Public Service Company
of New Mexico
Alvarado Square MS. 0408
Albuquerque, NM 87158

Ron K
Toni
Barbara

one copy
returned by
Tech Comp Pgm

PNM

February 1, 1996

Certified Mail,
Return Receipt Requested

Mr. Benito Garcia
Executive Director
Chief, Hazardous and Radioactive
Materials Bureau
New Mexico Environment Department
P.O. Box 26110
Santa Fe, NM 87502

FEB - 6 1996

Dear Mr. Garcia:

Subject: Treatment Effectiveness Report, Fourth Quarter 1995, Groundwater Treatment System, Person Generating Station, NMT 360010342

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Toni Ristau
Director, Environmental Services

Enclosed please find three (3) copies of the subject report submitted pursuant to requirements contained in the Person Station Corrective Action Directive issued in September 1991.

If you have any questions, please contact me at (505) 241-2998.

Sincerely,

Ron D. Johnson
Sr. Environmental Scientist

enclosure

Public Service Company of New Mexico
Person Generating Station
Groundwater Treatment System

Treatment Effectiveness Report
Fourth Quarter 1995

February 1, 1996

Report Prepared Pursuant to Requirements Contained in:

The Person Generating Station Corrective Action Directive (NMT 360010342)
and
The New Mexico Environment Department Discharge Plan, DP-1006

PNMPS05f

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I. Introduction

This report is prepared pursuant to requirements contained in the Person Generating Station Corrective Action Directive (NMT360010342) issued by the New Mexico Environment Department (NMED) Hazardous and Radioactive Materials Bureau, and requirements contained in Discharge Plan DP-1006 issued by the NMED Groundwater Protection and Remediation Bureau.

This report contains information on sampling results and operational activities at the Person Station Ground Water Treatment System which is designed to extract volatile organic compound contaminated groundwater, treat through an air stripper and granular activated carbon filter and discharge the treated water to an irrigation pond at the UNM Championship Golf Course.

Figure 1 is a site map of the Person Generating Station vicinity and shows well locations and the location of the pipeline system.

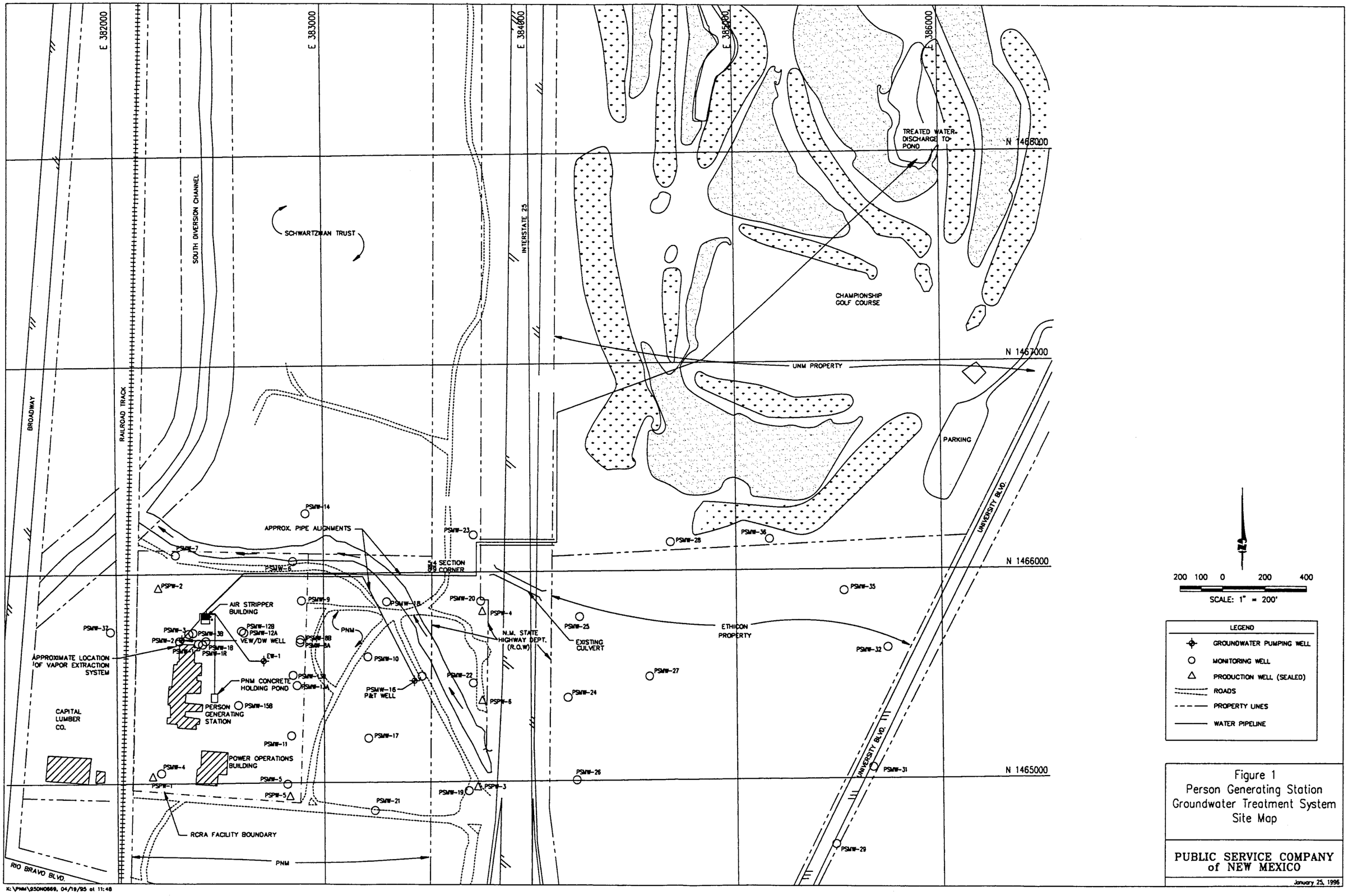


Figure 1
Person Generating Station
Groundwater Treatment System
Site Map

PUBLIC SERVICE COMPANY
of NEW MEXICO

January 25, 1996

K:\PNM\950N0669, 04/19/95 at 11:48

II. Operational History

The Person Station Groundwater Treatment system was started on Friday, January 27, 1995 with treated effluent being sent to the University of New Mexico Championship Golf Course. Due to concerns about the ability of the single check valve in the effluent line to hold should an automatic shut down occur over the weekend, the system was manually shut down at the end of the day. On Saturday, January 28, a second check valve (just outside the treatment building) was installed in the effluent line to the golf course. The groundwater treatment system was re-started on Monday, January 30, and semi-continuously operated until a scheduled planned shutdown occurred on March 8, 1995.

During the approximately 30 plus days of first operation, a series of groundwater level measurements were taken at monitoring wells in the vicinity of PSMW-16 and the VEW in order to determine the radius of influence of each well on the surrounding aquifer. Results from that data indicate that PSMW-16 has a radius of influence of 600 feet when pumped at 13.3 gpm, and the VEW has a radius of influence of 80 feet when pumped at 5.6 gpm.

On March 8, 1995, the groundwater treatment system was shut down in order to evaluate the recovery characteristics of the pumped aquifer and to conduct maintenance activities and equipment replacement in the system. During the first 30 days of operation it was determined that a better system of throttle valves was needed on the extraction wells, and that small changes in piping configuration inside the treatment building were needed. These changes were completed during the shut-down period.

The groundwater treatment system was re-started on April 10, 1995, after completion of the above mentioned maintenance activities. The system has operated semi-continuously during the remainder of 1995. Down times have been related to minor system problems encountered during operation.

In August 1995, a third extraction well was added to the system. This well was designated EW-1 and was drilled and completed specifically for extraction purposes.

During 1995, the system encountered periodic minor problems as well as a more serious problem with mineralization of the system components down stream from the air stripper. PNM contractor Parsons-Engineering Science, Inc. was asked to evaluate potential solutions for this problem. In late November, the mineralization problem became so severe that the system was shut down pending resolution of the problem.

III. Groundwater Treatment Effectiveness

Figures 2, 3 and 4 show graphs of concentration of total VOC's as measured at wells PSMW-16, VEW, and EW-1 over the operation of the groundwater treatment system. More detailed data for this operational year is shown in Tables 1, 2 and 3. From February 1, 1995 through March 8, 1995 the total Chlorinated VOC's dropped from 318.4 ppb to 128.3 ppb at PSMW-16. During the same period total Chlorinated VOC's dropped from 6.1 ppb to 1.8 ppb at the VEW. As anticipated, concentrations rose again when the system was restarted in April. Since that time concentrations have held relatively steady at PSMW-16. Concentrations at VEW have fluctuated up and down. Concentrations at EW-1 have risen over the four month period of its operation for this report.

Laboratory reports for this quarter are contained in Appendix A.

