

Public Service Company
of New Mexico
2401 Aztec NE
MS Z160
Albuquerque, NM 87107

February 18, 2002

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Robert Warder, EI
New Mexico Environment Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505-6303

RE: *Treatment Effectiveness Report, Fourth Quarter 2001, Public Service Company of New Mexico Person Generating Station Groundwater Treatment System, NMT 360010342*

Dear Mr. Warder:

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

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 K. Ristau
Director, Environmental Services

If you have any questions, please contact me at (505) 855-6392.

Sincerely,



John Hale, P.E.
Technical Project Manager

Enclosures



RED PNMPO/02

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

Treatment Effectiveness Report
Fourth Quarter 2001

February 15, 2002

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

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Executive Summary

Contour maps of the three primary contaminants of concern, PCE, DCE, and TCA, are shown in Figures 10, 11, and 12, respectively. These contour maps indicate the areal extent of the groundwater plume and the associated contaminant concentrations within the plume. The contour maps are prepared twice per year using data from the spring and fall sampling events.

Figure 10 indicates that the low PCE concentration zone (5 ppb to 20 ppb) and the moderate PCE concentration zone (20 ppb to 100 ppb) have remained approximately the same in size since April 2001. Figure 11 indicates that the low and moderate DCE concentration zones have changed shape slightly since last April. Figure 12 indicates that the low concentration TCA plume has decreased slightly in size.

Due to the locally declining groundwater table, PSMW-16 had become hydrologically stranded and has been out of service during the past several quarters. PSMW-24 has been out of service during the past several months due to a damaged pump. *Replaced 9/01* *1851* *Replaced 9/01*

During May and June 2001, construction activities were initiated for the drilling of two new extraction wells to replace PSMW-16 and PSMW-24. The two new extraction wells were brought online in September 2001.

In July 2001, construction activities began on the installation of a pilot-scale treatment system that uses two in-series granular activated carbon canisters as an alternative to the existing air stripper/acid injection system. *1851*

Over the past several quarters, the air stripper/acid injection system has experienced frequent operational problems and has required extensive maintenance in order to remain in service. The pilot-scale system configuration is a much simpler system. Consequently, if it is able to meet the required treatment effectiveness, it should significantly reduce operational problems and maintenance requirements of the GTS.

The pilot-scale system has operated consistently throughout the fourth quarter. Analytical results indicate that the pilot-scale system is achieving the necessary treatment effectiveness.

I. Introduction

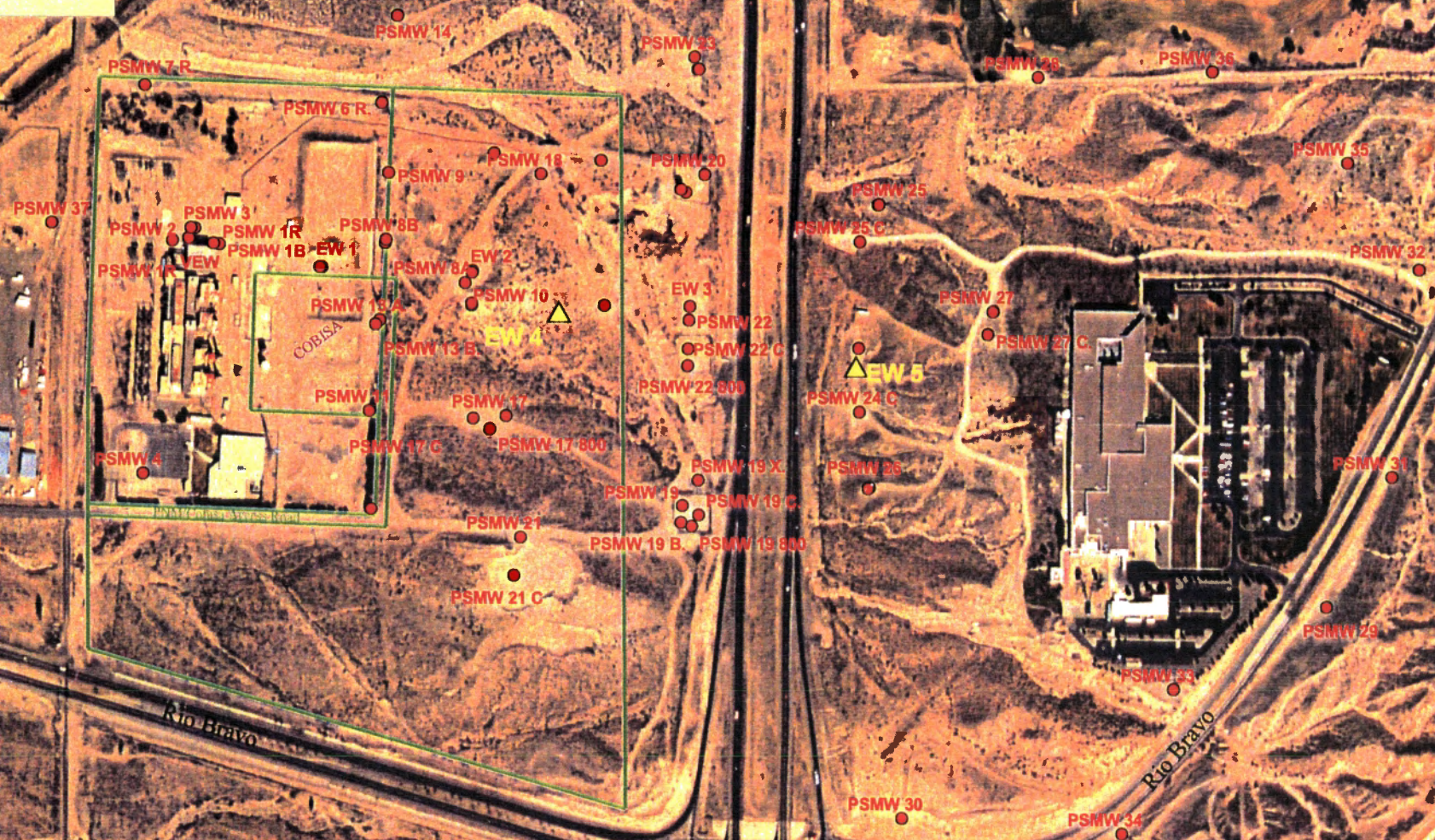
This report is prepared pursuant to requirements contained in the Person Generating Station Corrective Action Directive (NMT360010342) issued by the New Mexico Environment Department (NMED) Hazardous and Radioactive Materials Bureau, and requirements contained in Discharge Plan DP-1006 issued by the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

This report contains information on sampling results and operational activities at the Person Generating Station Groundwater Treatment System (GTS). The GTS is designed to extract volatile organic compound (VOC) contaminated groundwater, treat through an air stripper and granular activated carbon (GAC) 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 monitor well and extraction well locations.



