.

ENVIRONMENTAL SCIENTISTS AND ENGINEERS

Table 3-2. Summary of Organic Compounds Detected in Soil Samples Roswell Compressor Station No. 9 Page 5 of 6

			Concentration <sup>1</sup>												
Sample ID	Source <sup>2</sup>	1,1,1-TCA	1,1-DCA	Acetone	Chloro- benzene	Chloro- form	PCA	PCE	Freon- 113	Methylene chloride	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPH (mg/kg)
SG 361 @ 38.0-39.3'	Metric	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	ND
OS BH-1 @ 18.9-19.1'	Metric	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	12
OS BH-1 @ 34.3-34.5'	Metric	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	ND
OS BH-2 @ 9.9-10.1'	Metric	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA	NA	, NA	ND
OS BH-2 @ 22.5-22.6'	Metric	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	ND
OS BH-2 @ 31.1-31.3'	Metric	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	68
OS BH-2 @ 41.8-42.0'	Metric	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	24
OS BH-2 @ 55.2-55.4'	Metric	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	16
OS BH-2 @ 69.0-69.2'	Metric	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	16
OS BH-3 @ 21.0-21.2'	Metric	ND	ND	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND
OS BH-3 @ 44.1-44.3'	Metric	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	16
OS BH-3 @ 54.7-55.0'	Metric	ND	ND	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	16
OS BH-4 @ 27.5-27.7'	Metric	ND	ND	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND
OS BH-5 @ 14.0-14.2'	Metric	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	ND
OS BH-5 @ 19.6-19.9'	Metric	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	16
OS BH-5 @ 23.4-23.6'	Metric	ND	ND	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	12
OS BH-6 @ 13.6-13.8'	Metric	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	12
OS BH-6 @ 47.0-47.2'	Metric	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	ND

¹ Concentrations are in µg/kg unless otherwise noted

<sup>2</sup> HLA = Harding Lawson Associates (1991a)

Metric = Metric Corporation (1991)

B&R = Brown and Root Environmental (1993)

Note: All HLA analyses performed in on-site mobile laboratory

1,1,1-TCA = 1,1,1-Trichloroethane

1,1-DCA = 1,1-Dichloroethane

= Tetrachloroethane **PCA** 

PCE = Tetrachloroethene

Freon-113 = 1,1,2-Trichloro-1,2,2-trifluoroethane

= Total petroleum hydrocarbons TPH

NA = Not analyzed

= Not detected

#### **Roger Anderson**

From:

Carol Leach

Sent:

Wednesday, February 28, 1996 9:45 AM

To:

William Lemay; Jennifer Salisbury; Roger Anderson; Rand Carroll

Subject:

ED/OCD

After the Mining Commission yesterday I spent some time with Ed Kelley regarding the Transwestern issue. He will not be at today's meeting. He said he was concerned the OCD rules would not require a clean-up of the vadose zone and therefor no real clean up would be accomplished. Is that true? He went on to say if we could force the vadose zone cleanup then he did not care who supervised it.

#### STATE OF NEW MEXICO



#### ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION 2040 S. PACHECO SANTA FE, NEW MEXICO 87505 (505) 827-7131

February 28, 1996

Mr. Ed Kelly, Director Water and Waste Management Division New Mexico Environment Department 1190 St. Francis Drive Santa Fe, New Mexico 87501

Re: Duplication of Enforcement Activities

Dear Mr. Kelly:

It has come to my attention that there is a duplication of effort in enforcement of state laws and regulations relative to the oil and gas industry. With the Governor's programs for reducing the size of state government it becomes incumbent on all of us to become more efficient in the use of our staff to carry out our regulatory responsibilities. The duplication of permitting and regulatory oversight of facilities and activities in the oil and gas industries is, in my opinion, not efficient use of limited resources.

Two cases of duplication have recently come to light. One is the cleanup of contamination resulting from the illegal dumping of a hydrocarbon by unknown persons. The site is adjacent to the Weskem-Hall facility, an Oil Conservation Division (OCD) permitted facility. The other case is the continuing investigation of groundwater contamination at the Dowell Schlumberger facility in Artesia, also an OCD permitted facility.

As a constituent agency of the Water Quality Control Commission (WQCC) and pursuant to WQCC Delegation of Authority dated July 21, 1989, the OCD has been delegated the responsibility of administering and enforcing WQCC Regulations pertaining to the oil and gas industry. The OCD has permitted the above mentioned facilities and many other similar facilities throughout the oil fields in New Mexico.

In the past the staffs of both OCD and ED have worked very well together in case referral and consultation in an effort to obtain

Mr. Ed Kelly February 28,1996 Page -2-

the best possible protection of our environment with the limited resources at our disposal. Both staffs have maintained a mutual respect for each others technical abilities to enforce the rules and regulations of each agency and an appreciation for each other's job.

I believe it would be appropriate for us and our staffs to meet, discuss and try to resolve these issues and make a commitment to eliminate any duplication of efforts.

Sincerely,

William J. LeMay

Director

## **ENRON**Transwestern Pipeline Company

P. O. Box 1188 Houston, Texas 77251-1188 (713) 853-6161

February 28, 1996

VIA FAX (505) 438-3855

Ms. Jennifer A. Salisbury
Cabinet Secretary
Energy, Minerals, and Natural Resources Department
2040 S. Pacheco
Santa Fe, New Mexico 87505

Re: Roswell Site - Pending Transwestern Pipeline Company Phase II Assessment

Dear Ms. Salisbury:

At the request of the New Mexico Environment Department, Transwestern Pipeline Company ("Transwestern") respectfully requests that the New Mexico Oil Conservation Division postpone granting approval of the pending "WORK PLAN FOR PHASE II SOIL AND GROUND WATER ASSESSMENT FOR ROSWELL COMPRESSOR STATION NO. 9 SURFACE IMPOUNDMENTS" which was submitted by Transwestern on December 20, 1995 until March 11, 1996.

If you should have any questions, please call me at (713) 853-7237.

Sincerely.

Louis P. Soldano

Senior Counsel

Mr. Mark Weidler

Secretary, Environmental Department

VIA Fax (505) 827-2836

Ms. Susan McMichael, Esq.