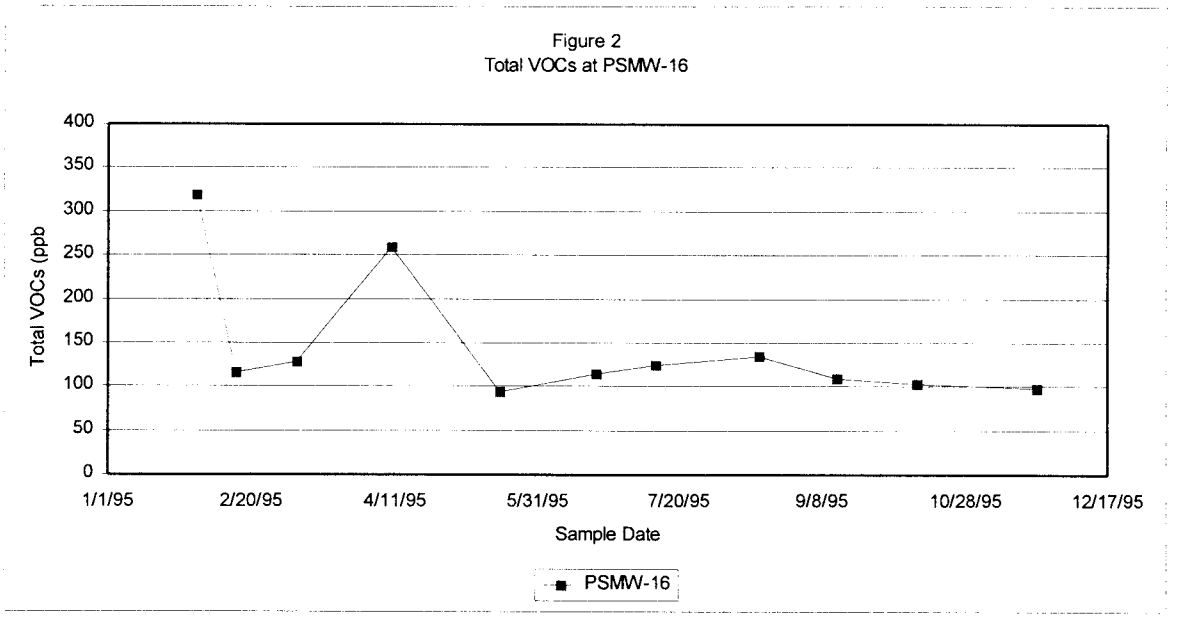


Figure 3
Total VOCs at the VEW

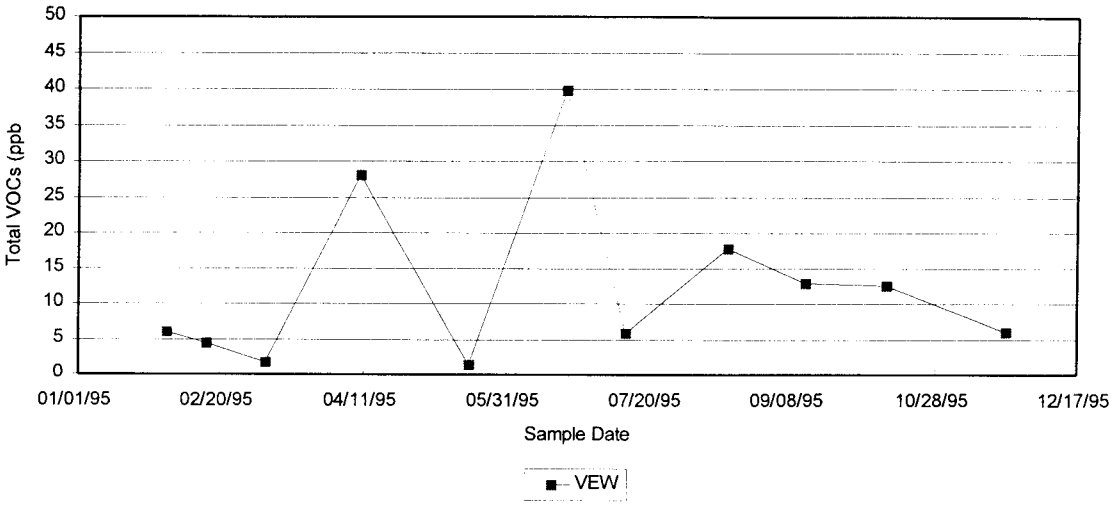


Figure 4
Total VOCs at EW-1

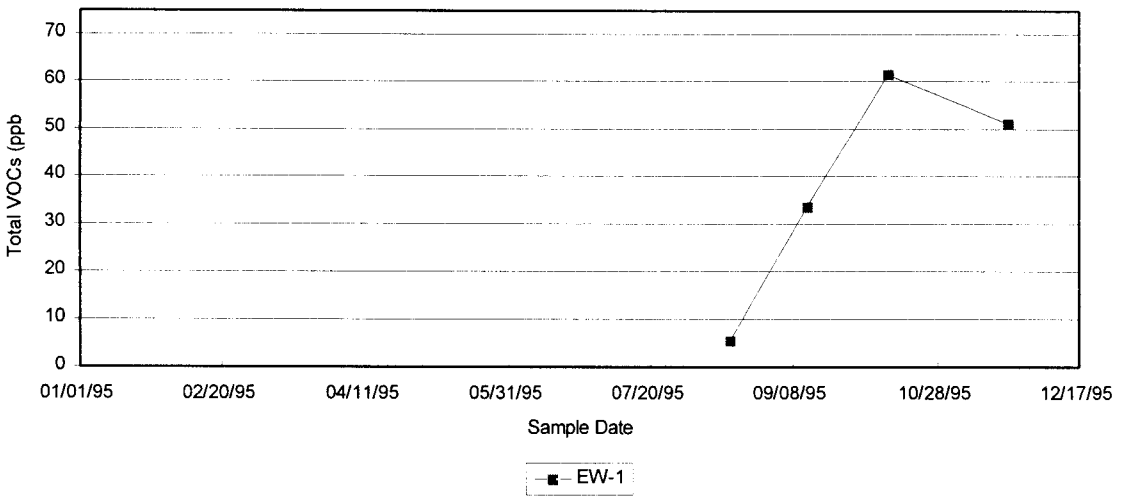


Table 1
Influent Concentrations From PSMW-16

Date	Laboratory Report No.	PCE (ppb)	DCE (ppb)	Total VOC's (ppb)
2/1/95	502304	200	110	318.4
2/15/95	502376	69	39	115.0
3/8/95	503317	78	46	128.3
4/10/95	504341	170	81	258.6
5/18/95	505371	62	30	94.6
6/21/95	506396	76	36	114.8
7/12/95	507327	75	41	124.3
8/17/95	508405	83	45	134.0
9/13/95	509339	69	35	109.2
10/11/95	510335	66	32	102.8
11/22/95	511367	58	35	97.5

Table 2
Influent Concentrations From VEW

Date	Laboratory Report No.	PCE (ppb)	DCE (ppb)	Total VOC's (ppb)
2/1/95	502304	5.3	0.8	6.1
2/15/95	502376	4	0.5	4.5
3/8/95	503317	1.5	0.3	1.8
4/10/95	504341	21	5.8	28.1
5/18/95	505371	1.4	< 0.2	1.4
6/21/95	506396	25	9.4	39.8
7/12/95	507327	3.5	1.0	5.8
8/17/95	508405	6.4	1.1	17.7
9/13/95	509405	9.7	1.9	12.9
10/11/95	510335	9.3	1.8	12.5
11/22/95	511367	4.6	1.1	6.0

Table 3
Influent Concentrations From EW-1

Date	Laboratory Report No.	PCE (ppb)	DCE(ppb)	Total VOC's (ppb)
8/17/95	508405	3.5	0.9	5.4
9/13/95	509339	25	6.1	33.6
10/11/95	510335	49	8.8	61.4
11/22/95	511367	38	9.5	51.3

IV. Operational Dates

The Person Station Groundwater Treatment system was operated from October 1, 1995 through November 22, 1995 in an almost continuous mode. The system was shut down November 22, 1995 due to excessive mineralization problems. The table below details significant operational activities for this report quarter.

Table 4
Significant Operational Activities
Fourth Quarter 1995

Date	Activity
10/18/95	GTS shut down at 15:23 due to transfer tank being too low, low level switch sticking and not working correctly.
10/19/95	Maintenance activity on clay valve assembly, re-started system.
10/23/95	Maintenance activity on clay valve assembly.
11/2/95	Maintenance activity, new parts components for clay valve assembly.
11/3/95	Replace "O" ring in top of clay valve.
11/22/95	System shut down due to carbon filter plugging due to excessive mineralization.

V. Influent and Effluent Flow Volumes

Flow totalizing meters are present on each influent well line and on the effluent flow line. The table below details flow volumes from each influent well and the effluent line. Differences between total effluent and total influent may be attributed to water loss (evaporation) out the stack in the air stripper system and to differences, inaccuracies, and operational problems with the flow meters.

Table 5
Influent and Effluent Flow Volumes

Source	Meter Number	Start Reading	End Reading	Volume (Gallons)
Flow Volumes for October 1995:				
Influent (VEW)	Badger Meter No. 94976130	1,250,416	1,337,635	87,219
Influent (PSMW-16)	Badger Meter No. 94398832	2,681,020	2,970,958	289,938
Influent (EW-1)	Badger Meter No. 94398833	401,910	607,893	205,983
Effluent (to Golf Course)	Badger Meter No. 94398834	4,200,939	4,782,250	581,311
Flow Volumes for November 1995:				
Influent (VEW)	Badger Meter No. 94976130	1,337,635	1,427,063	89,428
Influent (PSMW-16)	Badger Meter No. 94398832	2,970,958	3,385,030	414.072
Influent (EW-1)	Badger Meter No. 94398833	607,893	822,955	215,062
Effluent (to Golf Course)	Badger Meter No. 94398834	4,782,250	5,487,924	705,674
Flow Volumes for December 1995:				
Influent (VEW)	Badger Meter No. 94976130	1,427,063	1,427,063	0
Influent (PSMW-16)	Badger Meter No. 94398832	3,385,030	3,385,030	0
Influent (EW-1)	Badger Meter No. 94398833	822,955	822,955	0
Effluent (to Golf Course)	Badger Meter No. 94398834	5,487,924	5,487,924	0
Quarterly Total for Influent (VEW + PSMW-16 + EW-1):				1,301,702
Quarterly Total for Effluent:				1,286,985
Annual Totals				
Annual Cumulative Influent Total for 1995:				5,601,962
Annual Cumulative Effluent Total for 1995				5,660,681

VI. Laboratory Analysis

A. Influent/Effluent Sampling for VOC's (8010 analysis)

During the fourth operational quarter of the groundwater treatment system, influent and effluent sampling was conducted pursuant to the routine schedule outlined in the NMED approved discharge plan, i.e., once each month. (The system was not operational during December 1995, thus no influent/effluent samples were collected.) Total VOC analysis of GTS Influent and Effluent (after GAC units) is shown graphically in Figure 5. More detailed data results are shown in Table 6 below. Laboratory analytical data reports are contained in Appendix A. All influent/effluent sampling results show that the treatment system has consistently removed chlorinated VOC contaminants in the 50 to 200 ppb range to levels below laboratory detection limits in the effluent sent to the golf course. Laboratory analysis of the water stream at a point after the air stripper and before the granular activated carbon treatment also show that at these influent concentrations and a flow rate of approximately 20 to 25 gpm, the air stripper alone is capable of treating the groundwater to concentrations consistently below or near laboratory detection limits for chlorinated VOCs.