Person Station Monitor and Extraction Wells



Legend

- New Extraction Wells
- Person Station Extraction Wells and Monitoring Wells
- Person Property Boundary

II. Operational History

The GTS was started on Friday, January 27, 1995, with treated effluent being sent to the UNM Championship Golf Course.

During 1995, the GTS encountered periodic minor problems as well as a more serious problem with mineralization of the system components downstream from the air stripper. The GTS was kept off-line for most of the first quarter of 1996 while the mineralization problem was studied. After evaluation of various treatment methods, an acid treatment system was selected as the most feasible solution to the mineralization problem.

Installation of the acid treatment system began in early May 1996. In early April 1996, construction activities were initiated to convert monitor wells PSMW-24, PSMW-25, and PSMW-26 (PSMW-24, 25, and 26) to extraction wells. The GTS resumed regular operation in mid-June 1996.

The Person Generating Station Discharge Plan, DP-1006, was amended and approved by the Groundwater Protection and Remediation Bureau in mid-June 1997. As part of the amended plan, the existing plan requirement for the sulfuric acid treatment system was replaced. Previously, acid addition to the effluent was restricted to 35 mg/l. The new requirement specifies adjustment of the acid treatment system to maintain an effluent pH range of 6.0 to 9.0. A pH probe and chart recorder were installed on the effluent discharge tank for daily monitoring of pH. Effluent samples are collected monthly for total sulfate analysis.

In an effort to enhance the GTS effectiveness by increasing system pumping rates, two new extraction wells were completed during October 1999. The new wells are designated EW-2 and EW-3.

Due to the locally declining groundwater table, extraction well PSMW-16 had become hydrologically stranded, and has been out of service for the past several quarters. Extraction well PSMW-24 has been out of service for the past few quarters due to a damaged pump. An inspection of PSMW-24 indicated that the borehole casing had developed a hole, allowing material from the surrounding formation to move into the borehole permanently damaging the pump.

During May and June 2001, construction activities were initiated for the drilling of two new extraction wells to replace PSMW-16 and PSMW-24. The new extraction wells are designated EW-4 and EW-5. EW-4 is located approximately 25 feet northwest of PSMW-16. EW-5 is located approximately 25 feet south of PSMW-24. EW-4 and EW-5 were brought on line in September 2001.

Prior to drilling the replacement extraction wells, PSMW-16 and PSMW-24 were plugged and abandoned in accordance with the appropriate regulations.

In July 2001, construction activities began on the installation of a pilot-scale treatment system that uses two in-series GAC units as an alternative to the existing air stripper/acid injection system. The third quarter report erroneously described the pilot-scale system as

using air sparging in addition to carbon adsorption. This was incorrect, there is no air sparging system currently installed.

Over the past several quarters, the air stripper/acid injection system has experienced frequent operational problems and has required extensive maintenance in order to remain in service. The pilot-scale system configuration is a much simpler system. Consequently, if it is able to meet the required treatment effectiveness, it should significantly reduce operational problems and maintenance requirements of the GTS.

The pilot-scale system consists of two-stage, in-series GAC units. The influent is pumped into a large holding tank, then to the first stage GAC unit, and then to the final GAC unit. As in the original system configuration, the treated effluent is then pumped to the golf course irrigation ponds for reuse.

The pilot-scale treatment system was put into limited service in September 2001, and will remain in operation for several months so that the treatment effectiveness of the new system can be thoroughly evaluated. Effluent samples will continue to be collected monthly from various points in the pilot-scale treatment train. If laboratory analytical results indicate that the required treatment effectiveness can be achieved, the GTS will be permanently modified. This will involve removal of the two air strippers and acid injection system.

In order to install the pilot-scale system, the east treatment train was partially dismantled and is no longer operational. The west treatment train will remain off line for the duration of the pilot-scale treatment system evaluation.

III. Groundwater Treatment Effectiveness

Figures 2, 3, and 4 show graphs of concentration of total chlorinated VOCs as measured at wells PSMW-16, VEW, and EW-1 over the operational period of the GTS. Figure 5 shows a graph of concentration of total chlorinated VOCs in the combined influent from wells PSMW-24, 25, and 26 over the operational period of these wells. Figures 6 and 7 show graphs of concentration of total chlorinated VOCs over the operational period of EW-3 and EW-2. More detailed data for these wells are shown in Tables 1, 2, 3, 4, 5, and 6.

As previously noted, PSMW-16 and PSMW-24 have been out of service for the past few quarters. The two extraction wells were permanently plugged and abandoned in the second quarter of 2001. Two new replacement extraction wells were drilled in May and June 2001, and are designated EW-4 and EW-5. EW-4 and EW-5 will replace PSMW-16 and PSMW-24, respectively.

At the beginning of the fourth quarter, total chlorinated VOCs increased slightly in the VEW, EW-1, EW-2, and EW-3, and then decreased during the remainder of the quarter.

The effluent from EW-5, the replacement extraction well for PSMW-24, is included in the combined influent from PSMW-24, 25, and 26. Figure 5 indicates an increase in total chlorinated VOCs as a result of EW-5 being in service.

EW-4, the replacement for PSMW-16 was not sampled in October 2001. However, during the remainder of the quarter, total chlorinated VOCs remained relatively constant. Analytical data is shown in Table 7.

Laboratory reports for this quarter are contained in Appendix A.