Office of the General Counsel, NMED

Via Hand Delivery

Mr. Roger Anderson

Environmental Bureau Chief, NMOCD

Via Fax (505) 827-8177

Mr. Richard Virtue, Esq.

Via Fax (505) 983-8304

Mrs/ocd.1

cc:



GARY E. JOHNSON GOVERNOR

### State of New Mexico

### ENVIRONMENT DEPARTMENT

Harold Runnels Building 1190 St. Francis Drive, P.O. Box 26110 Santa Fe, New Mexico 87502 (505) 827-2850

MARK R. WEIDLER SECRETARY

EDGAR T. THORNTON, III
DEPUTY SECRETARY

Post-it* Fax Note	7671	Date 2	$\mathcal{T}^{-}$	196 pa	of ges	
To Jennifer.	24/6/20	From	m	ark	1000	1/en
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#### ALSO VIA TELEFAX

February 23, 1996

Jennifer Salisbury, Secretary Energy & Minerals Department 2040 S. Pacheco Santa Fe, New Mexico 87505

Re: Transwestern Pipeline Co., Roswell Compressor Station

Dear Ms. Salisbury:

We were informed that the New Mexico Oil Conservation Division (OCD) is reviewing and may take action on the work plan submitted by Transwestern Pipeline Company (TPC) for cleanup associated with groundwater contamination at the Roswell Compressor Station. This letter is to request that OCD delay any proposed action on this plan for ten (10) days or until March 4, 1996.

TPC previously submitted a RCRA closure plan for this site to NMED, which has been approved by NMED and is ready for public notice. We delayed formal public notice of the plan upon request by TPC. The regulatory issues associated with TPC's proposed remediation are complex and have state-wide and nation-wide implications. We are requesting this delay to allow time to discuss these important issues with you prior to approval by OCD. We hope to resolve this matter as expeditiously as possible and avoid future potential conflict or dispute.

Thank you for your cooperation in this matter. Please contact me if you have any questions.

Sincerely

MARK WEIDLER

Secretary

cc: Bill LeMay, OCD

Roger Anderson, OCD

Ed Kelley, NMED

Benito Garcia, NMED

TAICHERT, WIGGINS, VIRTUE & NAJIJAR A PARTNERSHIP OF PROFESSIONAL CORPORATIONS

LAWYERS

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TAICHERT & WIGGINS, P.C. 20 FIRST PLAZA SUITE 710 (87102) P.O. BOX 1308 ALBUQUERQUE, NEW MEXICO 87103-1308 (505) 764-8400 FAX: (505) 764-8585

VIRTUE & NAJJAR, P.C. 119 EAST MARCY STREET SUITE 100 (87501) P.O. BOX 4265 SANTA FE. NEW MEXICO 87502-4265 (505) 983-6101 FAX: (505) 983-8304

TOLL FREE: (505) 867-0960 (ALBUQUERQUE TO SANTA FE)

February 19, 1996

#### BY FACSIMILE TO (505) 827-2836

Ms. Susan McMichael, Esq. Assistant General Counsel State of New Mexico Environment Department Harold Runnels Bldg. P.O. Box 26110 Santa Fe, NM 87502

> Transwestern Pipeline Company ("TW") -Roswell Compressor Station

Dear Ms. McMichael:

This letter responds to your letter dated February 1, 1996 concerning the above-referenced matter. Thank you for setting forth for us some of the analysis that underlies the position of the New Mexico Environment Department ("NMED").

TW has closely reviewed your letter. The conclusions reached by NMED concerning NMED jurisdiction all flow from the assumption that "hazardous waste" within the meaning of the Federal Resource Conservation and Recovery Act ("RCRA") were disposed of at the Roswell Compressor Station. TW's investigation of the matter indicates that no "hazardous waste" under RCRA was "disposed" of at the Roswell Compressor Station; therefore, no basis for closure under RCRA exists. TW continues to believe that NMED concerns can be addressed in the context of the New Mexico Oil Conservation Division ("OCD") remediation process that has been ongoing.

TW continues to emphasize that TW originally called this matter to the attention of NMED, that TW subsequently determined that its original analysis of this matter was likely erroneous and needed to be reviewed, that TW has met with NMED on numerous occasions to discuss this matter in good faith effort to resolve it reasonably, that TW has conducted on its own initiative an

Susan McMichael February 19, 1996 Page -2-

extensive investigation of the site, that TW has pursued and intends to continue pursuing remediation activities under the authority of the OCD, and that OCD has provided NMED with an opportunity for input into that process. Thus, the issue is not whether a remediation will be conducted at the Roswell Compressor Station, but rather, what is the appropriate approach to remediation under all the circumstances including legal, technical and policy matters. TW continues to believe that the approach it is proposing is not only legally correct, but also makes sense as a technical and policy matter.

We believe that it would be helpful to summarize the basic legal authority supporting the position of TW. We will then respond to the major points in your letter.

Two distinct legal issues are presented in your letter. First, NMED asserts that the Roswell Compressor Station is a treatment, storage or disposal ("TSD") facility within the meaning of the New Mexico Hazardous Waste Act ("HWA") and RCRA. Second, your letter asserts that NMED has authority to require corrective action, even if the Roswell Compressor Station is not a TSD facility.

#### I. General Legal Analysis

#### A. TSD Facility Permit

Section 74-4-4(A), NMSA 1978 authorizes the New Mexico Environmental Improvement Board ("EIB") to adopt regulations for the "management of hazardous waste". Section 74-4-4(A)(6) is the governing provision with respect to when a RCRA permit is required. That section states that "an existing facility...for the treatment, storage or disposal of hazardous waste identified or listed under this subsection" must have a permit. Subsection (1) of Section 74-4-4(A) states:

"the board shall not identify or elect any solid waste or any combination of solid waste as a hazardous waste that has not been listed and designated as a hazardous waste by the Federal Environmental Protection Agency pursuant to the federal Resource Conservation and Recovery Act of 1976 as amended".

TW's analysis is that in order for a facility to be required to obtain a permit as a TSD facility, the facility must be an "existing" facility "for the ... disposal" of "hazardous waste identified or listed" under RCRA. TW's investigation has determined that none of the wastes disposed of at the Roswell

Susan McMichael February 19, 1996 Page -3-

Compressor Station were "hazardous waste listed or identified" under RCRA at the time of disposal. Therefore, the Roswell Compressor Station is not "an existing facility ... for the treatment, storage or disposal of hazardous waste identified or listed" under RCRA.