Figure 5
Total VOCs GTS Influent vs. Effluent

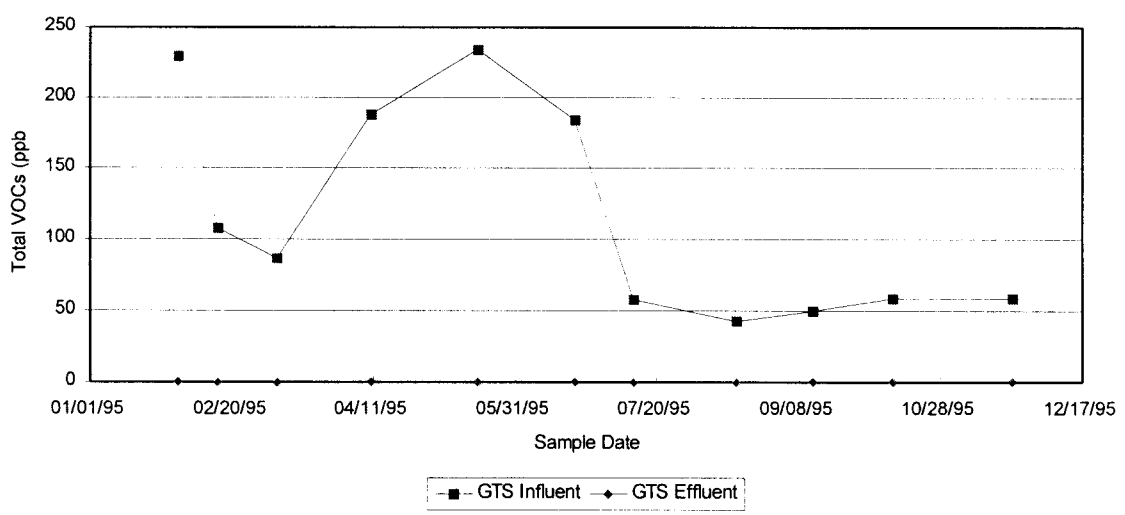


Table 6
Influent and Effluent VOC Concentrations

Sampling Date: 10/11/95	Lab Report Number: 510335		
VOC Compound	Influent (ppb)	Effluent After Air Stripper (ppb)	Effluent After GAC Unit (ppb)
Chloroform	0.8	< 0.5	< 0.5
1,1-Dichloroethane	0.3	< 0.2	< 0.2
1,1-Dichloroethene	14	< 0.2	< 0.2
Tetrachloroethene	42	< 0.5	< 0.5
1,1,1-Trichloroethane	2.0	< 1.0	< 1.0
TOTAL VOC'S	59.1	BDL	BDL

Date: Sampling 11/22/95	Lab Report Number: 511367		
VOC Compound	Influent (ppb)	Effluent After Air Stripper (ppb)	Effluent After GAC Unit (ppb)
Bromoform	0.6	< 0.5	< 0.5
Chloroform	< 0.5	< 0.5	< 0.5
1,1-Dichloroethane	< 0.3	< 0.3	< 0.3
1,1-Dichloroethene	17	< 0.2	< 0.2
1,1,2,2-Tetrachloroethane	< 0.2	< 0.2	0.2
Tetrachloroethene	39	< 0.5	< 0.5
1,1,1-Trichloroethane	1.9	< 1.0	< 1.0
TOTAL VOC'S	58.5	BDL	0.2

B. Golf Course Pond Sampling

The GTS NMED Discharge Plan (DP 1006) requires monthly sampling of the East and West ponds for 8010 analysis after the first month of operation, and during each subsequent month of operation. During the fourth quarter of 1995, the ponds were sampled three times pursuant to this requirement. No EPA Method 8010 parameters were detected in the samples. Copies of the laboratory reports are contained in Appendix A.

VII. Groundwater Sampling

Under the RCRA permit, a network of groundwater monitoring wells are sampled on a twice per year schedule (normally in the Spring and Fall). Once sampling is complete and analytical results have been received, contour maps showing the distribution of the contaminants in the groundwater are prepared. Contour maps for PCE, DCE, and TCA for the most recent sampling event are shown in Figures 6, 7, and 8.

Figure 6

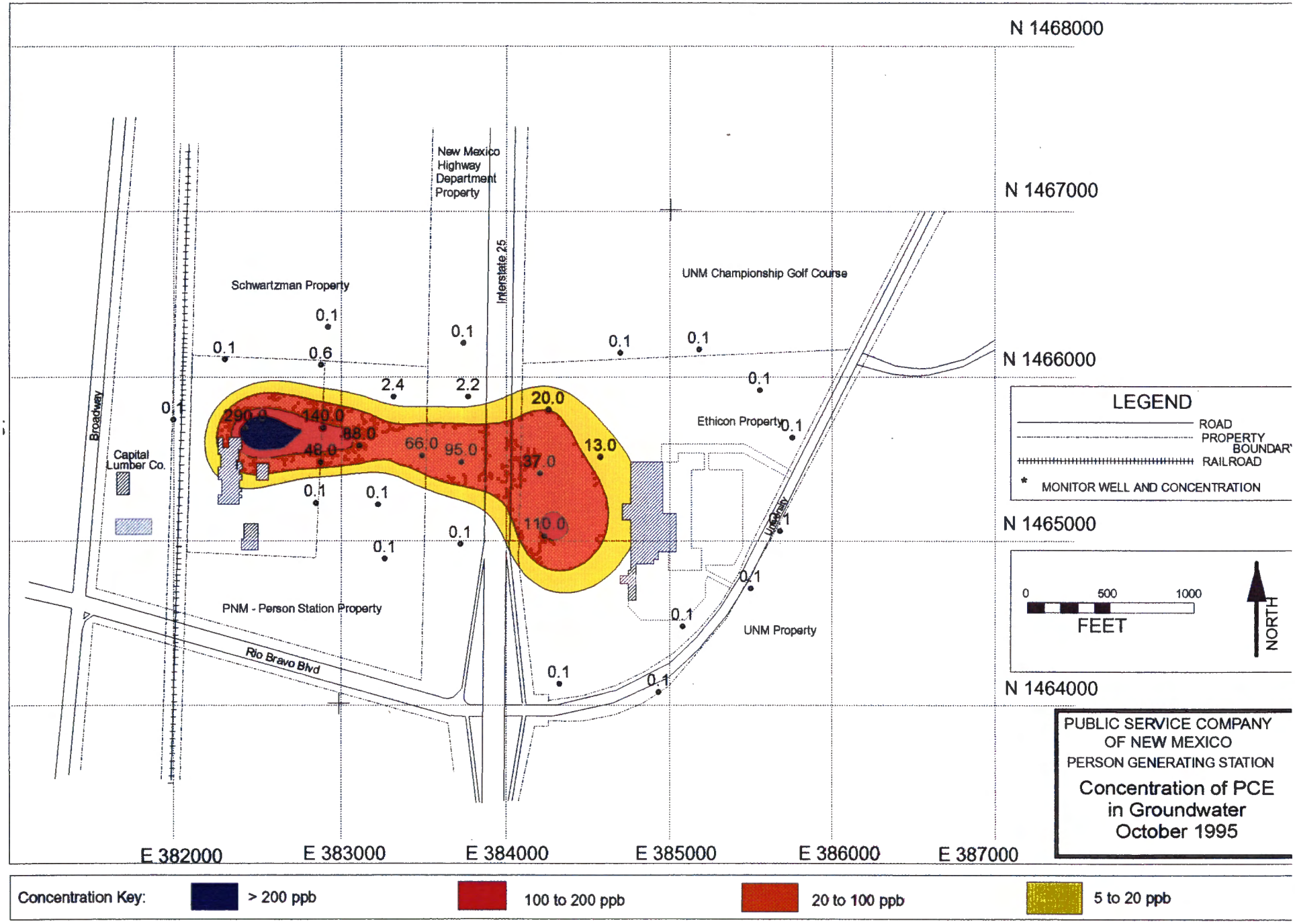
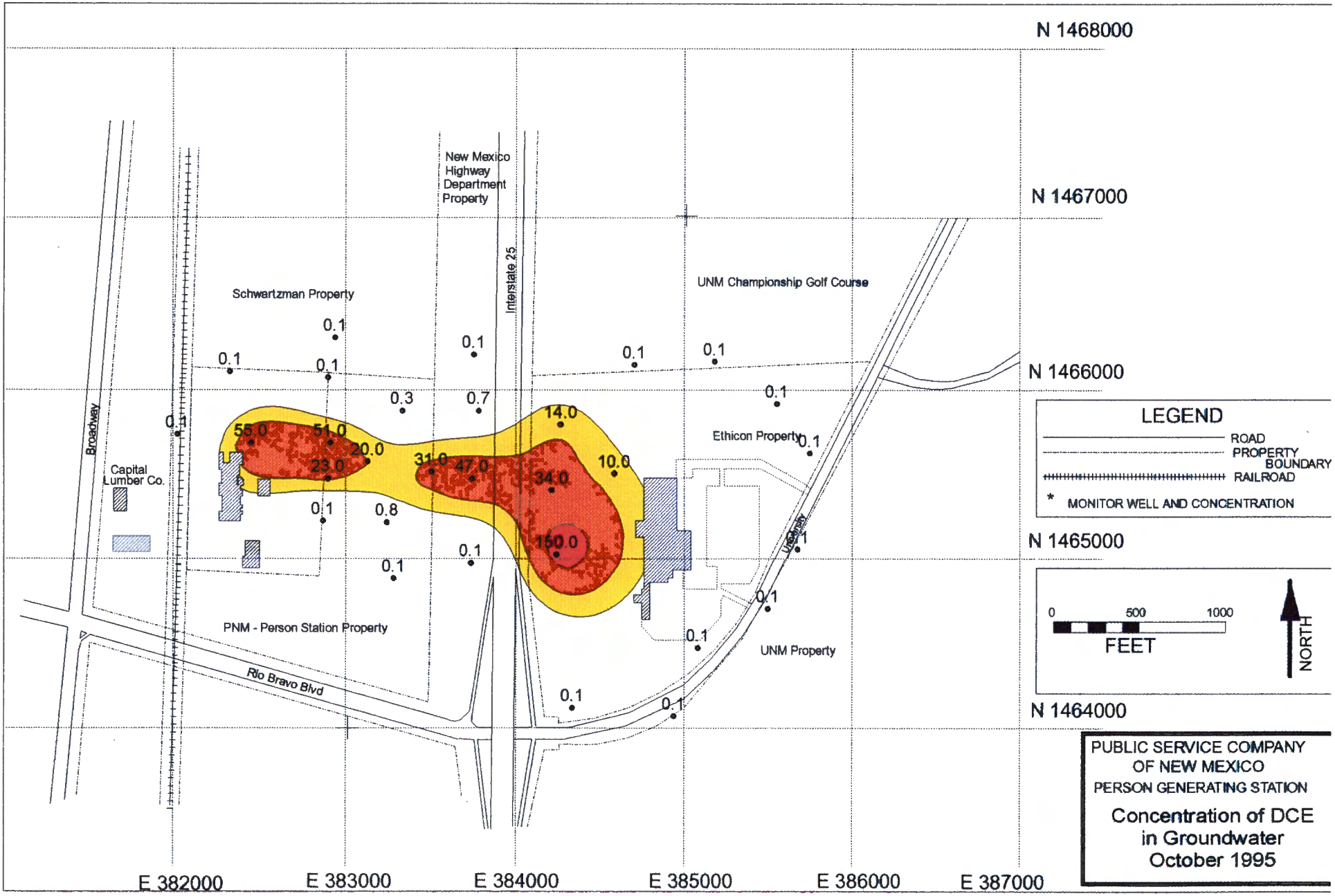

N 1468000
N 1467000
N 1466000
N 1465000
N 1464000
E 382000
E 383000
E 384000
E 385000
E 386000
E 387000
New Mexico Highway Department Property
Interstate 25
Schwartzman Property
UNM Championship Golf Course
Ethicon Property
Broadway
Capital Lumber Co.
PNM - Person Station Property
Rio Bravo Blvd
UNM Property
290.0
140.0
88.0
48.0
66.0
95.0
37.0
20.0
13.0
110.0
2.4
2.2
0.6
0.1
LEGEND
ROAD
PROPERTY BOUNDARY
RAILROAD
MONITOR WELL AND CONCENTRATION
0
500
1000
FEET
NORTH
PUBLIC SERVICE COMPANY OF NEW MEXICO
PERSON GENERATING STATION
Concentration of PCE in Groundwater October 1995
Concentration Key:
> 200 ppb
100 to 200 ppb
20 to 100 ppb
5 to 20 ppb