Figure 2
Total VOCs at PSMW-16

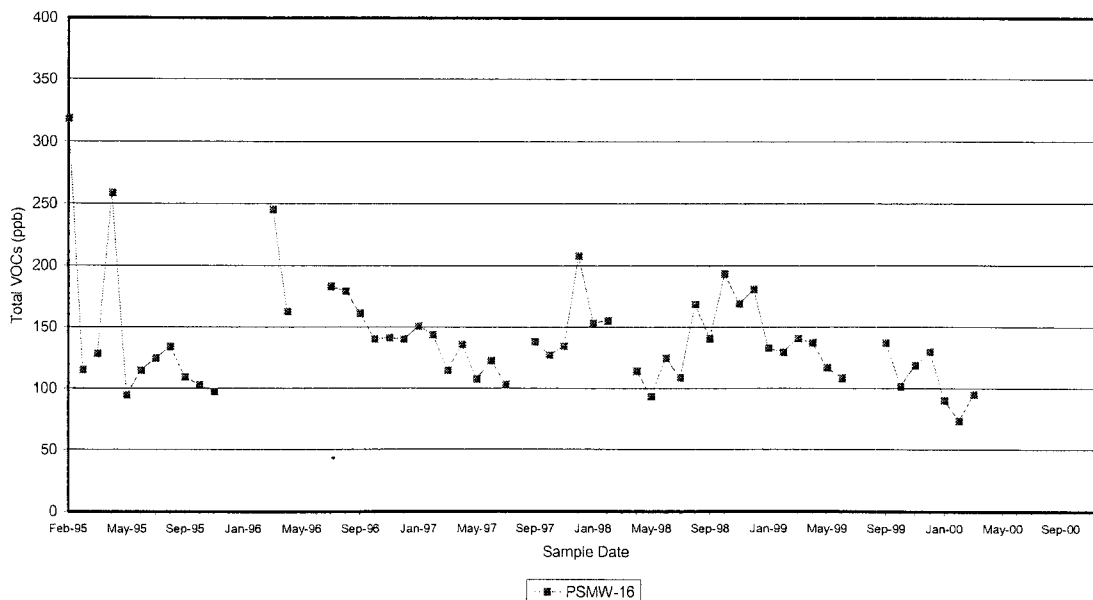


Figure 3
Total VOCs at VEW

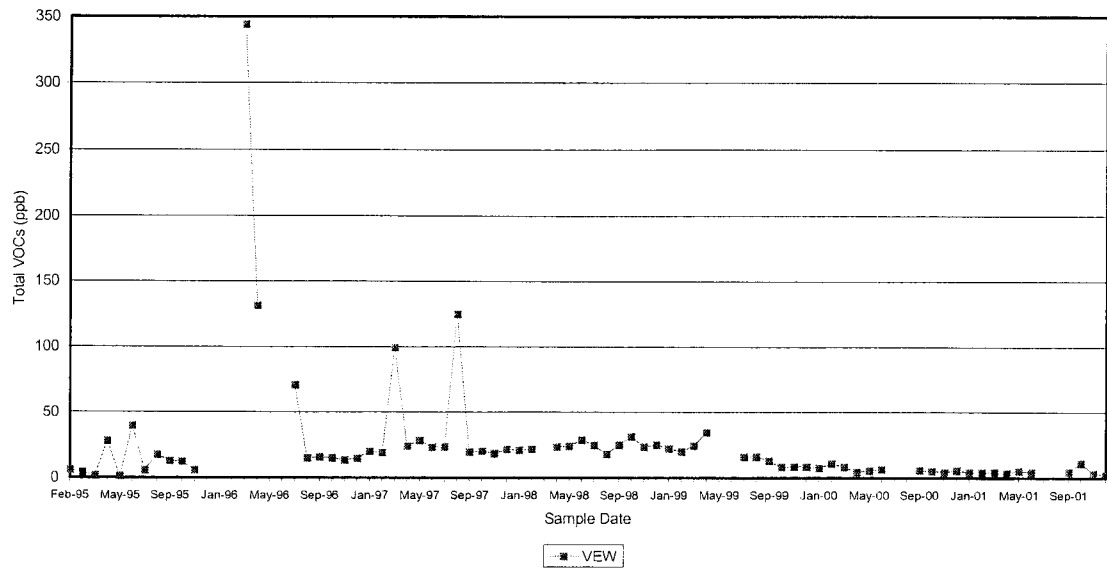


Figure 4
Total VOCs at EW-1

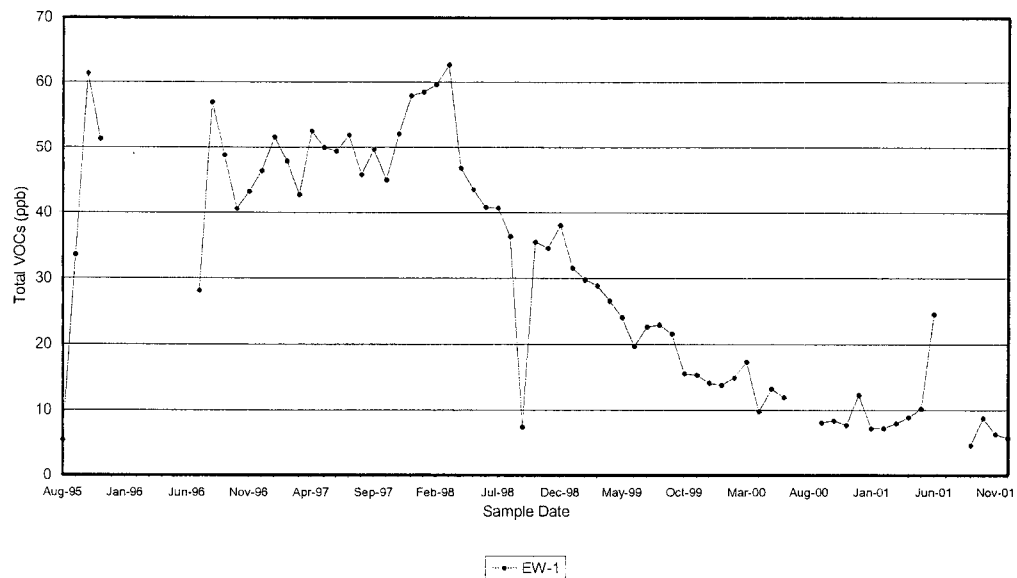


Figure 5
Total VOCs at PSMW-24,25,26

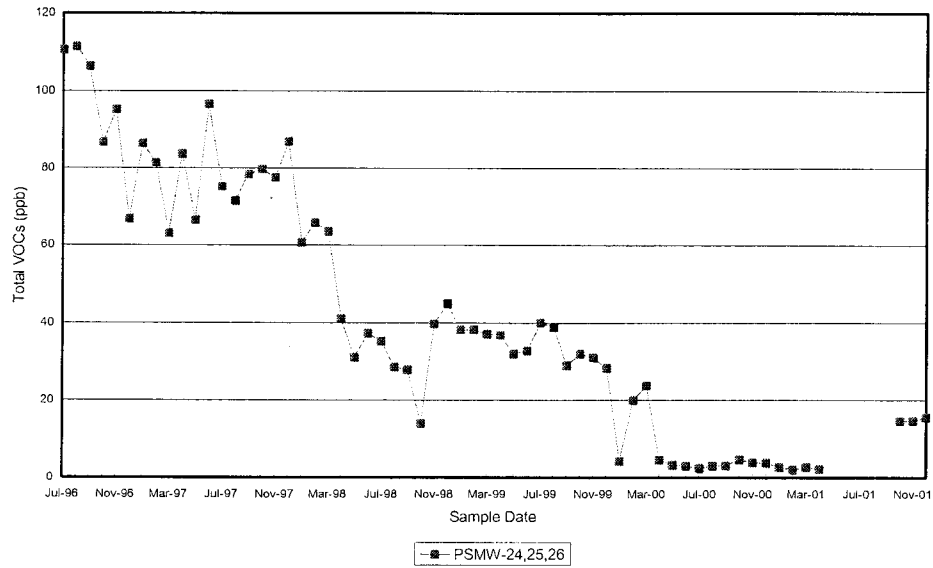


Figure 6
Total VOCs at EW-3

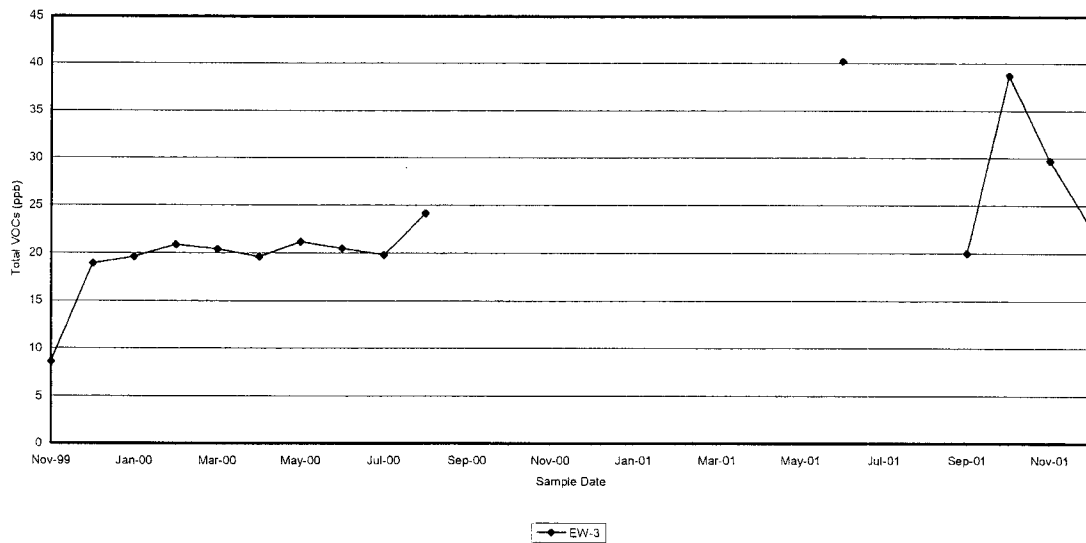


Figure 7
Total VOCs at EW-2

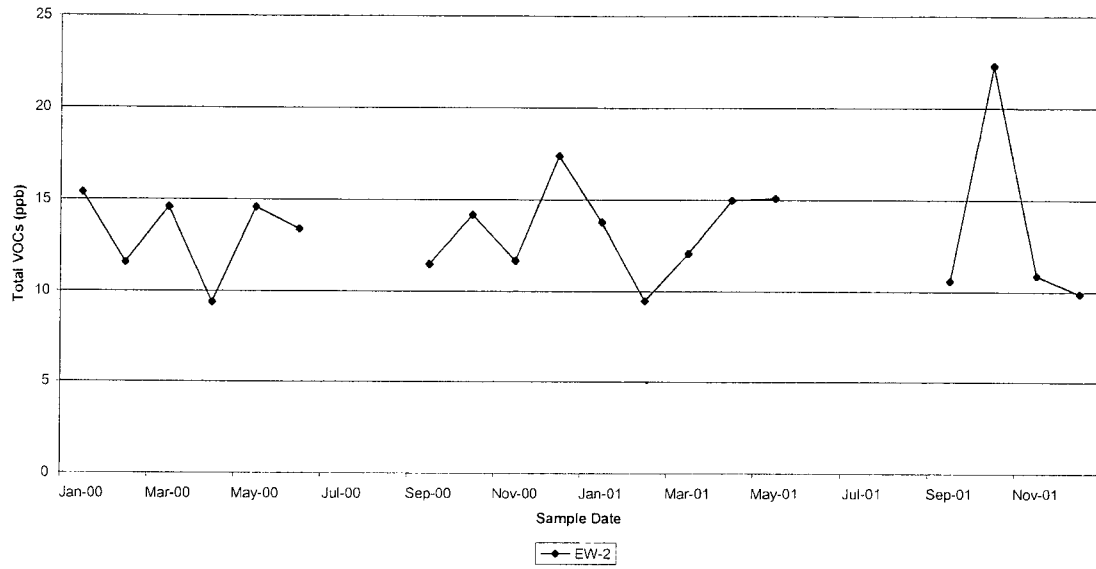


Table 1
Influent Concentrations at PSMW-16

Date	Laboratory Report No.	PCE (ppb)	DCE (ppb)	Total VOCs (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
3/20/96	603347	180	63	245.3
4/17/96	604367	110	46	162.5
7/18/96	607334	120	54	182.9
8/15/96	608331	120	51	179.1
9/18/96	609338	110	43	160.9
10/16/96	610361	97	37	140.0
11/19/96	611331	94	42	141.0
12/17/96	612331	96	39	140.0
1/16/97	701336	99	46	150.7
2/13/97	702332	100	40	143.7
3/19/97	703344	88	23	114.6