#### B. Corrective Action

Section 74-4-4(A)(5)(h) is the provision of the HWA governing corrective action. That section provides that the EIB may adopt performance standards applicable to "owners and operators of facilities for the treatment, storage or disposal of hazardous waste identified or listed under this section" that require the taking of "corrective action for all releases of hazardous waste or constituents from any solid waste management unit at a treatment, storage or disposal facility regardless of the time at which the waste was placed in the unit". Your letter relies heavily on the quoted language to support the assertion that NMED has authority to require corrective action under RCRA and HWA.

Again, disposal of "hazardous waste" must have occurred at a "facility for the treatment, storage or disposal" of hazardous waste for this section to apply. Because the releases which have occurred at the facility were not of "hazardous waste listed or identified" under HWA or RCRA at the time of the disposal, no "hazardous waste" was "disposed of" at the facility. Because the facility was never a TSD facility under the meaning of the HWA, the corrective action requirements of §74-4-4(A)(5)(h) do not apply.

You specifically refer in your letter to the language indicating that hazardous "constituents" are subject to corrective action. We do not agree that this language requires corrective action at a facility where a substance that is currently a "hazardous constituent" was disposed of in the past, but that substance was not a "hazardous waste" at the time of disposal. The lead sentence in subsection 74-4-4(A)(5) specifically makes the corrective action performance standards applicable to the disposal of "hazardous wastes identified or listed" under HWA. If a substance that is a "hazardous waste" at the time of disposal is disposed of, then the "hazardous constituents" of the "hazardous waste" are subject to corrective action. However, if the constituents that were originally disposed of did not constitute "hazardous waste" at the time of disposal, we do not believe subsection (5)(h) applies.

Susan McMichael February 19, 1996 Page -4-

The NMED position with respect to the RCRA permitting requirement seems to be based upon the premise that the definition term "disposal" includes "leaking" of hazardous waste. In order for this definition to apply, the leak must have occurred from an "existing facility" and the leak must be of "hazardous waste". The only facility from which a "leak" is alleged to have occurred is the surface impoundments at the site. These surface impoundments were taken out of service before adoption of the solvent mixture rule. Because the surface impoundments were taken out of service prior to the adoption of the solvent mixture rule, we do not believe the surface impoundments are "existing facilities" within the meaning of RCRA and its regulations. Moreover, we do not believe that NMED can establish that "leaking" from those impoundments has occurred since the effective date of the solvent mixture rule, because the impoundments were closed long before that date. Finally, we believe the term "leak" does not apply to movement of substances from a surface impoundment.

TW believes that its construction is consistent with a reading of all the provisions of the RCRA permitting requirements, not just the definition of "disposal", to determine the real intent of RCRA. We believe that NMED's interpretation would lead to unreasonable results: the movement of any substance that was previously deposited or released from any type of facility, if the substance was subsequently determined to be "hazardous waste", would automatically make the facility at which the substance was previously released a treatment storage or disposal facility under RCRA. We do not believe this interpretation is supported by the provisions of RCRA when read as a whole.

The solvent mixture rule was adopted by EPA on December 31, 1985 and became effective April 30, 1986. The surface impoundments at issue here were taken out of service prior to adoption of the solvent mixture rule. In short, TW's position is that the solvent mixture rule does not apply retroactively to the Roswell Compressor Station in such a manner that the site is a TSD facility or that corrective action is required, because no hazardous waste (or hazardous constituents) have been disposed of at the facility after the date of adoption of the solvent mixture rule.

#### II. Response to NMKD's Factual Analysis

A. Alleged Prior Use of 100% 1,1,1-trichloroethane ("TCA")

Your letter refers to a statement made on page 8 of the closure plan prepared by Daniel B. Stevens & Associates, Inc., dated

Susan McMichael February 19, 1996 Page -5-

January 16, 1995. The statement is that "this solvent product contained 100% 1,1,1-TCA". TW does not believe that our October 11, 1995 letter "flatly contradicts data supplied" in the closure plan. The statement in the closure plan simply indicates that a solvent product was used at the facility. That statement was based upon an erroneous assumptions. No statement is made that the solvent product was disposed of or used in 100% solution. In fact, TW's subsequent investigation indicated that the solvent that was used did not contain 100% TCA. The subsequent investigation by TW was conducted for the purpose of determining whether the solvent used at the facility was in fact used in 100% solution and or disposed of in 100% solution. The statement made in the closure plan is not inconsistent with the position taken in the October 11, 1995 letter. In fact, the investigation serves to clarify the statement made in the closure plan.

#### B. Data Obtained by NMED at the Facility

Your letter makes reference to objective data in the possession of the NMED that TW disposed of hazardous waste at the site after 1980, but failed to identify the nature of such data other than statements and reports prepared for TW. Such data is public record under §74-4-4.3(D), NMSA 1978. If the NMED will identify what data the NMED believes supports the NMED conclusions, TW will carefully review such data and reevaluate its position.

## C. Presence of Low Concentrations of Halogenated Organic Compounds

Confusion exists over the point TW has been trying to make with respect to low concentrations of halogenated organic compounds at the site. TW's position is simply that the mere presence of such compounds does not necessarily give rise to RCRA jurisdiction. The origin of the compounds, the nature of their use and migration into the environment, and the regulations in effect at the time must all be carefully analyzed to determine if RCRA jurisdiction is applicable. The NMED has not presented a specific analysis of these factors to TW. NMED's focus on the presence of hazardous constituents is merely the first step in the required analysis of the applicability of RCRA. When the nature of the use of the constituents and the law and regulations in effect at the time of release are factored into the analysis, RCRA does not apply.

Susan McMichael February 19, 1996 Page -6-

#### D. Regulatory Status of Natural Gas Compressor Stations

TW's point is that its position is consistent with the regulatory programs in place with respect to facilities such as the Roswell Compressor Station. The vast majority of petroleum hydrocarbon contamination in the United States is handled as non-hazardous and non-RCRA. Congress provided a specific statutory exemption from RCRA for exploration and production wastes much of which tends to be petroleum hydrocarbons. You attached to your letter documents from EPA asserting EPA's position that the RCRA petroleum exemption does not apply to TW-related wastes. TW's point is that the substances at issue here were not hazardous wastes at the time of disposal. Therefore, the scope of the RCRA petroleum exemption need not be addressed.