Figure 7


N 1468000
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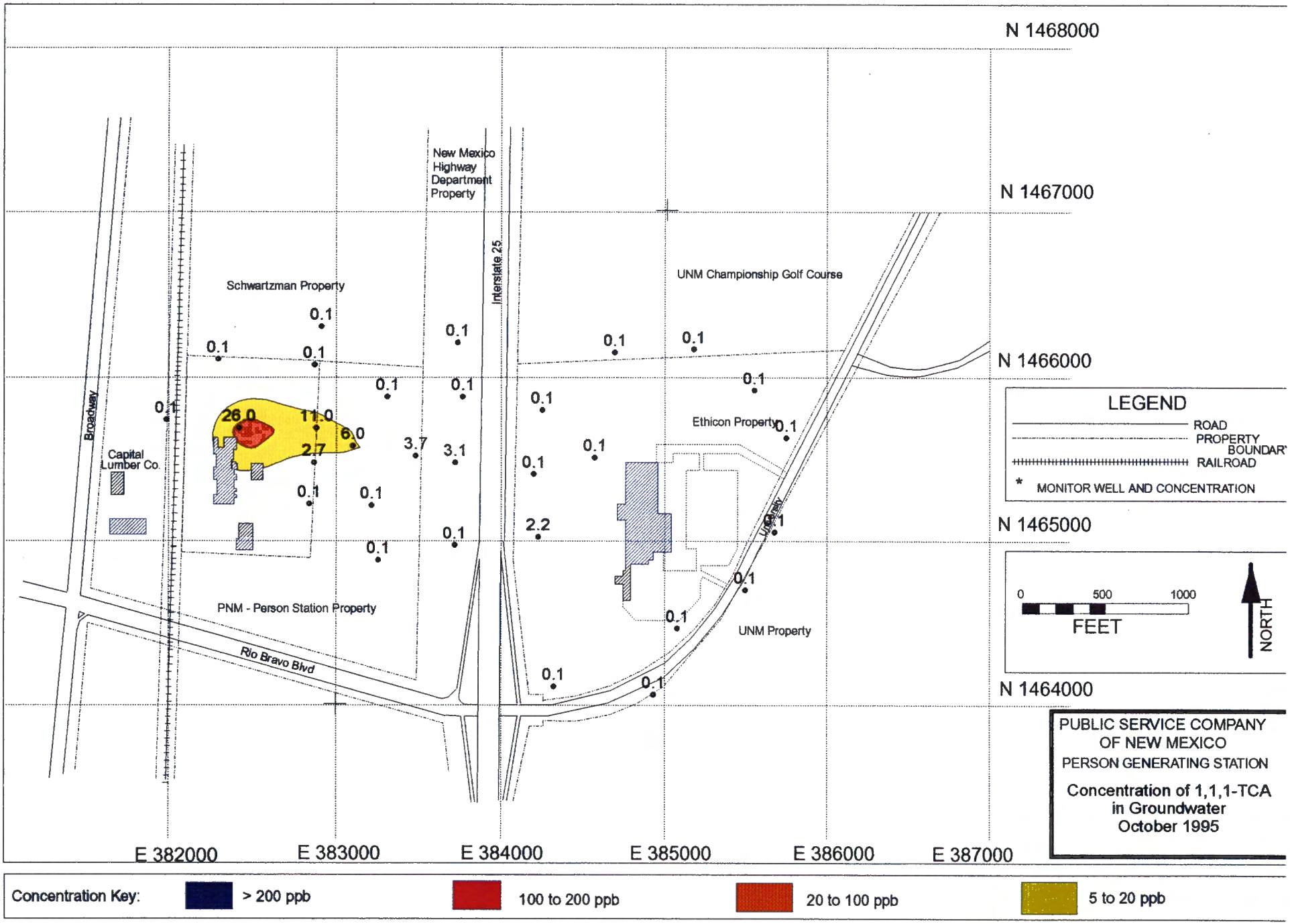
E 385000
E 386000
E 387000
New Mexico Highway Department Property
Interstate 25
Schwartzman Property
UNM Championship Golf Course
Ethicon Property
Capital Lumber Co.
Broadway
PNM - Person Station Property
Rio Bravo Blvd
UNM Property
University
55.0
51.0
20.0
23.0
31.0
47.0
14.0
34.0
10.0
160.0
0.1
0.3
0.7
0.8
LEGEND
ROAD
PROPERTY BOUNDARY
RAILROAD
* MONITOR WELL AND CONCENTRATION
0
500
1000
FEET
NORTH
PUBLIC SERVICE COMPANY OF NEW MEXICO
PERSON GENERATING STATION
Concentration of DCE in Groundwater October 1995
Concentration Key:
> 200 ppb
100 to 200 ppb
20 to 100 ppb
5 to 20 ppb

Figure 8


N 1468000
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E 387000
New Mexico Highway Department Property
Interstate 25
Schwartzman Property
UNM Championship Golf Course
Ethicon Property
Capital Lumber Co.
Broadway
PNM - Person Station Property
Rio Bravo Blvd
UNM Property
26.0
11.0
6.0
2.7
3.7
3.1
2.2
0.1
LEGEND
ROAD
PROPERTY BOUNDARY
RAILROAD
* MONITOR WELL AND CONCENTRATION
0
500
1000
FEET
NORTH
PUBLIC SERVICE COMPANY OF NEW MEXICO
PERSON GENERATING STATION
Concentration of 1,1,1-TCA in Groundwater October 1995
Concentration Key:
> 200 ppb
100 to 200 ppb
20 to 100 ppb
5 to 20 ppb

Appendix A. Laboratory Reports

AnalyticalTechnologies,Inc.

2709-D Pan American Freeway, NE Albuquerque, NM 87107
Phone (505) 344-3777 FAX (505) 344-4413

ATI I.D. **510335**

October 18, 1995

Public Service Co of NM
Alvarado Square MS0408
Albuquerque, NM 87158

Project Name/Number: PERSON STATION REMEDIATION

Attention: Steve Anderson

On **10/11/95**, Analytical Technologies, 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

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager

MR:jt

Enclosure

AnalyticalTechnologies,Inc.

CLIENT : PUBLIC SERVICE CO OF NM
PROJECT # : REMEDIATION
PROJECT NAME : PERSON STATION

DATE RECEIVED : 10/11/95
REPORT DATE : 10/18/95

ATI ID: 510335

ATI #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	GTS-INFLUENT	AQUEOUS	10/11/95
02	GTS-AIR STRIPPER EFFLUENT WEST	AQUEOUS	10/11/95
03	GTS GAC EFFLUENT	AQUEOUS	10/11/95
04	UNM EAST RESERVOIR	AQUEOUS	10/11/95
05	UNM WEST RESERVOIR	AQUEOUS	10/11/95
06	VEW INFLUENT	AQUEOUS	10/11/95
07	PSMW-16 INFLUENT	AQUEOUS	10/11/95
08	EW-1 INFLUENT	AQUEOUS	10/11/95
09	TRIP BLANK	AQUEOUS	10/11/95

---TOTALS---

MATRIX	#SAMPLES
AQUEOUS	9

ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.

AnalyticalTechnologies,Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : PURGEABLE HALOCARBONS (EPA 8010)
CLIENT : PUBLIC SERVICE CO OF NM ATI I.D.: 510335
PROJECT # : REMEDIATION
PROJECT NAME : PERSON STATION

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	GTS-INFLUENT	AQUEOUS	10/11/95	NA	10/13/95	1
02	GTS-AIR STRIPPER EFFLUENT WEST	AQUEOUS	10/11/95	NA	10/13/95	1
03	GTS GAC EFFLUENT WEST	AQUEOUS	10/11/95	NA	10/13/95	1

PARAMETER	UNITS	01	02	03
BROMODICHLOROMETHANE	UG/L	<0.2	<0.2	<0.2
BROMOFORM	UG/L	<0.5	<0.5	<0.5
BROMOMETHANE	UG/L	<1.0	<1.0	<1.0
CARBON TETRACHLORIDE	UG/L	<0.2	<0.2	<0.2
CHLOROBENZENE	UG/L	<0.5	<0.5	<0.5
CHLOROETHANE	UG/L	<0.5	<0.5	<0.5
CHLOROFORM	UG/L	0.8	<0.5	<0.5
CHLOROMETHANE	UG/L	<1.0	<1.0	<1.0
DIBROMOCHLOROMETHANE	UG/L	<0.2	<0.2	<0.2
1,2-DIBROMOETHANE (EDB)	UG/L	<0.2	<0.2	<0.2
1,2-DICHLOROBENZENE	UG/L	<0.5	<0.5	<0.5
1,3-DICHLOROBENZENE	UG/L	<0.5	<0.5	<0.5
1,4-DICHLOROBENZENE	UG/L	<0.5	<0.5	<0.5
1,1-DICHLOROETHANE	UG/L	0.3	<0.2	<0.2
1,2-DICHLOROETHANE (EDC)	UG/L	<0.5	<0.5	<0.5
1,1-DICHLOROETHENE	UG/L	14	<0.2	<0.2
CIS-1,2-DICHLOROETHENE	UG/L	<0.2	<0.2	<0.2
TRANS-1,2-DICHLOROETHENE	UG/L	<1.0	<1.0	<1.0
1,2-DICHLOROPROPANE	UG/L	<0.2	<0.2	<0.2
CIS-1,3-DICHLOROPROPENE	UG/L	<0.2	<0.2	<0.2
TRANS-1,3-DICHLOROPROPENE	UG/L	<0.2	<0.2	<0.2
METHYLENE CHLORIDE	UG/L	<2.0	<2.0	<2.0
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.2	<0.2	<0.2
TETRACHLOROETHENE	UG/L	42 D(10)	<0.5	<0.5
1,1,1-TRICHLOROETHANE	UG/L	2.0	<1.0	<1.0
1,1,2-TRICHLOROETHANE	UG/L	<0.2	<0.2	<0.2
TRICHLOROETHENE	UG/L	<0.2	<0.2	<0.2
TRICHLOROFLUOROMETHANE	UG/L	<0.2	<0.2	<0.2
VINYL CHLORIDE	UG/L	<0.5	<0.5	<0.5
SURROGATE:				
BROMOCHLOROMETHANE (%)		105	109	114

D(10)=DILUTED 10X, ANALYZED 10/16/95

AnalyticalTechnologies,Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : PURGEABLE HALOCARBONS (EPA 8010)
CLIENT : PUBLIC SERVICE CO OF NM ATI I.D.: 510335
PROJECT # : REMEDIATION
PROJECT NAME : PERSON STATION