4/17/97	704355	93	38	135.8
5/15/97	705347	71	32	107.6
6/18/97	706353	83	36	122.6
7/23/97	707360	67	34	103.1
9/15/97	709332	100	34	137.9
10/15/97	710358	92	31	127.2
11/19/97	711335	95	34	134.5
12/16/97	712318	140	68	208
1/15/98	801334	110	37	153.1
2/11/98	802336	110	38	155.3
NS	-	-	-	-
4/8/98	804337	78	30	114.4
5/20/98	805379	67	23	93.4
6/16/98	806353	89	30	124.6
7/1/98	807300	76	29	108.8
8/13/98	808040	120	41	168.5
9/16/98	809042	110	26	140.7
10/7/98	810021	120	68	193.4
11/17/98	811049	100	64	169
12/9/98	812045	110	66	180.7
1/7/99	901010	100	28	132.8
2/4/99	902014	100	26	129.3
3/3/99	903010	100	36	140.5
4/21/99	904091	100	32	137.0
5/14/99	905048	87	25	116.7
6/9/99	906040	79	25	108.3
NS	-	-	-	-
NS	-	-	-	-
9/2/99	909005	99	32	136.8
10/11/99	910036	75	23	102
11/10/99	911035	80	33	118.6
12/8/99	912027	87	36	129.5
1/12/00	001021	64	20	90.5
2/10/00	002042	54	13	73.6
3/7/00	003023	62	26	95.1
NS	-	-	-	-
NS	-	-	-	-
NS	-	-	-	-