The State of New Mexico's Underground Storage Tank Program manages hydrocarbon contamination outside of RCRA's hazardous waste regulations. These are the exact same compounds that comprise nearly 100% of the substances that the NMED is seeking to manage as hazardous wastes. There is no difference in the nature of the compounds themselves; the difference exists only in the regulatory framework which the NMED is seeking to impose on the compounds.

Finally, TW has relied on the proposed Hazardous Waste Identification Rule to point out the EPA has recognized that many compounds, such as the halogenated compounds present which are a fraction of the contamination present at this site, are not appropriately regulated under current RCRA regulations. From a practical point of view the OCD is the appropriate agency to have primary authority over remediation activities at the site.

#### III. Alternative Approaches

#### A. OCD Remediation with NMED Input

TW's proposes to enter into discussions with NMED with the goal of reaching an agreement under which the OCD remediation would be the primary remediation at the site with appropriate oversight by NMED to address NMED's concerns with respect to hazardous constituents. OCD has provided NMED an opportunity to comment on the assessment plan. The OCD regulatory process is already underway, and NMED has been invited to participate in that process. Thus, a structure already exists under which remediation of the site can occur pursuant to the existing OCD process, with appropriate input and oversight by NMED.

Susan McMichael February 19, 1996 Page -7-

#### B. Further Investigation, and Hearing, If Necessary

If NMED is not prepared to pursue TW's proposal at this time, then TW proposes that TW and NMED agree to an orderly procedure to address the issues. According to your February 1, 1996 letter NMED possesses information concerning the site that it has not made available to TW, but which is, as a matter of law, public record. NMED would provide that data to TW so that it can reassess its position in view of the data. After such review, NMED and TW would determine whether an additional investigation would be useful.

After completion of the additional review and investigation, TW would request that the Secretary of NMED review this matter, and allow TW to make its representatives available to answer any questions the Secretary may have with respect to the administrative record as it exists.

If issues still remain after the additional investigation and review the thereof by the Secretary, TW believes that the Secretary has the authority to appoint a hearing officer to set a hearing on any remaining issues pursuant to Section 74-4-4.2(H) and make recommendations to the Secretary. Section 74-4-4.2(H) provides that no ruling shall be made on "permit issuance" without an opportunity for public hearing. Because of the issues that have been raised with respect to applicability of RCRA, we believe the Secretary could order an initial hearing to address the RCRA issues presented by TW on which TW, NMED and the public would have an opportunity to present evidence on any outstanding issues related to the applicability of RCRA. This process would provide for an orderly and comprehensive development of the facts and issues.

#### C. Petition to EIB for Clarifying Regulation

A final option would be for TW to file a petition with the EIB under Section 20 NMAC1.1 Part III of the EIB regulations. Such a petition would request the EIB to adopt a new regulation which would specify the regulatory treatment of facilities such as the Roswell Compressor Station in which jurisdiction resides in the OCD, but hazardous constituents are present. Such a petition would request a clarifying rule to resolve these matters. TW intends to pursue this alternative, if this matter is not resolved through the other options presented.

TW desires to continue to work with NMED to come up with creative, workable solutions to remediation at the Roswell Compressor Station in a manner which will address NMED concerns,

Susan McMichael February 19, 1996 Page -8-

and at the same time not require TW to embark upon a regulatory process that simply does not apply either legally or practically to the Roswell Compressor Station. We trust that continuing discussions with NMED concerning this matter will result in a creative and satisfactory solution.

Very truly yours,

TAICHERT, WIGGINS, VIRTUE & NAJJAR

Richard L. C. Virtue Santa Fe Office

cc: Hon. Mark Weidler

Ed Kelly

NMED Cabinet Secretary

NMED Hazardous and Radioactive Materials

Bureau

Lou Soldano, Esq. Frank Smith, Esq.

ENRON Operations Corp. Legal ENRON Corp. Legal

Dave Nutt, Esq.

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Bill Kendrick

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Affairs

Roger Anderson

New Mexico Oil Conservation Division

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### State of New Mexico

#### ENVIRONMENT DEPARTMENT

Hazardous & Radioactive Materials Bureau 2044 Galisteo P.O. Box 26110 Santa Fe. New Mexico 87502 (505) 827-1557 Fax (505) 827-1544



MARK E. WEIDLER SECRETARY

EDGAR T. THORNTON, III DEPUTY SECRETARY

February 14, 1996

Mr. Roger C. Anderson Environmental Bureau Chief New Mexico Oil Conservation Division Energy, Minerals, and Natural Resources Department 2040 S. Pacheco Santa Fe, New Mexico 87505

Dear Mr. Anderson:

Contaminant Investigation

Transwestern Pipeline Company - Roswell Compressor Station

The Hazardous and Radioactive Materials Bureau (HRMB) is in receipt of your January 26, 1996 letter. In this letter, the Oil Conservation Division (OCD) requested that HRMB review and provide comments to the OCD on Transwestern Pipeline Company's (TPC) December 20, 1995 document "Work Plan for Phase II Soil and Ground Water Assessment for Roswell Compressor Station No. 9 Surface Impoundments". The OCD requested comments in writing by February 16, 1996.

The New Mexico Environment Department (NMED) maintains that TPC's surface impoundments are subject to closure pursuant to the New Mexico Hazardous Waste Act (HWA) and the Resource Conservation and Recovery Act (RCRA). Because TPC's document addresses investigative activities outside of the RCRA closure process, HRMB does not consider it appropriate to review and comment upon the document at this time.

If you have any questions, please contact me at (505) 827-1557 or Ronald Kern of my staff at (505) 827-1560.

Sincerely,

Benito J. Garcia, Chief

Hazardous and Radioactive Materials Bureau

Ed Kelley, Division Director, NMED

Ron Kern, Manager, RCRA Technical Compliance Program Barbara Hoditschek, Manager, RCRA Permits Program Susan McMichael, Office of General Counsel, NMED Larry Campbell, Director, TPC Roswell Compressor Station

Richard Virtue, Esq.