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	UNM EAST RESERVOIR	AQUEOUS	10/11/95	NA	10/13/95	1
05	UNM WEST RESERVOIR	AQUEOUS	10/11/95	NA	10/13/95	1
06	VEW INFLUENT	AQUEOUS	10/11/95	NA	10/14/95	1

PARAMETER	UNITS	04	05	06
BROMODICHLOROMETHANE	UG/L	<0.2	<0.2	<0.2
BROMOFORM	UG/L	<0.5	<0.5	<0.5
BROMOMETHANE	UG/L	<1.0	<1.0	<1.0
CARBON TETRACHLORIDE	UG/L	<0.2	<0.2	<0.2
CHLOROBENZENE	UG/L	<0.5	<0.5	<0.5
CHLOROETHANE	UG/L	<0.5	<0.5	<0.5
CHLOROFORM	UG/L	<0.5	<0.5	<0.5
CHLOROMETHANE	UG/L	<1.0	<1.0	<1.0
DIBROMOCHLOROMETHANE	UG/L	<0.2	<0.2	<0.2
1,2-DIBROMOETHANE (EDB)	UG/L	<0.2	<0.2	<0.2
1,2-DICHLOROBENZENE	UG/L	<0.5	<0.5	<0.5
1,3-DICHLOROBENZENE	UG/L	<0.5	<0.5	<0.5
1,4-DICHLOROBENZENE	UG/L	<0.5	<0.5	<0.5
1,1-DICHLOROETHANE	UG/L	<0.2	<0.2	0.2
1,2-DICHLOROETHANE (EDC)	UG/L	<0.5	<0.5	<0.5
1,1-DICHLOROETHENE	UG/L	<0.2	<0.2	1.8
CIS-1,2-DICHLOROETHENE	UG/L	<0.2	<0.2	<0.2
TRANS-1,2-DICHLOROETHENE	UG/L	<1.0	<1.0	<1.0
1,2-DICHLOROPROPANE	UG/L	<0.2	<0.2	<0.2
CIS-1,3-DICHLOROPROPENE	UG/L	<0.2	<0.2	<0.2
TRANS-1,3-DICHLOROPROPENE	UG/L	<0.2	<0.2	<0.2
METHYLENE CHLORIDE	UG/L	<2.0	<2.0	<2.0
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.2	<0.2	<0.2
TETRACHLOROETHENE	UG/L	<0.5	<0.5	9.3
1,1,1-TRICHLOROETHANE	UG/L	<1.0	<1.0	1.2
1,1,2-TRICHLOROETHANE	UG/L	<0.2	<0.2	<0.2
TRICHLOROETHENE	UG/L	<0.2	<0.2	<0.2
TRICHLOROFLUOROMETHANE	UG/L	<0.2	<0.2	<0.2
VINYL CHLORIDE	UG/L	<0.5	<0.5	<0.5

SURROGATE:

BROMOCHLOROMETHANE (%)	106	113	112

AnalyticalTechnologies,Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : PURGEABLE HALOCARBONS (EPA 8010)
CLIENT : PUBLIC SERVICE CO OF NM ATI I.D.: 510335
PROJECT # : REMEDIATION
PROJECT NAME : PERSON STATION

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
07	PSMW-16 INFLUENT	AQUEOUS	10/11/95	NA	10/16/95	1
08	EW-1 INFLUENT	AQUEOUS	10/11/95	NA	10/14/95	1
09	TRIP BLANK	AQUEOUS	10/11/95	NA	10/14/95	1

PARAMETER	UNITS	07	08	09
BROMODICHLOROMETHANE	UG/L	<0.2	<0.2	<0.2
BROMOFORM	UG/L	<0.5	<0.5	<0.5
BROMOMETHANE	UG/L	<1.0	<1.0	<1.0
CARBON TETRACHLORIDE	UG/L	<0.2	<0.2	<0.2
CHLOROBENZENE	UG/L	<0.5	<0.5	<0.5
CHLOROETHANE	UG/L	<0.5	<0.5	<0.5
CHLOROFORM	UG/L	1.6	<0.5	<0.5
CHLOROMETHANE	UG/L	<1.0	<1.0	<1.0
DIBROMOCHLOROMETHANE	UG/L	<0.2	<0.2	<0.2
1,2-DIBROMOETHANE (EDB)	UG/L	<0.2	<0.2	<0.2
1,2-DICHLOROBENZENE	UG/L	<0.5	<0.5	<0.5
1,3-DICHLOROBENZENE	UG/L	<0.5	<0.5	<0.5
1,4-DICHLOROBENZENE	UG/L	<0.5	<0.5	<0.5
1,1-DICHLOROETHANE	UG/L	0.3	0.6	<0.2
1,2-DICHLOROETHANE (EDC)	UG/L	<0.5	<0.5	<0.5
1,1-DICHLOROETHENE	UG/L	32 D(10)	8.8	<0.2
CIS-1,2-DICHLOROETHENE	UG/L	<0.2	<0.2	<0.2
TRANS-1,2-DICHLOROETHENE	UG/L	<1.0	<1.0	<1.0
1,2-DICHLOROPROPANE	UG/L	<0.2	<0.2	<0.2
CIS-1,3-DICHLOROPROPENE	UG/L	<0.2	<0.2	<0.2
TRANS-1,3-DICHLOROPROPENE	UG/L	<0.2	<0.2	<0.2
METHYLENE CHLORIDE	UG/L	<2.0	<2.0	<2.0
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.2	<0.2	<0.2
TETRACHLOROETHENE	UG/L	66 D(10)	49 D(10)	<0.5
1,1,1-TRICHLOROETHANE	UG/L	2.9	2.8	<1.0
1,1,2-TRICHLOROETHANE	UG/L	<0.2	<0.2	<0.2
TRICHLOROETHENE	UG/L	<0.2	0.2	<0.2
TRICHLOROFLUOROMETHANE	UG/L	<0.2	<0.2	<0.2
VINYL CHLORIDE	UG/L	<0.5	<0.5	<0.5

SURROGATE:

BROMOCHLOROMETHANE (%)	114	112	110

D(10)=DILUTED 10X, ANALYZED 10/16/95

AnalyticalTechnologies,Inc.

GAS CHROMATOGRAPHY RESULTS - QUALITY CONTROL

REAGENT BLANK

TEST	: EPA 8010	ATI I.D.	: 510335
BLANK I.D.	: 101395	MATRIX	: AQUEOUS
CLIENT	: PUBLIC SERVICE CO OF NM	DATE EXTRACTED	: NA
PROJECT #	: REMEDIATION	DATE ANALYZED	: 10/13/95
PROJECT NAME	: PERSON STATION	DIL. FACTOR	: 1

PARAMETER	UNITS	
BROMODICHLOROMETHANE	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	<0.2
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
METHYLENE CHLORIDE	UG/L	<2.0
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.2
TETRACHLOROETHENE	UG/L	<0.5
1,1,1-TRICHLOROETHANE	UG/L	<1.0
1,1,2-TRICHLOROETHANE	UG/L	<0.2
TRICHLOROETHENE	UG/L	<0.2
TRICHLOROFLUOROMETHANE	UG/L	<0.2
VINYL CHLORIDE	UG/L	<0.5
SURROGATE:		
BROMOCHLOROMETHANE (%)		113

AnalyticalTechnologies,Inc.

GAS CHROMATOGRAPHY RESULTS - QUALITY CONTROL

REAGENT BLANK

TEST	: EPA 8010	ATI I.D.	: 510335
BLANK I.D.	: 101695	MATRIX	: AQUEOUS
CLIENT	: PUBLIC SERVICE CO OF NM	DATE EXTRACTED	: NA
PROJECT #	: REMEDIATION	DATE ANALYZED	: 10/16/95
PROJECT NAME	: PERSON STATION	DIL. FACTOR	: 1

PARAMETER	UNITS	
BROMODICHLOROMETHANE	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	<0.2
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
METHYLENE CHLORIDE	UG/L	<2.0
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.2
TETRACHLOROETHENE	UG/L	<0.5
1,1,1-TRICHLOROETHANE	UG/L	<1.0
1,1,2-TRICHLOROETHANE	UG/L	<0.2
TRICHLOROETHENE	UG/L	<0.2
TRICHLOROFLUOROMETHANE	UG/L	<0.2
VINYL CHLORIDE	UG/L	<0.5

SURROGATE:

BROMOCHLOROMETHANE (%)	110

AnalyticalTechnologies,Inc.

GAS CHROMATOGRAPHY - QUALITY CONTROL

MSMSD

TEST	: PURGEABLE HALOCARBONS (EPA 8010)		
MSMSD #	: 51033503	ATI I.D.	: 510335
CLIENT	: PUBLIC SERVICE CO OF NM	DATE EXTRACTED	: NA
PROJECT #	: REMEDIATION	DATE ANALYZED	: 10/17/95
PROJECT NAME	: PERSON STATION	SAMPLE MATRIX	: AQUEOUS
REF. I.D.	: 51033503	UNITS	: UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD
CHLOROBENZENE	<0.5	10	11	110	11	110	0
1,1-DICHLOROETHENE	<0.2	10	7.7	77	7.9	79	3
TRICHLOROETHENE	<0.2	10	12	120	12	120	0

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

AnalyticalTechnologies,Inc., Albuquerque, NM
San Diego • Phoenix • Seattle • Pensacola • Ft. Collins • Portland • Albuquerque

CHAIN OF CUSTODY

DATE: 10-11-95 PAGE 1 OF 2

ATI LAB I.D. 570335

PLEASE FILL THIS FORM IN COMPLETELY. SHADED AREAS ARE FOR LAB USE ONLY.