NS: Not Sampled

Table 2
Influent Concentrations at VEW

Date	Laboratory Report No.	PCE (ppb)	DCE (ppb)	Total VOCs (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
3/20/96	603347	270	72	344.3
4/17/96	604367	94	24	131.2
7/18/96	607334	47	14	70.6
8/15/96	608331	5.0	2.1	15.2
9/18/96	609338	3.1	2.1	15.8
10/16/96	610361	3.2	2.1	15.3
11/19/96	611331	0.8	1.8	13.6
12/17/96	612331	<0.5	2.0	15.0
1/16/97	701336	0.9	3.2	20.2
2/13/97	702332	1.0	2.4	19.2
3/19/97	703344	68	17	99.5
4/17/97	704355	2.8	3.4	24.4
5/15/97	705347	6.1	5.3	28.5
6/18/97	706353	3.8	4.2	23.5
7/23/97	707360	2.9	4.0	23.6
8/13/97	708339	57	50	124.8
9/15/97	709332	1.7	3.4	19.8
10/15/97	710358	3.2	3.1	20.5
11/19/97	711335	1.3	3.2	18.7
12/16/97	712318	1	4.8	21.7
1/15/98	801334	2.5	3.6	21.3
2/11/98	802336	2.9	3.7	22
4/8/98	804337	6.4	5.0	23.7
5/20/98	805379	8.4	5.4	24.3
6/16/98	806353	11	6.2	29.1
7/1/98	807300	7.6	4.6	25.0
8/13/98	808040	5.6	3.8	18.2
9/16/98	809042	8.9	5.6	25.3
10/7/98	810021	10	9.4	31.7
11/17/98	811049	6.9	5.2	23.7
12/9/98	812045	7.9	5.6	25.4
1/7/99	901010	7.7	4.3	22.5
2/4/99	902014	7.0	4.0	20.0
3/3/99	903010	7.9	6.2	24.7
4/21/99	904091	17.0	8.9	34.8
7/6/99	907015	5.5	3.0	16.3
8/5/99	908021	5.4	3.2	16.3
9/2/99	909005	2.5	2.6	13.0
10/11/99	910036	0.7	0.9	8.3
11/10/99	911035	< 0.5	1	8.7
12/8/99	912027	0.8	1.1	8.8
1/12/00	001021	0.9	1.1	7.6
2/10/00	002042	3.7	1.3	11.1
3/7/00	003023	1.1	1.3	8.3
4/12/00	004041	1.2	1.2	4.5
5/3/00	005014	< 0.5	0.9	5.6
6/8/00	006035	< 0.5	0.8	6.7
9/19/00	009101	0.7	< 0.5	6.0
10/4/00	010016	< 0.5	1.5	5.2
11/3/00	011012	< 0.5	0.5	4.4
12/5/00	012017	< 0.5	0.5	5.9
1/17/01	101052	< 0.5	0.5	4.2
2/15/01	102052	< 0.5	0.6	4.2
3/1/01	103007	< 0.5	0.4	4.5
4/5/01	104018	< 0.5	0.3	4.1
5/1/01	105004	< 0.5	0.4	5.3
6/1/01	106007	< 0.5	0.2	4.4
9/18/01	109064	< 0.5	NS	4.6
10/4/01	110023	< 0.5	0.3	11.5
11/5/01	111024	0.5	0.3	3.6
12/12/01	112047	< 0.5	0.2	2.5

NS: Not Sampled

Table 3
Influent Concentrations at EW-1

Date	Laboratory Report No.	PCE (ppb)	DCE(ppb)	Total VOCs (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
7/18/96	607334	20	5.7	28.2
8/15/96	608331	45	8.4	57.0
9/18/96	609338	37	7.8	48.8
10/16/96	610361	29	7.3	40.6
11/19/96	611331	32	7.0	43.2
12/17/96	612331	33	7.7	46.4
1/16/97	701336	36	9.2	51.6
2/13/97	702332	32	7.7	47.9
3/19/97	703344	29	5.7	42.7
4/17/97	704355	31	8.4	52.5
5/15/97	705347	27	9.7	50
6/18/97	706353	23	8.6	49.4
7/23/97	707360	25	9.5	51.9
8/13/97	708339	20	6.8	45.8
9/15/97	709332	21	8.5	49.7
10/15/97	710358	18	6.5	45
11/19/97	711335	20	9.7	52.1
12/16/97	712318	21	12	58
1/15/98	801334	20	11	58.5
2/11/98	802336	21	11	59.7
3/11/98	803324	20	16	62.7
4/8/98	804337	16	9.7	46.8
5/20/98	805379	16	9	43.5
6/16/98	806353	13	7.9	40.8
7/1/98	807300	12	7.7	40.7
8/13/98	808040	8.5	7	36.4
9/16/98	809042	3.2	2.7	7.4
10/7/98	810021	9.5	7.7	35.5
11/17/98	811049	10	7.5	34.6
12/9/98	812045	12	8.4	38.1
1/7/99	901010	10	5.8	31.6
2/4/99	902014	10	5.7	29.8
3/3/99	903010	8.2	6.9	28.9
4/21/99	904091	8.3	5.5	26.6
5/14/99	905048	7.1	4.6	24.1
6/9/99	906040	5.5	3.5	19.7
7/6/99	907015	6.1	4.1	22.7
8/5/99	908021	6.2	4.3	23.0
9/2/99	909005	5.5	4.6	21.6
10/11/99	910036	5	2.3	15.5
11/10/99	911035	4	2.4	15.3
12/8/99	912027	3.7	2.5	14.1
1/12/00	001021	4.7	2.5	13.8
2/10/00	002042	4.3	3.2	14.9
3/7/00	003023	5.2	3.2	17.3
4/12/00	004041	3.7	2.6	9.8
5/3/00	005014	4	2.6	13.2
6/8/00	006035	3.3	2.3	11.9
9/19/00	009101	1.7	0.6	8.1
10/4/00	010016	1.1	1.5	8.4
11/3/00	011012	0.9	0.9	7.7
12/5/00	012017	2.6	1.6	12.3
1/17/01	101052	2.7	1.3	7.2
2/15/01	102052	2.4	1.3	7.2
3/1/01	103007	2.8	1.4	8.0
4/5/01	104018	3.3	1.6	8.9
5/1/01	105004	3.5	1.6	10.2
6/1/01	106007	17	3.7	24.6
9/18/01	109064	2.3	NS	6.9
10/4/01	110023	1.8	0.9	8.8
11/5/01	111024	1.8	0.9	6.3
12/12/01	112047	2.5	0.8	5.7