## State of New Mexico ENVIRONMENT DEPARTMENT

Harold Runnels Building 1190 St. Francis Drive, P.O. Box 26110 Santa Fe, New Mexico 87502

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GARY E. JOHNSON GOVERNOR OFFICE OF GENERAL COUNSEL
PHONE 505-827-2990
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MARK E. WEIDLER SECRETARY

EDGAR T. THORNTON, III
DEPUTY SECRETARY

February 1, 1996

#### VIA CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Richard Virtue, Esq.
Taichert, Wiggins, Virtue & Najjar
119 East Marcy Street, Suite 100
P.O. Box 4265
Santa Fe, New Mexico 87502-4265

RE: Notice to Comply with RCRA Closure Plan Requirements For Transwestern Pipeline Company

Dear Mr. Virtue:

This letter responds to your letter dated January 22, 1995. As we indicated by letter dated December 21, 1995, the New Mexico Environment Department (NMED) reviewed your legal analysis of October 11, 1995 and determined that closure of Transwestern Pipeline Company's (TPC) surface impoundments in question is required pursuant to the New Mexico Hazardous Waste Act (HWA) and the Resource Conservation and Recovery Act (RCRA). The purpose of this letter is to specifically address some major areas of concern you have raised regarding specific technical and legal analysis for the applicability of RCRA jurisdiction. Further, for the reasons discussed below, we request that TPC reconsider the decision to withdraw its RCRA Part A permit application and closure plan.

In your letters dated October 11, 1995 and January 22, 1996, TPC asserts that the proper regulatory path for cleanup and oversight is through the jurisdiction of the Oil Conservation Division (OCD) because: (1) no "hazardous waste" was disposed at the site or alternatively, the presence of halogenated organic compounds at low concentrations does not give rise to RCRA jurisdiction; (2) information provided to NMED was inaccurate and RCRA closure requirements are "inapplicable" to Natural Gas Compressor Stations and (3) OCD has authority to remediate sufficiently to protect human health and the environment. As discussed below, NMED does not agree with your legal analysis regarding the applicability of HWA or RCRA jurisdiction. The following addresses some major areas of concern regarding this issue:

Richard Virtue, Esq. February 1, 1996
Page 2

RCRA and HWA jurisdiction is not triggered by review of the levels or presence of hazardous constituents in groundwater. issue is irrelevant to whether RCRA jurisdiction exists; the presence of such constituents serves to only bolster the conclusion that RCRA corrective action or a closure plan is required. RCRA and the HWA "requires a permit for the 'treatment,' 'storage,' or 'disposal' of 'hazardous waste' as identified or listed in 40 CFR Part 261." 20 NMAC 4.1.900 (40 CFR \$270.1(c)). A permit is required for any such waste disposed of after November 19, 1980. The term "disposal" includes the "discharge, deposit ... leaking or placing of any solid or hazardous waste ... into any waters, including groundwaters. 40 CFR \$260.10. "Owners and operators of hazardous waste management units must have permits during the active life (including the closure period) of the unit." 40 CFR §270.1. Hazardous waste management units include surface impoundments in which "hazardous waste" is placed. 40 CFR \$260.10.

In addition to permitting authority under RCRA, corrective action may be required <u>regardless</u> of the date waste is disposed of for a facility which has a RCRA permit, was required to obtain such permit (but failed to do so) <u>or</u> pursuant to Section 7003 of RCRA where the release of hazardous constituents may present an imminent and substantial endangerment. See e.g. 40 CFR \$264.90. Corrective action authority is broader in scope than permitting activities under RCRA and is required as necessary to "protect human health and the environment for all releases for hazardous wastes or constituents from any solid waste management unit at a facility, <u>regardless of the time</u> at which the waste was placed in such unit. See 40 CFR \$264.90.

Based upon the facts and data presented to us by TPC, there are several reasons RCRA jurisdiction exists. There is evidence that TPC "disposed" of "hazardous waste" as identified or listed in 40 CFR Part 261 at the site after 1980. This conclusion is based upon objective data provided to NMED staff from TPC as well as information collected during the Preliminary Review (PR) and the Visual Site Inspection (VSI) conducted as part of the RCRA Facility Assessment (RFA). TPC alleges that "there is no information that [commercially pure grade of spent non-halogenated] solvents, or associated wastes, were used stored or disposed of at the Roswell Station." Letter to NMED from TPC dated October 11, 1995. This statement, however, flatly contradicts data supplied by TPC from Daniel B. Stephens & Associates, Inc. as part of the closure plan

<sup>1.</sup> New Mexico received authorization from EPA for corrective action on January 2, 1996. 61 FR 2450 (January 26, 1996)

Richard Virtue, Esq. February 1, 1996 Page 3

that states that "most common solvent used was known by the trade name 'TK-1.' This solvent product contained 100% 1.1.1-TCA. The primary degradation product of 1.1.1-TCA is 1.1-DCA." We are unaware of any legal authority that supports the conclusion that halogenated solvents such as TK-1 do not fall under RCRA as a "hazardous waste" even prior to the adoption of the 1985 solvent rule. See e.g. 50 FR 18378 (April 30, 1985). Further, the date waste was disposed of is irrelevant for corrective action authority. Corrective action authority is not dependent upon the time at which hazardous waste or constituents were disposed of. 40 CFR §264.90.

Second, TPC consistently confuses the issue of 2. jurisdiction with alleged "low concentrations" of halogenated organic compounds at the site. TPC's statement that "the presence of halogenated organic compounds at low concentrations does not rise to RCRA jurisdiction" and represent a "tiny fraction" of the total concentration of all regulated compounds" is legally and technically unsubstantiated. previously stated. As applicability of RCRA jurisdiction is not dependent upon whether "low concentrations" of such wastes exist. Hazardous substances such as "toluene" fall within RCRA because they contain high levels of toxicity even at low concentrations. See e.g. US v. Northeastern Pharmaceutical & Chemical co., 25 ERC 1385 (8th Cir. Even the proposed Hazardous Waste Identification Rule (HWIR) would not support TPC under these circumstances. 2 also appears to be a misunderstanding about the issue of total petroleum hydrocarbons (TPH) and RCRA jurisdiction. RCRA regulates "BTEX" (benzene, toluene, ethylbenzene, and xylenes) constituents as well as other specific constituents that TPC repeatedly refers to as representing "100%" of the regulated compounds at this site. Under the mixture rule, hazardous wastes that are mixed with solid wastes fall under RCRA jurisdiction. (citations omitted). As a technical matter, data supplied to NMED staff from previous sampling investigations, although lacking analysis for complete Appendix IX parameters and inadequate QA/QC in many cases, shows that 1,1,1-TCA and 1,1 DCA to be 3 and 22.4 times the WOCC groundwater standards respectively. Further, several individual constituents detected in the groundwater such as benzene and toluene are 1300 and 20 times the drinking water standard under

<sup>&</sup>lt;sup>2</sup>. The proposed HWIR is extremely controversial and has been rejected in numerous states, including the National Association of Attorneys General. Even if the rule was promulgated, it is not binding in New Mexico.