PROJECT MANAGER: ~~RON JOHNSON~~ Steve Anderson

COMPANY: PUBLIC SERVICE COMPANY OF NEW MEXICO
ADDRESS: ALVARADO SQUARE - 0408
ALBUQUERQUE, NM 87158
PHONE: (505) 241-~~2998~~ 2576
FAX: (505) 241-~~2340~~ 2497

BILL TO: SAME
COMPANY:
ADDRESS:
ATTN: ~~RON JOHNSON~~ Steve Anderson

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1)	(MOD 8015) Gas/Diesel	Diesel/Gasoline/BTXE/MTBE (MOD 8015/8020)	BTXE/MTBE (8020)			Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	SDWA Volatiles (502.1/503.1), 502.2 Reg. & Unreg.			Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	Polynuclear Aromatics (610/8310)			SDWA Primary Standards - Arizona	SDWA Secondary Standards - Arizona	SDWA Primary Standards - Federal	SDWA Secondary Standards - Federal			The 13 Priority Pollutant Metals	RCRA Metals by Total Digestion	RCRA Metals by TCLP (1311)		NUMBER OF CONTAINERS
GTS-INFLUENT	10-11-95	0933	W	-01							X																						3
~~GTS-AIR STRIPPER EFFLUENT EAST~~			~~W~~	~~-02~~							~~X~~																						
GTS-AIR STRIPPER EFFLUENT WEST	10-11-95	0930	W	-02							X																						3
~~GTS GAC EFFLUENT EAST~~	~~10-11-95~~	~~0~~	~~W~~								~~X~~																						
GTS GAC EFFLUENT WEST	10-11-95	0928	W	-03							X																						3
UNM EAST RESERVOIR	10-11-95	0950	W	-04							X																						3
UNM WEST RESERVOIR	10-11-95	1000	W	-05							X																						3
~~TRIP BLANK~~			~~W~~	~~-06~~							~~X~~																						

PROJECT INFORMATION		SAMPLE RECEIPT	
PROJ. NO.:	REMEDIATION	NO. CONTAINERS	65
PROJ. NAME:	PERSON STATION	CUSTODY SEALS	Y / N / NA
P.O. NO.:		RECEIVED INTACT	Y
SHIPPED VIA:		RECEIVED COLD	Y

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐24hr ☐48hr ☐72hr ☐1 WEEK (NORMAL) ☐2 WEEK

Comments:

PLEASE PROVIDE DATA ON DISKETTE AS WELL AS HARD COPY
Direct field

SAMPLED & RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Time: 1100	Signature: Time:	Signature: Time:
Printed Name: Date: Chuck Antes 10-11-95	Printed Name: Date:	Printed Name: Date:
Company: PNM Phone: 241-4744	Company:	Company:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY: (LAB) 3.
Signature: Time:	Signature: Time:	Signature: Time: 11:39
Printed Name: Date:	Printed Name: Date:	Printed Name: Date: Dan Johnson 10-11-95
Company:	Company:	Analytical Technologies, Inc.

ATI Labs: S go (619) 458-9141 • Phoenix (602) 496-4400 • Seattle (206) 228-8335 • Pensacola (904) 474-10 rtland (503) 684-0447 • Albuquerque (505) 344-3777 DISTRIBUTION: White, Canary - ATI • ORIGINATOR

PROJECT MANAGER: ~~RON JOHNSON~~ Steve Anderson

COMPANY: PUBLIC SERVICE COMPANY OF NEW MEXICO
ADDRESS: ALVARADO SQUARE - 0408
ALBUQUERQUE, NM 87158
PHONE: (505) 241-~~2998~~ 2576
FAX: (505) 241-~~2340~~ 2487

BILL TO: SAME
COMPANY:
ADDRESS:
ATTN: ~~RON JOHNSON~~ Steve Anderson

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1)	(MOD 8015) Gas/Diesel	Diesel/Gasoline/BTXE/MTBE (MOD 8015/8020)	BTXE/MTBE (8020)			Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	SDWA Volatiles (502.1/503.1), 502.2 Reg. & Unreg.			Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	Polynuclear Aromatics (610/8310)			SDWA Primary Standards - Arizona	SDWA Secondary Standards - Arizona	SDWA Primary Standards - Federal	SDWA Secondary Standards - Federal			The 13 Priority Pollutant Metals	RCRA Metals by Total Digestion	RCRA Metals by TCLP (1311)		NUMBER OF CONTAINERS
VEW INFLUENT	10-11-95	0923	W	~~-07~~ 06							X																						3
PSMW-16 INFLUENT	10-11-95	0925	W	~~-08~~ 07							X																						3
EW-1 INFLUENT	10-11-95	0926	W	~~-09~~ 08							X																						3
~~PSMW-24,25,26 INFLUENT~~			~~W~~								~~X~~																						
TRIP BLANK	10/11	0815	W	~~-09~~ 10							X																						1

PROJECT INFORMATION		SAMPLE RECEIPT	
PROJ. NO.:	REMEDIATION	NO. CONTAINERS	10
PROJ. NAME:	PERSON STATION	CUSTODY SEALS	Y / N / NA
P.O. NO.:		RECEIVED INTACT	Y
SHIPPED VIA:		RECEIVED COLD	Y

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) ☐ 2 WEEK

Comments:

PLEASE PROVIDE DATA ON DISKETTE AS WELL AS HARD COPY

Direct from field

SAMPLED & RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [illegible] Time: 1124	Signature: Time:	Signature: Time:
Printed Name: Charles Marrin Date: 10-11-95	Printed Name: Date:	Printed Name: Date:
Company: Pwin Phone: 241-4744	Company:	Company:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY:(LAB) 3.
Signature: Time:	Signature: Time:	Signature: [illegible] Time: 11:40
Printed Name: Date:	Printed Name: Date:	Printed Name: Dan Johnson Date: 10:11:95
Company:	Company:	Analytical Technologies, Inc.

Analytical Technologies, Inc.

2709-D Pan American Freeway, NE Albuquerque, NM 87107
Phone (505) 344-3777 FAX (505) 344-4413

ATI I.D. **511367**

December 8, 1995

Public Service Co of NM
Alvarado Square ER16
Albuquerque, NM 87158

Project Name/Number: PERSON STATION REMEDIATION

Attention: Steve Anderson

On **11/22/95**, Analytical Technologies, 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

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager

MR:jt

Enclosure

AnalyticalTechnologies, Inc.

CLIENT : PUBLIC SERVICE CO OF NM
PROJECT # : REMEDIATION
PROJECT NAME : PERSON STATION

DATE RECEIVED : 11/22/95
REPORT DATE : 12/08/95

ATI ID: 511367

ATI #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	GTS-INFLUENT	AQUEOUS	11/22/95
02	GTS-AIR STRIPPER EFFLUENT WEST	AQUEOUS	11/22/95
03	GTS GAC EFFLUENT WEST	AQUEOUS	11/22/95
04	UNM EAST RESERVOIR	AQUEOUS	11/22/95
05	UNM WEST RESERVOIR	AQUEOUS	11/22/95
06	VEW INFLUENT	AQUEOUS	11/22/95
07	PSMW-16 INFLUENT	AQUEOUS	11/22/95
08	EW-1 INFLUENT	AQUEOUS	11/22/95
09	TRIP BLANK	AQUEOUS	11/20/95

---TOTALS---

MATRIX	#SAMPLES
AQUEOUS	9

ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.

AnalyticalTechnologies,Inc. GAS CHROMATOGRAPHY RESULTS

TEST : PURGEABLE HALOCARBONS (EPA 8010)
CLIENT : PUBLIC SERVICE CO OF NM ATI I.D.: 511367
PROJECT # : REMEDIATION
PROJECT NAME : PERSON STATION

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	GTS-INFLUENT	AQUEOUS	11/22/95	NA	12/04/95	1
02	GTS-AIR STRIPPER WEST	AQUEOUS	11/22/95	NA	12/04/95	1
03	GTS GAC EFFLUENT WEST	AQUEOUS	11/22/95	NA	12/04/95	1

PARAMETER	UNITS	01	02	03
BROMODICHLOROMETHANE	UG/L	<0.2	<0.2	<0.2
BROMOFORM	**UG/L**	**0.6**	<0.5	<0.5
BROMOMETHANE	UG/L	<1.0	<1.0	<1.0
CARBON TETRACHLORIDE	UG/L	<0.2	<0.2	<0.2
CHLOROBENZENE	UG/L	<0.5	<0.5	<0.5
CHLOROETHANE	UG/L	<0.5	<0.5	<0.5
CHLOROFORM	UG/L	<0.5	<0.5	<0.5
CHLOROMETHANE	UG/L	<1.0	<1.0	<1.0
DIBROMOCHLOROMETHANE	UG/L	<0.2	<0.2	<0.2
1,2-DIBROMOETHANE (EDB)	UG/L	<0.2	<0.2	<0.2
1,2-DICHLOROBENZENE	UG/L	<0.5	<0.5	<0.5
1,3-DICHLOROBENZENE	UG/L	<0.5	<0.5	<0.5
1,4-DICHLOROBENZENE	UG/L	<0.5	<0.5	<0.5
1,1-DICHLOROETHANE	UG/L	<0.3	<0.3	<0.3
1,2-DICHLOROETHANE (EDC)	UG/L	<0.5	<0.5	<0.5
1,1-DICHLOROETHENE	**UG/L**	**17**	<0.2	<0.2
CIS-1,2-DICHLOROETHENE	UG/L	<0.2	<0.2	<0.2
TRANS-1,2-DICHLOROETHENE	UG/L	<1.0	<1.0	<1.0
1,2-DICHLOROPROPANE	UG/L	<0.2	<0.2	<0.2
CIS-1,3-DICHLOROPROPENE	UG/L	<0.2	<0.2	<0.2
TRANS-1,3-DICHLOROPROPENE	UG/L	<0.2	<0.2	<0.2
METHYLENE CHLORIDE	UG/L	<2.0	<2.0	<2.0
1,1,2,2-TETRACHLOROETHANE	**UG/L**	<0.2	<0.2	**0.2**
TETRACHLOROETHENE	**UG/L**	**39 D(10)**	<0.5	<0.5
1,1,1-TRICHLOROETHANE	**UG/L**	**1.9**	<1.0	<1.0
1,1,2-TRICHLOROETHANE	UG/L	<0.2	<0.2	<0.2
TRICHLOROETHENE	UG/L	<0.3	<0.3	<0.3
TRICHLOROFLUOROMETHANE	UG/L	<0.2	<0.2	<0.2
VINYL CHLORIDE	UG/L	<0.5	<0.5	<0.5
SURROGATE:				
BROMOCHLOROMETHANE (%)		99	95	99

D(10)=DILUTED 10X, ANALYZED 12/04/95

AnalyticalTechnologies,Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : PURGEABLE HALOCARBONS (EPA 8010)
CLIENT : PUBLIC SERVICE CO OF NM ATI I.D.: 511367
PROJECT # : REMEDIATION
PROJECT NAME : PERSON STATION

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	UNM EAST RESERVOIR	AQUEOUS	11/22/95	NA	12/04/95	1
05	UNM WEST RESERVOIR	AQUEOUS	11/22/95	NA	12/04/95	1
06	VEW INFLUENT	AQUEOUS	11/22/95	NA	12/05/95	1