NS: Not Sampled

Table 4
Combined Influent Concentrations at PSMW-24, 25, and 26

Date	Laboratory Report No.	PCE (ppb)	DCE (ppb)	Total VOCs (ppb)
7/18/96	607334	49	55	110.6
8/15/96	608331	47	50	111.3
9/18/96	609338	58	44	106.3
10/16/96	610361	41	40	86.8
11/19/96	611331	46	44	95.2
12/17/96	612331	33	30	66.7
1/16/97	701336	41	41	86.5
2/13/97	702332	41	37	81.5
3/19/97	703344	37	23	63.0
4/17/97	704355	42	37	83.8
5/15/97	705347	33	30	66.4
6/18/97	706353	39	55	96.6
7/23/97	707360	37	36	75.2
8/13/97	708339	39	30	71.5
9/15/97	709332	42	34	78.4
10/15/97	710358	48	29	79.8
11/19/97	711335	41	34	77.5
12/16/97	712318	40	47	87
1/15/98	801334	33	25	60.6
2/11/98	802336	36	27	65.7
3/11/98	803324	30	31	63.4
4/8/98	804337	21	18	41
5/20/98	805379	18	12	31.1
6/16/98	806353	21	15	37.3
7/1/98	807300	18	16	35.2
8/13/98	808040	14	13	28.6
9/16/98	809042	6.5	4.4	27.9
10/7/98	810021	5	7.3	13.9
11/17/98	811049	22	17	39.7
12/9/98	812045	25	19	45
1/7/99	901010	22	15	38.2
2/4/99	902014	23	14	38.2
3/3/99	903010	20	16	37.1
4/21/99	904091	20	15	36.8
5/14/99	905048	18	14	32
6/9/99	906040	18	14	32.8
7/6/99	907015	22	18	40
8/5/99	908021	22	17	39
9/2/99	909005	17	12	29
10/11/99	910036	19	13	32
11/10/99	911035	18	13	31
12/8/99	912027	16	12	28.3
1/12/00	001021	2.7	1.5	4.2
2/10/00	002042	10	0.2	20
3/7/00	003023	13	10	23.7
4/12/00	004041	2.5	2	4.5
5/3/00	005014	1.9	1.3	3.2
6/8/00	006035	1.8	1.2	3
7/24/00	007056	1.6	0.8	2.4
8/16/00	008062	2.1	0.9	3
9/19/00	009101	2.4	0.7	3.1
10/4/00	010016	2.5	2.1	4.6
11/3/00	011012	1.7	1.3	3.9
12/5/00	012017	1.3	1.0	3.8
1/17/01	101052	1.2	1.0	2.7
2/15/01	102052	1.1	1.0	2.1
3/1/01	103007	1.2	1.0	2.7
4/5/01	104018	1.3	0.9	2.2
NS	-	-	-	-
10/4/01	110023	8	< 0.2	14.5
11/5/01	111024	8.8	5.8	14.6
12/12/01	112047	9	6.6	15.6

NS: Not Sampled

Table 5
Influent Concentrations at EW-2

Date	Laboratory Report No.	PCE (ppb)	DCE (ppb)	Total VOCs (ppb)
1/12/00	001021	2.7	4.3	15.4
2/10/00	002042	1.5	2.7	11.6
3/7/00	003023	2.7	4.3	14.6
4/12/00	004041	0.9	4.2	9.4
5/3/00	005014	1.9	4.4	14.6
6/8/00	006035	1	3.9	13.4
NS	-	-	-	-
NS	-	-	-	-
9/19/00	009101	0.9	2.2	11.5
10/4/00	010016	1.9	4.1	14.2
11/3/00	011012	1.1	3	11.7
12/5/00	012017	3.5	2.9	17.4
1/17/01	101052	3.5	3.4	13.8
2/15/01	102052	0.9	2.2	9.5
3/1/01	103007	2.1	2.9	12.1
4/5/01	104018	4.5	3.6	15
5/1/01	105004	4.4	3.3	15.1
NS	-	-	-	-
9/18/01	109064	2.7	NS	10.6
10/4/01	110023	2.1	2.1	22.3
11/5/01	111024	3	2.9	10.9
12/12/01	112047	3.7	2.2	9.9

NS: Not Sampled

Table 6
Influent Concentrations at EW-3

Date	Laboratory Report No.	PCE (ppb)	DCE (ppb)	Total VOCs (ppb)
11/10/99	911035	5.1	2.9	8.6
12/8/99	912027	12	6.3	18.9
1/12/00	001021	13	5.7	19.6
2/10/00	002042	12	7.7	20.9
3/7/00	003023	12	7.3	20.4
4/12/00	004041	11	8	19.6
5/3/00	005014	12	8	21.2
6/8/00	006035	11	7.9	20.5
7/24/00	007056	12	6.3	19.8
8/16/00	008062	13	9.1	24.2
NS	-	-	-	-
NS	-	-	-	-
NS	-	-	-	-
NS	-	-	-	-
NS	-	-	-	-
NS	-	-	-	-
NS	-	-	-	-
NS	-	-	-	-
NS	-	-	-	-
6/1/01	106007	25	11	40.7
9/18/01	109064	14	NS	20
10/4/01	110023	15	8.5	38.7
11/5/01	111024	16	9.1	29.7
12/12/01	112047	13	7.2	22.7

NS: Not Sampled

Table 7
Influent Concentrations at EW-4

Date	Laboratory Report No.	PCE (ppb)	DCE (ppb)	Total VOCs (ppb)
11/5/01	111024	15	10	30.6
12/12/01	112047	11	6.2	20.4

IV. Operational Activities

During May and June 2001, construction activities were initiated for the drilling of two new extraction wells to replace PSMW-16 and PSMW-24. The new extraction wells are designated EW-4 and EW-5. EW-4 is located approximately 25 feet northwest of PSMW-16. EW-5 is located approximately 25 feet south of PSMW-24. EW-4 and EW-5 were brought on line in September 2001.

Prior to drilling the replacement extraction wells, PSMW-16 and PSMW-24 were plugged and abandoned in accordance with the appropriate regulations.

In July 2001, construction activities began on the installation of a pilot-scale treatment system that uses in-series GAC units as an alternative to the existing air stripper/acid injection system.