Richard Virtue, Esq. Pebruary 1, 1996 Page 4

which RCRA regulates. These are not "low concentrations" as asserted by TPC.

- 3. TPC's legal analysis that RCRA closure requirements are inapplicable to Natural Gas Compressor Stations is unfounded. RCRA jurisdiction is not dependent upon whether the Roswell Station is a "RCRA waste generator." Whether or not the Roswell Station is a RCRA generator or "conditionally exempt small quantity generator" is irrelevant to the issue here. Neither a RCRA waste generator nor a "conditionally exempt small quantity generator" can dispose of hazardous waste on-site without a permit. 40 CFR Part 270 and 40 CFR \$262.11. Generators of hazardous waste are required to ship such wastes off-site unless they obtain a disposal permit. Id. NMED is unclear as to meaning of your statements regarding the inapplicability of waste characterization requirements. The fact a facility disposed of hazardous waste without a permit and backfilled the surface impoundments in question would not exempt the facility from subtitle C requirements.
- In your letter dated January 22, 1996, you indicate that there is "no citation to different standards or explanation as to why clean up required by NMED under the HWA differs from groundwater cleanup addressed by OCD. " As a legal and technical matter, RCRA closure requirements under the HWA differ significantly from cleanup required by OCD under the WQCC standards. The primary difference between the two is statutory. A person that disposes of "hazardous waste" is required by law to abide by closure or corrective action requirements set forth under the HWA and RCRA. NMSA 1978, \$74-4-10. 20 NMAC 4.1.900. NMED is the agency in New Mexico responsible for assuring that the requirements of the HWA are fulfilled. NMED's authorization from EPA for its Hazardous Waste program mandates this and there is no legal authority to vary from these requirements. As a technical matter, the RCRA closure or corrective action process differs from groundwater cleanups under the WQCC. The major technical differences are as follows: (1) RCRA applies to all environmental media while WQCC applies

The hazardous wastes at issue here are not subject to RCRA's Bevill exclusion. "The [Bevill] exclusion does not, however, apply to solid wastes, such as spent solvents ... that are not uniquely associated with these operations. ... [such] wastes are hazardous and must be managed in conformance with Subtitle C of these regulations." 45 FR 76619. Spent solvents are specifically described as an example of a waste "not uniquely associated with exploration, development or production activities." See EPA interpretation of Bevill exclusion, attached hereto.

Richard Virtue, Esq. February 1, 1996 Page 5

only to groundwater and water contaminants in the vadose zone; (2) RCRA regulates a larger number of constituents than WQCC; and (3) the standards utilized by RCRA fully encompass WQCC standards as well as federally promulgated standards and risk-based standards (whichever is most protective of human health and the environment). The decision processes are outlined in 20 NMAC 6.2 and 20 NMAC 4.1.

For these reasons, we request that TPC reconsider the decision to withdraw its RCRA permit application and closure plan. NMED staff has spent considerable time reviewing the plan and has discussed these regulatory issues with EPA. NMED determined to approve TPC's plan, with modifications, and was scheduled to provide public notice of the plan this week pursuant to 40 CFR \$265.112. Therefore, please let us know as soon as possible, and no later than February 19, 1996 whether you intend to comply with the applicable regulatory requirements for closure. Hopefully, this matter may be resolved expeditiously and without the need for further delay. If you have any questions, do not hesitate to call me at (505) 827-0127.

Sincerely,

SUSAN MCMICHAEL

Assistant General Counsel

Enclosures

Ed Kelley
Joe Hulscher
Lou Soldano
Rodger Anderson



#### STATE OF NEW MEXICO

#### ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

#### OIL CONSERVATION DIVISION

2040 S. PACHECO SANTA FE, NEW MEXICO 87505 (505) 827-7131

January 26, 1996

Mr. Benito Garcia
Hazardous and Radioactive Materials Bureau
New Mexico Environment Department
2044 Galisteo
Santa Fe, New Mexico 87505

RE: GROUND WATER INVESTIGATION

TRANSWESTERN PIPELINE CO. ROSWELL COMPRESSOR STATION

Dear Mr. Garcia:

The New Mexico Oil Conservation Division (OCD) is in the process of reviewing Transwestern Pipeline Company's (TPC) December 20, 1995 "WORK PLAN FOR PHASE II SOIL AND GROUND WATER ASSESSMENT FOR ROSWELL COMPRESSOR STATION NO. 9 SURFACE IMPOUNDMENTS". This document contains TPC's proposed work plan for additional soil and ground water contamination investigations at the Roswell Compressor Station.

The OCD is the constituent agency delegated by the New Mexico Water Quality Control Commission (WQCC) for enforcement of WQCC regulations and standards at these types of facilities. Therefore, the OCD is required to respond to this document to ensure that soil and ground water investigation and remedial actions conform to WQCC regulations. At a December 8, 1995 meeting between OCD and the New Mexico Environment Department Hazardous and Radioactive Waste Bureau (HRWB), the HRWB expressed concern over the results of prior TPC facility investigations documented in TPC's November 8, 1995 "PHASE I SOIL AND GROUND WATER ASSESSMENT FOR ROSWELL COMPRESSOR STATION NO. 9 SURFACE IMPOUNDMENTS". The OCD requests that the HRWB provide the OCD with any comments and concerns that the HRWB has regarding either the Phase I report or the proposed Phase II work plan. Since the OCD must respond to TPC's work plan in a timely fashion, the OCD requests that the HRWB provide any comments to the OCD in writing by February 16, 1996.