PARAMETER	UNITS	04	05	06
BROMODICHLOROMETHANE	UG/L	<0.2	<0.2	<0.2
BROMOFORM	UG/L	<0.5	<0.5	<0.5
BROMOMETHANE	UG/L	<1.0	<1.0	<1.0
CARBON TETRACHLORIDE	UG/L	<0.2	<0.2	<0.2
CHLOROBENZENE	UG/L	<0.5	<0.5	<0.5
CHLOROETHANE	UG/L	<0.5	<0.5	<0.5
CHLOROFORM	UG/L	<0.5	<0.5	<0.5
CHLOROMETHANE	UG/L	<1.0	<1.0	<1.0
DIBROMOCHLOROMETHANE	UG/L	<0.2	<0.2	<0.2
1,2-DIBROMOETHANE (EDB)	UG/L	<0.2	<0.2	<0.2
1,2-DICHLOROBENZENE	UG/L	<0.5	<0.5	<0.5
1,3-DICHLOROBENZENE	UG/L	<0.5	<0.5	<0.5
1,4-DICHLOROBENZENE	UG/L	<0.5	<0.5	<0.5
1,1-DICHLOROETHANE	**UG/L**	<0.3	<0.3	**0.3**
1,2-DICHLOROETHANE (EDC)	UG/L	<0.5	<0.5	<0.5
1,1-DICHLOROETHENE	**UG/L**	<0.2	<0.2	**1.1**
CIS-1,2-DICHLOROETHENE	UG/L	<0.2	<0.2	<0.2
TRANS-1,2-DICHLOROETHENE	UG/L	<1.0	<1.0	<1.0
1,2-DICHLOROPROPANE	UG/L	<0.2	<0.2	<0.2
CIS-1,3-DICHLOROPROPENE	UG/L	<0.2	<0.2	<0.2
TRANS-1,3-DICHLOROPROPENE	UG/L	<0.2	<0.2	<0.2
METHYLENE CHLORIDE	UG/L	<2.0	<2.0	<2.0
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.2	<0.2	<0.2
TETRACHLOROETHENE	**UG/L**	<0.5	<0.5	**4.6**
1,1,1-TRICHLOROETHANE	UG/L	<1.0	<1.0	<1.0
1,1,2-TRICHLOROETHANE	UG/L	<0.2	<0.2	<0.2
TRICHLOROETHENE	UG/L	<0.3	<0.3	<0.3
TRICHLOROFLUOROMETHANE	UG/L	<0.2	<0.2	<0.2
VINYL CHLORIDE	UG/L	<0.5	<0.5	<0.5

SURROGATE:

BROMOCHLOROMETHANE (%)	102	91	97

AnalyticalTechnologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : PURGEABLE HALOCARBONS (EPA 8010)
CLIENT : PUBLIC SERVICE CO OF NM ATI I.D.: 511367
PROJECT # : REMEDIATION
PROJECT NAME : PERSON STATION

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
07	PSMW-16 INFLUENT	AQUEOUS	11/22/95	NA	12/05/95	1
08	EW-1 INFLUENT	AQUEOUS	11/22/95	NA	12/05/95	1
09	TRIP BLANK	AQUEOUS	11/20/95	NA	12/05/95	1

PARAMETER	UNITS	07	08	09
BROMODICHLOROMETHANE	UG/L	<0.2	<0.2	<0.2
BROMOFORM	**UG/L**	**0.6**	<0.5	<0.5
BROMOMETHANE	UG/L	<1.0	<1.0	<1.0
CARBON TETRACHLORIDE	UG/L	<0.2	<0.2	<0.2
CHLOROBENZENE	UG/L	<0.5	<0.5	<0.5
CHLOROETHANE	UG/L	<0.5	<0.5	<0.5
CHLOROFORM	**UG/L**	**1.0**	<0.5	<0.5
CHLOROMETHANE	UG/L	<1.0	<1.0	<1.0
DIBROMOCHLOROMETHANE	UG/L	<0.2	<0.2	<0.2
1,2-DIBROMOETHANE (EDB)	UG/L	<0.2	<0.2	<0.2
1,2-DICHLOROBENZENE	UG/L	<0.5	<0.5	<0.5
1,3-DICHLOROBENZENE	UG/L	<0.5	<0.5	<0.5
1,4-DICHLOROBENZENE	UG/L	<0.5	<0.5	<0.5
1,1-DICHLOROETHANE	**UG/L**	**0.3**	**0.8**	<0.3
1,2-DICHLOROETHANE (EDC)	UG/L	<0.5	<0.5	<0.5
1,1-DICHLOROETHENE	**UG/L**	**35 D(10)**	**9.5**	<0.2
CIS-1,2-DICHLOROETHENE	UG/L	<0.2	<0.2	<0.2
TRANS-1,2-DICHLOROETHENE	UG/L	<1.0	<1.0	<1.0
1,2-DICHLOROPROPANE	UG/L	<0.2	<0.2	<0.2
CIS-1,3-DICHLOROPROPENE	UG/L	<0.2	<0.2	<0.2
TRANS-1,3-DICHLOROPROPENE	UG/L	<0.2	<0.2	<0.2
METHYLENE CHLORIDE	UG/L	<2.0	<2.0	<2.0
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.2	<0.2	<0.2
TETRACHLOROETHENE	**UG/L**	**58 D(10)**	**38 D(10)**	<0.5
1,1,1-TRICHLOROETHANE	**UG/L**	**2.6**	**3.0**	<1.0
1,1,2-TRICHLOROETHANE	UG/L	<0.2	<0.2	<0.2
TRICHLOROETHENE	**UG/L**	<0.3	<0.3	**4.1**
TRICHLOROFLUOROMETHANE	UG/L	<0.2	<0.2	<0.2
VINYL CHLORIDE	UG/L	<0.5	<0.5	<0.5
SURROGATE:				
BROMOCHLOROMETHANE (%)		96	102	102

D(10)=DILUTED 10X, ANALYZED 12/05/95

AnalyticalTechnologies,Inc.

GAS CHROMATOGRAPHY RESULTS - QUALITY CONTROL

REAGENT BLANK

TEST	: EPA 8010	ATI I.D.	: 511367
BLANK I.D.	: 120495	MATRIX	: AQUEOUS
CLIENT	: PUBLIC SERVICE CO OF NM	DATE EXTRACTED	: NA
PROJECT #	: REMEDIATION	DATE ANALYZED	: 12/04/95
PROJECT NAME	: PERSON STATION	DIL. FACTOR	: 1

PARAMETER	UNITS	
BROMODICHLOROMETHANE	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
METHYLENE CHLORIDE	UG/L	<2.0
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.2
TETRACHLOROETHENE	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

SURROGATE:

BROMOCHLOROMETHANE (%)	111

AnalyticalTechnologies,Inc.

GAS CHROMATOGRAPHY - QUALITY CONTROL

MSMSD

TEST	: PURGEABLE HALOCARBONS (EPA 8010)		
MSMSD #	: 51136703	ATI I.D.	: 511367
CLIENT	: PUBLIC SERVICE CO OF NM	DATE EXTRACTED	: NA
PROJECT #	: REMEDIATION	DATE ANALYZED	: 12/05/95
PROJECT NAME	: PERSON STATION	SAMPLE MATRIX	: AQUEOUS
REF. I.D.	: 51136703	UNITS	: UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD
CHLOROBENZENE	<0.5	10.0	9.4	94	9.5	95	1
1,1-DICHLOROETHENE	<0.2	10.0	8.9	89	8.7	87	2
TRICHLOROETHENE	<0.3	10.0	10.3	103	9.6	96	7

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

AnalyticalTechnologies, Inc., Albuquerque, NM
San Diego • Phoenix • Seattle • Pensacola • Ft Collins • Portland • Albuquerque

CHAIN OF CUSTODY

DATE: 11 22 97 PAGE 1 OF 2

ATI LAB I.D. 511367

PLEASE FILL THIS FORM IN COMPLETELY. SHADED AREAS ARE FOR LAB USE ONLY.

PROJECT MANAGER: ~~RON JOHNSON~~ Steve Anderson

COMPANY: PUBLIC SERVICE COMPANY OF NEW MEXICO
ADDRESS: ALVARADO SQUARE - 0408
ALBUQUERQUE, NM 87158
PHONE: (505) ~~241-2998~~ 241-2057
FAX: (505) ~~241-2340~~ 241-4457

BILL TO: SAME
COMPANY:
ADDRESS: Steve Anderson
ATTN: ~~RON JOHNSON~~

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1)	(MOD 8015) Gas/Diesel	Diesel/Gasoline/BTXE/MTBE (MOD 8015/8020)	BTXE/MTBE (8020)			Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	SDWA Volatiles (502.1/503.1), 502.2 Reg. & Unreg.			Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	Polynuclear Aromatics (610/8310)			SDWA Primary Standards - Arizona	SDWA Secondary Standards - Arizona	SDWA Primary Standards - Federal	SDWA Secondary Standards - Federal			The 13 Priority Pollutant Metals	RCRA Metals by Total Digestion	RCRA Metals by TCLP (1311)		NUMBER OF CONTAINERS
GTS-INFLUENT	11-22-97	0911	W	-01							X																						3
~~GTS-AIR STRIPPER EFFLUENT EAST~~			~~W~~								~~X~~																						
GTS-AIR STRIPPER EFFLUENT WEST	11-22-97	0907	W	-02							X																						3
~~GTS GAC EFFLUENT EAST~~		~~0910~~	~~W~~								~~X~~																						
GTS GAC EFFLUENT WEST	11-22-97	0907	W	-03							X																						3
UNM EAST RESERVOIR	11-22-97	0951	W	-04							X																						3
UNM WEST RESERVOIR	11-22-97	0957	W	-05							X																						3
~~TRIP BLANK~~			W								X																						~~1~~

PROJECT INFORMATION		SAMPLE RECEIPT	
PROJ. NO.:	REMEDIATION	NO. CONTAINERS	15
PROJ. NAME:	PERSON STATION	CUSTODY SEALS	Y / N / NA
P.O. NO.:		RECEIVED INTACT	Y
SHIPPED VIA:		RECEIVED COLD	Y

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) ☐ 2 WEEK

Comments:

PLEASE PROVIDE DATA ON DISKETTE AS WELL AS HARD COPY

SAMPLED & RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [illegible] Time: 1047	Signature: Time:	Signature: Time:
Printed Name: C Hunter-[illegible] Date: 11 22 97	Printed Name: Date:	Printed Name: Date:
Company: PNM Phone: 241-4744	Company:	Company:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY:(LAB) 3.
Signature: Time:	Signature: Time:	Signature: [illegible] Time: 1050
Printed Name: Date:	Printed Name: Date:	Printed Name: Andrew Parker Date: 11/22
Company:	Company:	Analytical Technologies, Inc.

Analytical Technologies, Inc., Albuquerque, NM
San Diego • Phoenix • Seattle • Pensacola • Ft. Collins • Portland • Albuquerque

CHAIN OF CUSTODY

DATE: 11-22-97 PAGE 2 OF 2

ATI LAB I.D. 511367

PLEASE FILL THIS FORM IN COMPLETELY. SHADED AREAS ARE FOR LAB USE ONLY.