The pilot-scale treatment system was put into limited service in September 2001, and will remain in operation for several months so that the treatment effectiveness of the new system can be thoroughly evaluated. Effluent samples will continue to be collected monthly from various points in the pilot-scale treatment train. If laboratory analytical results indicate that the required treatment effectiveness can be achieved, the GTS will be permanently modified. This will involve removal of the two air strippers and acid injection system.

In order to install the pilot-scale system, the east treatment train was partially dismantled and is no longer operational. The west treatment train will remain off line for the duration of the pilot-scale treatment system evaluation.

The pilot-scale system operated consistently throughout the fourth quarter.

V. Influent and Effluent Flow Volumes

Flow totalizing meters are present on each influent well line and on the effluent flow line. Table 8 below details flow volumes from each influent well and the effluent line.

Differences between total influent and total effluent volumes 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.

During October 2001, the existing Hayes flow meter on the EW-4 influent line was replaced with a new Sea Metrics flow meter. The Sea Metrics flow meter was put in to service with an initial reading of 0 gallons.

The Fisher Porter flow meter on the golf course effluent line is limited to recording a maximum of 9,999,999 gallons. During October 2001, the meter exceeded this maximum reading and automatically restarted recording at 0 gallons. In the October entry, 10,000,000 gallons was added to the ending actual meter reading to indicate the cumulative volume meter reading for that month. The November Start Reading entry indicates the actual meter reading.

Table 8
Influent and Effluent Flow Volumes

Source	Meter Number	Start Reading	End Reading	Volume (Gallons)
Flow Volumes for October 2001:				
Influent (VEW)	Badger Meter No. 94976130	6,905,934	7,036,326	130,392
Influent (EW-4)	Hayes Meter No. 29408700	7,246,817	7,264,800	17,983
Influent (EW-4)	Sea Metrics Meter No. 09010066	0	334,027	334,027
Influent (EW-1)	Hayes Meter No. 29408732	8,252,897	8,337,828	84,931
Influent (EW-2)	Badger Meter No. 15796506	3,398,366	3,564,364	165,998
Influent (EW-3)	Badger Meter No. 15796517	4,091,223	4,582,233	491,010
Influent (EW-5)	Fisher Porter Meter No. 960307112	40,080	238,380	198,300
Influent (PSMW-25)	Fisher Porter Meter No. 960307112	5,080	29,740	24,660
Influent (PSMW-26)	Fisher Porter Meter No. 960307112	3,480	20,320	16,840
Monitor Well Sample Purge				475
Effluent (to Golf Course)	Fisher Porter Meter No. 960307112	8,644,853	10,120,921	1,476,068
Flow Volumes November 2001:				
Influent (VEW)	Badger Meter No. 94976130	7,036,326	7,233,992	197,666
Influent (EW-4)	Sea Metrics Meter No. 09010066	334,027	1,070,773	736,746
Influent (EW-1)	Hayes Meter No. 29408732	8,337,828	8,466,072	128,244
Influent (EW-2)	Badger Meter No. 15796506	3,564,364	3,817,011	252,647
Influent (EW-3)	Badger Meter No. 15796517	4,582,233	5,312,856	730,623
Influent (EW-5)	Fisher Porter Meter No. 960307112	238,380	513,510	275,130
Influent (PSMW-25)	Fisher Porter Meter No. 960307112	29,740	62,420	32,680
Influent (PSMW-26)	Fisher Porter Meter No. 960307112	20,320	42,730	22,410
Monitor Well Sample Purge				30
Effluent (to Golf Course)	Fisher Porter Meter No. 960307112	120,921	2,497,747	2,376,826
Flow Volumes for December 2001:				
Influent (VEW)	Badger Meter No. 94976130	7,233,992	7,442,576	208,584
Influent (EW-4)	Hayes Meter No. 29408700	1,070,773	1,845,771	774,998
Influent (EW-1)	Hayes Meter No. 29408732	8,466,072	8,518,754	52,682
Influent (EW-2)	Badger Meter No. 15796506	3,817,011	4,079,101	262,090
Influent (EW-3)	Badger Meter No. 15796517	5,312,856	6,074,861	762,005
Influent (EW-5)	Fisher Porter Meter No. 960307112	513,510	835,280	321,770
Influent (PSMW-25)	Fisher Porter Meter No. 960307112	62,420	101,070	38,650
Influent (PSMW-26)	Fisher Porter Meter No. 960307112	42,730	68,430	25,700
Monitor Well Sample Purge				
Effluent (to Golf Course)	Fisher Porter Meter No. 960307112	2,497,747	4,949,999	2,452,252
Quarterly Total for Influent (VEW+EW-4+EW-1+EW-2+EW-3+EW-5+PSMW-25+PSMW-26+Monitor Well Sample Purge)				6,287,271
Quarterly Total for Effluent:				6,305,146
Annual Totals				
Annual Cumulative Influent Total for 2001:				12,150,147
Annual Cumulative Effluent Total for 2001:				12,104,442

VI. Laboratory Analysis

A. Influent and Effluent Sampling for Chlorinated VOCs (8021 Analysis)

Installation of the pilot-scale treatment system required modifications to the existing treatment system configuration. In addition to the extraction wells, GTS influent, surge tank discharge, and UNM reservoirs, samples are now collected from the two first stage GAC units and the final GAC unit. This sampling scheme may change as modifications are made to the pilot-scale treatment system.

Chlorinated VOC analysis of the effluent from the GAC units is shown in Table 9 below. The methylene chloride detection in the October 2001 final stage GAC effluent may be attributable to a laboratory error since this compound was not detected in either of the first stage GAC units.

For review of the GTS past performance, chlorinated VOC analysis of GTS influent and effluent (after GAC units) is shown graphically in Figures 8 and 9.

Influent and effluent sampling results indicate that the GTS has consistently removed chlorinated VOC contaminants in the 20 to 200 ppb range to levels below laboratory detection limits in the effluent sent to the golf course.

Laboratory analytical data reports are contained in Appendix A.