If you have any questions, please contact me at (505) 827-7152 or Bill Olson of my staff at (505) 827-7154.

Sincerely,

Roger C. Anderson

Environmental Bureau Chief

xc: Tim Gum, OCD Artesia District Supervisor

## Transwestern Pipeline Company

J. A. "Joe" Hulscher Vice President Operations

Summit Office Bldg., Ste. 250 4001 Indian School Rd., NE Albuquerque, NM 87110 Direct (505) 260-4001 Houston (713) 853-7794

January 19, 1996

#### VIA FEDERAL EXPRESS

Mr. Mark E. Weidler
Cabinet Secretary
New Mexico Environment Department
Harold Runnels Bldg.
P. O. Box 26110
Santa Fe, NM 87502

## RECEIVED

JAN 2 2 1996

Environmental Bureau
Oil Conservation Division

Transwestern Pipeline Company-Roswell Compressor Station - Notice of Withdrawal of RCA Part A Application and Closure Plans

#### Dear Mr. Weidler:

In January, 1993, Transwestern Pipeline Company ("Transwestern") filed a RCRA Part A permit application with the State of New Mexico Environment Department ("NMED") Hazardous and Radioactive Materials Bureau ("HRMB") at the request of the HRMB. After extensive investigation and analysis, Transwestern has recently concluded that much of the information included on the RCRA Part A Permit application form was incorrect. Furthermore, Transwestern has determined that the underlying factual and legal assumptions upon which the application was submitted were also incorrect.

By this letter, Transwestern is formally notifying the NMED that the RCRA Part A permit application submitted for the Roswell Compressor Station is withdrawn. In addition, Transwestern is formally notifying the NMED that all closure plans submitted to the NMED HRMB for this facility are withdrawn, because the Roswell Compressor Station is not subject to RCRA closure requirements and will be remediated under the regulatory authority of the New Mexico Oil Conservation Division ("OCD").

Attached to this letter is a brief description of why the RCRA Part A permit application was originally submitted and why the application form contained incorrect information. Also included is a detailed description of the inaccuracies included in the application form and the reasons for the withdrawal.

The following summary of the history of this matter will be of additional assistance in understanding the basis for Transwestern's decision to withdraw the RCRA Part A application and closure plans.

During the latter half of 1991, Transwestern implemented a purely voluntary, self-directed subsurface investigation in the vicinity of a former surface impoundment at the Roswell Compressor Station. In the course of this investigation, Transwestern discovered the presence of certain organic compounds contained in soil and ground water which potentially could have originated from an F-listed RCRA regulated waste. In February 1992, Transwestern brought the results of the initial investigation to the attention of the NMED HRMB and the OCD in an effort to insure that New Mexico regulatory authorities were apprised of the situation and to initiate the proper regulatory process for the continued assessment and remediation of affected soil and ground water. A number of meetings were held between the concerned parties. Subsequently, the NMED HRMB requested that Transwestern file a RCRA Part A permit application as the initial step toward a RCRA closure. That application was submitted in January, 1993. Since then, Transwestern has worked diligently to proceed with the assessment and remediation of the site within the RCRA framework at considerable cost. Unfortunately, until recently, Transwestern's efforts have been entirely focused on closure rather that on whether or not closure under both OCD and RCRA framework was appropriate.

Early last year Transwestern engaged the services of local counsel to analyze the regulatory path that Transwestern had been following. An initial review indicated that Transwestern had made several erroneous assumptions concerning both the operational history at the site and the applicability of RCRA regulations that have been adopted by the New Mexico Environmental Improvement Board pursuant to the New Mexico Hazardous Waste Act. After consulting with the NMED HRMB and apprising them of the situation, Transwestern conducted a complete review of the matter. The review confirmed the inaccuracy of many of Transwestern's underlying assumptions and verified the lack of any evidence that "hazardous waste" within the meaning of the New Mexico Hazardous Waste Act Regulations was disposed of at the Roswell Compressor Station.

At the completion of the review, Transwestern submitted a detailed letter and considerable supporting documentation to the NMED Office of General Counsel presenting Transwestern's position on the matter. All available evidence indicates that for legal, technical, and practical reasons, the proper regulatory avenue for the closure of this site is through the OCD rather than the NMED HRMB.

On December 21, 1995 the NMED Office of General Counsel responded to our October 11, 1995 letter. The response did not present any additional facts or legal analysis that would change the results of Transwestern's extensive factual investigation and legal review. Further, the response highlighted a persistent trend of disproportionate concern over the potential threat posed by conditions at the site. After reviewing the response, it became clear that the only appropriate action was to withdraw the RCRA Part A application and closure plan.

Transwestern requests that you and your staff meet with representatives of Transwestern at your earliest convenience for the purpose of answering any questions you or your staff may have. Transwestern has previously sugested that, at the OCD's discretion, the NMED could be allowed limited oversight of the closure in order that any NMED concerns can be satisfied. Although these suggestions have been rejected by the NMED, Transwestern is still willing to consider approaching the OCD in this manner.

If you have any questions or comments, please contact Lou Soldano, ENRON Operations Corp. Legal, at (713) 853-7237.

Sincerely,

Joe Hulscher

Vice President, Operations

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Transwestern Pipeline Company

xc:

Lou Soldano, Esq.

ENRON Operations Corp. Legal

Frank Smith, Esq. Dave Nutt, Esq.

ENRON Corp. Legal ENRON Corp. Legal

Bill Kendrick

ENRON Operations Corp.

**Environmental Affairs** 

Roger Anderson

New Mexico Oil Conservation Division

Ed Kelley

NMED Hazardous and Radioactive

Materials Bureau

Susan McMichaels, Esq.

NMED (Via Hand Delivery)

Richard L. C. Virtue, Esq.