PROJECT MANAGER: ~~RON JOHNSON~~ Steve Anderson

COMPANY: PUBLIC SERVICE COMPANY OF NEW MEXICO
ADDRESS: ALVARADO SQUARE - ~~0408~~ EB16
ALBUQUERQUE, NM 87158
PHONE: (505) ~~241-2998~~ 241-7057
FAX: (505) ~~241-2340~~ 241-2497

BILL TO: SAME
COMPANY:
ADDRESS: Steve Anderson
ATTN: ~~RON JOHNSON~~

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1)	(MOD 8015) Gas/Diesel	Diesel/Gasoline/BTXE/MTBE (MOD 8015/8020)	BTXE/MTBE (8020)	Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	SDWA Volatiles (502.1/503.1), 502.2 Reg. & Unreg.	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Volatile Organics GC/MS (524/8240)	Polynuclear Aromatics (610/8310)	SDWA Primary Standards - Arizona	SDWA Secondary Standards - Arizona	SDWA Primary Standards - Federal	SDWA Secondary Standards - Federal	The 13 Priority Pollutant Metals	RCRA Metals by Total Digestion	RCRA Metals by TCLP (1311)
VEW INFLUENT	11-22-97	0913	W	-06					X														
PSMW-16 INFLUENT	11-22-97	0916	W	-07					X														
EW-1 INFLUENT	11-22-97	0915	W	-08					X														
~~PSMW-24,25,26 INFLUENT~~			~~W~~						~~X~~														
TRIP BLANK	11/20		W	-09					X														

PROJECT INFORMATION

PROJ. NO.: REMEDIATION
PROJ. NAME: PERSONIFICATION
P.O. NO.:
SHIPPER:

SAMPLE RECEIPT

NO. CONTAINERS	~~25~~ 10
CUSTODY SEALS	Y / N / NA
RECEIVED INTACT	Y
RECEIVED COLD	Y

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) ☐ 2 WEEK

Comments:

PLEASE PROVIDE DATA ON DISKETTE AS WELL AS HARD COPY

SAMPLED & RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [illegible] Time: 1000	Signature: Time:	Signature: Time:
Printed Name: Chandra Date: 11-22-97	Printed Name: Date:	Printed Name: Date:
Company: PNM Phone: 241-4747	Company:	Company:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY: (LAB) 3.
Signature: Time:	Signature: Time:	Signature: Andrew Parker Time: 1050
Printed Name: Date:	Printed Name: Date:	Printed Name: Andrew Parker Date: 11/22
Company:	Company:	Analytical Technologies, Inc.

Analytical **Technologies,** Inc.

2709-D Pan American Freeway, NE Albuquerque, NM 87107
Phone (505) 344-3777 FAX (505) 344-4413

ATI I.D. **512381**

December 28, 1995

Public Service Co of NM
Alvarado Square ER16
Albuquerque, NM 87158

Project Name/Number: PERSON STATION REMEDIATION

Attention: Steve Anderson

On **12/20/95**, Analytical Technologies, 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.

Mary F. Cappelli for K.M.

Kimberly D. McNeill
Project Manager

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager

MR:jt

Enclosure

AnalyticalTechnologies,Inc.

CLIENT	: PUBLIC SERVICE CO OF NM	DATE RECEIVED	: 12/20/95
PROJECT #	: REMEDIATION		
PROJECT NAME	: PERSON STATION	REPORT DATE	: 12/28/95

ATI ID: 512381

ATI #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	UNM EAST RESERVOIR	AQUEOUS	12/20/95
02	UNM WEST RESERVOIR	AQUEOUS	12/20/95
03	TRIP BLANK	AQUEOUS	12/20/95

---TOTALS---

MATRIX	#SAMPLES
AQUEOUS	3

ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.

AnalyticalTechnologies,Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : PURGEABLE HALOCARBONS (EPA 8010)
CLIENT : PUBLIC SERVICE CO OF NM ATI I.D.: 512381
PROJECT # : REMEDIATION
PROJECT NAME : PERSON STATION

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	UNM EAST RESERVOIR	AQUEOUS	12/20/95	NA	12/26/95	1
02	UNM WEST RESERVOIR	AQUEOUS	12/20/95	NA	12/26/95	1
03	TRIP BLANK	AQUEOUS	12/20/95	NA	12/26/95	1

PARAMETER	UNITS	01	02	03
BROMODICHLOROMETHANE	UG/L	<0.2	<0.2	<0.2
BROMOFORM	UG/L	<0.5	<0.5	<0.5
BROMOMETHANE	UG/L	<1.0	<1.0	<1.0
CARBON TETRACHLORIDE	UG/L	<0.2	<0.2	<0.2
CHLOROBENZENE	UG/L	<0.5	<0.5	<0.5
CHLOROETHANE	UG/L	<0.5	<0.5	<0.5
CHLOROFORM	UG/L	<0.5	<0.5	<0.5
CHLOROMETHANE	UG/L	<1.0	<1.0	<1.0
DIBROMOCHLOROMETHANE	UG/L	<0.2	<0.2	<0.2
1,2-DIBROMOETHANE (EDB)	UG/L	<0.2	<0.2	<0.2
1,2-DICHLOROBENZENE	UG/L	<0.5	<0.5	<0.5
1,3-DICHLOROBENZENE	UG/L	<0.5	<0.5	<0.5
1,4-DICHLOROBENZENE	UG/L	<0.5	<0.5	<0.5
1,1-DICHLOROETHANE	UG/L	<0.3	<0.3	<0.3
1,2-DICHLOROETHANE (EDC)	UG/L	<0.5	<0.5	<0.5
1,1-DICHLOROETHENE	UG/L	<0.2	<0.2	<0.2
CIS-1,2-DICHLOROETHENE	UG/L	<0.2	<0.2	<0.2
TRANS-1,2-DICHLOROETHENE	UG/L	<1.0	<1.0	<1.0
1,2-DICHLOROPROPANE	UG/L	<0.2	<0.2	<0.2
CIS-1,3-DICHLOROPROPENE	UG/L	<0.2	<0.2	<0.2
TRANS-1,3-DICHLOROPROPENE	UG/L	<0.2	<0.2	<0.2
METHYLENE CHLORIDE	UG/L	<2.0	<2.0	<2.0
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.2	<0.2	<0.2
TETRACHLOROETHENE	UG/L	<0.5	<0.5	<0.5
1,1,1-TRICHLOROETHANE	UG/L	<1.0	<1.0	<1.0
1,1,2-TRICHLOROETHANE	UG/L	<0.2	<0.2	<0.2
TRICHLOROETHENE	UG/L	<0.3	<0.3	<0.3
TRICHLOROFLUOROMETHANE	UG/L	<0.2	<0.2	<0.2
VINYL CHLORIDE	UG/L	<0.5	<0.5	<0.5
SURROGATE:				
BROMOCHLOROMETHANE (%)		91	96	99

AnalyticalTechnologies,Inc.

GAS CHROMATOGRAPHY RESULTS - QUALITY CONTROL

REAGENT BLANK

TEST	: EPA 8010	ATI I.D.	: 512381
BLANK I.D.	: 122695	MATRIX	: AQUEOUS
CLIENT	: PUBLIC SERVICE CO OF NM	DATE EXTRACTED	: NA
PROJECT #	: REMEDIATION	DATE ANALYZED	: 12/26/95
PROJECT NAME	: PERSON STATION	DIL. FACTOR	: 1

PARAMETER	UNITS	
BROMODICHLOROMETHANE	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
METHYLENE CHLORIDE	UG/L	<2.0
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.2
TETRACHLOROETHENE	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

SURROGATE:

BROMOCHLOROMETHANE (%)	93

AnalyticalTechnologies,Inc.

GAS CHROMATOGRAPHY - QUALITY CONTROL

MSMSD

TEST	: PURGEABLE HALOCARBONS (EPA 8010)		
MSMSD #	: 51238101	ATI I.D.	: 512381
CLIENT	: PUBLIC SERVICE CO OF NM	DATE EXTRACTED	: NA
PROJECT #	: REMEDIATION	DATE ANALYZED	: 12/26/95
PROJECT NAME	: PERSON STATION	SAMPLE MATRIX	: AQUEOUS
REF. I.D.	: 51238101	UNITS	: UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD
CHLOROBENZENE	<0.5	10.0	9.8	98	10.4	104	6
1,1-DICHLOROETHENE	<0.2	10.0	7.9	79	8.1	81	3
TRICHLOROETHENE	<0.3	10.0	11.3	113	11.3	113	0

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

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CHAIN OF CUSTODY

DATE: 12-20-95 PAGE 1 OF 1

ATI LAB I.D. 51238/

PLEASE FILL THIS FORM IN COMPLETELY. SHADED AREAS ARE FOR LAB USE ONLY.

PROJECT MANAGER: ~~RON JOHNSON~~

COMPANY: PUBLIC SERVICE COMPANY OF NEW MEXICO
ADDRESS: ALVARADO SQUARE - 0408
ALBUQUERQUE, NM 87158 MS ER16
PHONE: (505) 241-~~2888~~ 2576
FAX: (505) 241-~~2840~~ 2437

BILL TO: SAME
COMPANY:
ADDRESS:
ATTN: ~~RON JOHNSON~~ STEVE ANDERSON

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1)	(MOD 8015) Gas/Diesel	Diesel/Gasoline/BTXE/MTBE (MOD 8015/8020)	BTXE/MTBE (8020)			Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	SDWA Volatiles (502.1/503.1), 502.2 Reg. & Unreg.			Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	Polynuclear Aromatics (610/8310)			SDWA Primary Standards - Arizona	SDWA Secondary Standards - Arizona	SDWA Primary Standards - Federal	SDWA Secondary Standards - Federal			The 13 Priority Pollutant Metals	RCRA Metals by Total Digestion	RCRA Metals by TCLP (1311)		NUMBER OF CONTAINERS
~~GTS INFLUENT~~			~~W~~								~~X~~																						
~~GTS AIR STRIPPER EFFLUENT EAST~~			~~W~~								~~X~~																						
~~GTS AIR STRIPPER EFFLUENT WEST~~			~~W~~								~~X~~																						
~~GTS GAC EFFLUENT EAST~~			~~W~~								~~X~~																						
~~GTS GAC EFFLUENT WEST~~			~~W~~								~~X~~																						
UNM EAST RESERVOIR	12-20-95	0924	W	-01							X																						3
UNM WEST RESERVOIR	12-20-95	0931	W	-02							X																						3
TRIP BLANK	12-20-95	0825	W	-03							X																						1

PROJECT INFORMATION		SAMPLE RECEIPT	
PROJ. NO.:	REMEDIATION	NO. CONTAINERS	7
PROJ. NAME:	PERSON STATION	CUSTODY SEALS	Y / N / NA
P.O. NO.:		RECEIVED INTACT	Y
SHIPPED VIA:		RECEIVED COLD	Y

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) ☑ 2 WEEK

Comments:

PLEASE PROVIDE DATA ON DISKETTE AS WELL AS HARD COPY

SAMPLED & RELINQUISHED BY: 1.		RELINQUISHED BY: 2.		RELINQUISHED BY: 3.	
Signature: Chuck Oates	Time: 1003	Signature:	Time:	Signature:	Time:
Printed Name: Charles Oraker	Date: 12-20-95	Printed Name:	Date:	Printed Name:	Date:
Company: PNM	Phone: 241-4744	Company:		Company:	

RECEIVED BY: 1.		RECEIVED BY: 2.		RECEIVED BY: (LAB) 3.	
Signature:	Time:	Signature:	Time:	Signature: Andrew Parker	Time: 1005
Printed Name:	Date:	Printed Name:	Date:	Printed Name: Andrew Parker	Date: 12/20
Company:		Company:		Analytical Technologies, Inc.	