LtrS/Weidler1.doc

#### Attachment - Withdrawal of Part A Permit Application Transwestern Pipeline Company, Roswell Compressor Station

#### Why the Part A Permit Application was Submitted

During the latter half of 1991, Transwestern implemented a purely voluntary, self-directed subsurface investigation in the vicinity of a former surface impoundment at the Roswell Station. In the course of this investigation, Transwestern discovered the presence of certain organic compounds contained in soil and ground water which potentially could have originated from an F-listed RCRA regulated waste. In February 1992, Transwestern brought the situation at the Roswell Station to the attention of the NMED HRMB and the New Mexico Oil Conservation Division (OCD), in an effort to insure that the New Mexico authorities were apprised of the situation and initiate/establish the proper regulatory process for the continued assessment and remediation of affected soil and ground water. A number of meetings were held between the concerned parties. Subsequently, the NMED HRMB requested that Transwestern file a RCRA Part A permit application as the initial step toward a RCRA closure. This application was submitted in January, 1993.

#### Why the Part A Permit Application Contained Incorrect Information

The RCRA Part A application form was originally designed as a mechanism for facilities which treat, store, and/or dispose (TSD) of hazardous waste to enter into the RCRA facility permitting process via interim status. The Roswell Station functions as a natural gas compressor station and has not, nor is ever intended to, operate as anything resembling a TSD facility. Not surprisingly, the information required to complete a RCRA Part A application form was either not applicable or totally inappropriate for the actual facility function and operations. However, in a cooperative effort to fulfill the NMED's request for a completed Part A application, Transwestern completed the application form with information which was intended to present a worst case description of the potential condition of affected soil and ground water at the site.

#### <u>Information Included in the Part A Permit Application Which is Incorrect</u>

Based upon a recent detailed review of the facility's operational history, nearly all of the information presented on the original application form was erroneous with the exception of the facility name, address, location, facility contact, and EPA ID number. The following items identify and describe the incorrect information submitted in the Part A permit application.

- 1. The "Treatment Process Design Capacity" indicated on the Part A application is 3,061,487 gallons. This figure was not based on the design capacity of the surface impoundment but rather on an inaccurate estimate of the volume of shallow ground water impacted by waste constituents. The estimated capacity of the surface impoundment now referred to as "Pit 1" (the only surface impoundment at the facility operated after November 19, 1980) is only 202,000 gallons. This revised estimate is based on dimensions obtained from historic air photos of the facility.
- 2. Five waste codes were listed in the application. None of the five waste codes should have been listed for the following reasons:
- a. F001 (halogenated solvents) This waste code was originally included in the Part A application form because compounds included in the F001 list (most notably 1,1,1-trichloroethane) were present in soil and ground water samples collected from the former impoundment area. However, merely the presence of these compounds in environmental media (soil and ground water) do not justify the conclusion that these compounds originated from an F001 listed waste. Prior to November 19, 1980, there was no such listing of wastes or the associated regulatory requirements for management of such wastes. Furthermore, prior to the solvent mixture rule which was finalized December 31, 1985, the F001 listing applied only to commercially pure grades of spent halogenated solvents used

in degreasing (e.g. 100% 1,1,1-trichloroethane). The 1985 solvent mixture rule modified this definition to include spent solvent mixtures containing 10% or greater by volume of one or more of those solvents listed in F001, F002, F004, and F005. The last remaining surface impoundment was taken out of service prior to the 1985 rule change. Furthermore, there is no information available to TW to indicate that a commercially pure grade spent halogenated solvent was either used at this facility during the timeframe the impoundment was in use or disposed of in the impoundment. Therefore, the F001 waste code should not have been included on the Part A application form.

- b. F005 (non-halogenated solvents) This waste code was originally included in the Part A application form because compounds included in the F005 list (most notably toluene and benzene) were present in soil and ground water samples collected from the former impoundment area. As previously described, merely the presence of these compounds in environmental media (soil and ground water) do not justify the conclusion that these compounds originated from an F005 listed waste. In regard to toluene and benzene, these compounds are present at the site almost entirely as the result of a discharge of natural gas liquids, not as the result of a discharge of waste solvents. In regard to any other F005 listed compounds that may be present in environmental media at the site, prior to the solvent mixture rule which was finalized December 31, 1985, the F005 listing applied only to commercially pure grades of spent non-halogenated solvents (e.g. 100% methyl ethyl ketone). Again, TW has no information that these solvents, or their associated wastes, were used, stored, and/or disposed of at the Roswell Station. Therefore, the F005 waste code should not have been included on the Part A application.
- D004 (arsenic) A small concentration of arsenic (as trimethylarsine) is produced with natural gas from the Abo formation located just north of the Roswell Station. As a result, a small concentration of arsenic is occasionally present in pipeline liquid samples collected at the Roswell Station. For this reason, the D004 waste code was included on the Part A application. Although production from this formation began in 1979, arsenic was not identified as a natural contaminant of the gas until 1987. The pipeline liquids tank was installed at the Roswell Station in 1983, therefore, the duration in which pipeline liquids potentially containing arsenic were placed in the former surface impoundment was very limited (approximately four years). The duration in which pipeline liquids may have been subject to evaluation by the EP Toxicity procedure for arsenic was even shorter, less than three years. During this timeframe, the potential for arsenic to accumulate in pipeline liquids was not known. Furthermore, pipeline liquids were generally considered RCRA exempt. To Transwestern's current knowledge, the EP Toxicity procedure was never used to assess the toxicity characteristic of the pipeline liquids placed in the former impoundment for arsenic. Regardless, the concentrations currently measured are well below those levels which one might expect the waste stream to fail the former EP Toxicity procedure which was in use at the time in question. Based on this information, TW has no knowledge that wastes placed in the former surface impoundment at the Roswell Station were characteristically hazardous due to arsenic, therefore, the D004 waste code should not have been included on the Part A application.
- d. D005 (barium) The D005 waste code was listed primarily because barium is present in small concentrations in used engine oil collected at the Station. The concentration present is well below those levels where one might expect the waste stream to fail the former EP Toxicity procedure. Furthermore, TW has no knowledge that wastes placed in the former surface impoundment at the Roswell Station would have failed the EP Toxicity procedure for barium. Therefore, the D005 waste code should not have been included on the Part A application.
- e. D018 (benzene) The D018 waste code was listed because benzene is a natural constituent of the natural gas liquids which were placed in the former impoundment. However, prior to the TC Rule effective September 25, 1990, benzene was not listed as a "Characteristic of EP Toxicity" contaminant. Therefore, during the time frame that the surface impoundment was in use, there was no such thing as a D018 waste, and thus, this waste code should not have been listed on the Part A application.