Table 9
Influent and Effluent VOC Concentrations

Sampling Date: 10/4/01				
VOC Compound	Influent (ppb)	Effluent After West First Stage GAC Unit (ppb)	Effluent After East First Stage GAC Unit (ppb)	Effluent After Final Stage GAC Unit (ppb)
1,1-Dichloroethane	2.3	1.4	< 0.3	< 0.3
1,1-Dichloroethene	4.1	1.9	< 0.4	< 0.4
Tetrachloroethene	7.1	1.8	< 0.2	< 0.2
Methylene Chloride	< 2.0	< 2.0	< 2.0	2.6
TOTAL VOC'S	13.5	5.1	BDL	2.6

Sampling Date: 11/5/01				
VOC Compound	Influent (ppb)	Effluent After West First Stage GAC Unit (ppb)	Effluent After East First Stage GAC Unit (ppb)	Effluent After Final Stage GAC Unit (ppb)
1,1-Dichloroethane	2.7	2.8	1.2	< 0.3
1,1-Dichloroethene	6.2	5	1	< 0.4
Tetrachloroethene	11	5.7	1	< 0.2
TOTAL VOC'S	19.9	14.8	3.2	BDL

Sampling Date: 12/12/01				
VOC Compound	Influent (ppb)	Effluent After West First Stage GAC Unit (ppb)	Effluent After East First Stage GAC Unit (ppb)	Effluent After Final Stage GAC Unit (ppb)
Chloroform	< 0.5	< 0.5	0.7	< 0.5
1,1-Dichloroethane	2.4	2	2	0.7
1,1-Dichloroethene	4.9	4.7	2.6	< 0.4
Tetrachloroethene	8.8	5.2	1.6	< 0.2
Trichloroethene	1.9	< 0.3	< 0.3	< 0.3
TOTAL VOC'S	18	11.9	6.9	0.7

Figure 8
Total VOCs GTS Influent vs. Effluent - East

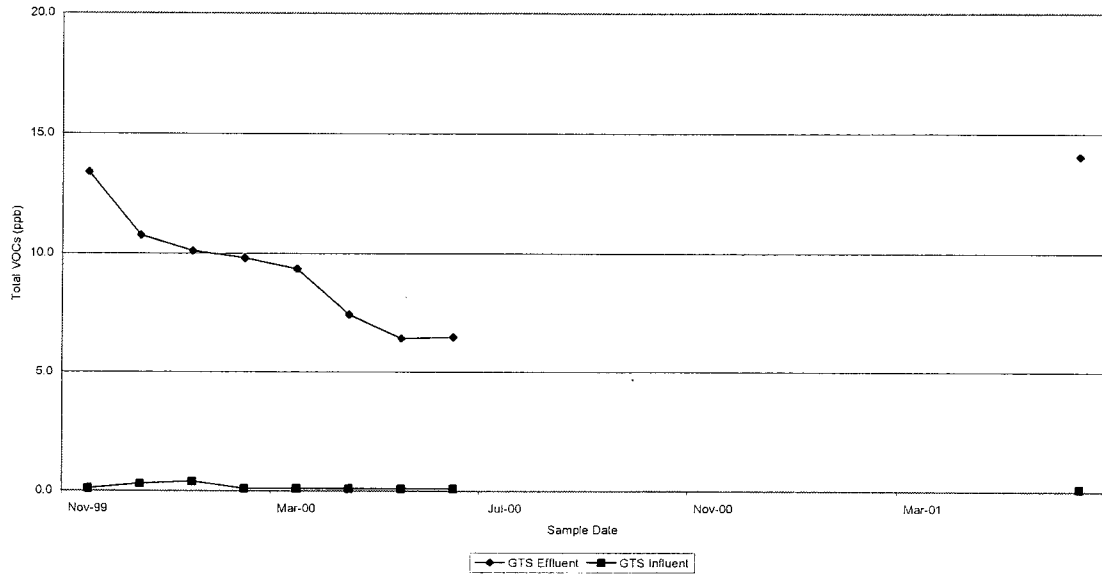
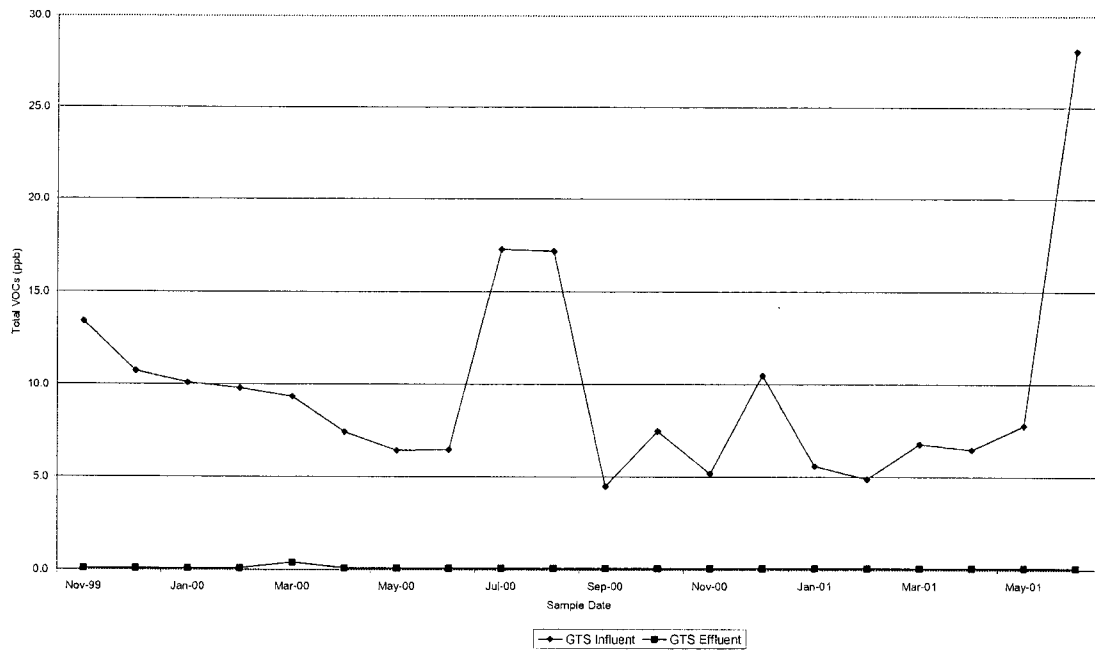


Figure 9
Total VOCs GTS Influent vs. Effluent - West



B. Effluent Sulfate Analysis and pH Monitoring

The June 1997 amendment to DP-1006 requires monthly sulfate analysis and daily pH monitoring of the GTS effluent. Table 10 presents the results of the fourth quarter sulfate analysis using EPA Method 375.4.

The monthly minimum, maximum, and average pH readings for this quarter are shown in Table 11.

Table 10
GTS Effluent Sulfate Concentrations

Date	Lab Report Number	Sulfate (mg/l)
10/18/01	110023	520
11/5/01	111024	510
12/12/01	112047	400

Table 11
Monthly pH Readings

Date	Minimum pH	Maximum pH	Average pH
10/01	7.7	8.1	7.8
11/01	7.8	8.1	7.9
12/01	7.8	10.1	8.0

C. Golf Course Pond Sampling

DP-1006 requires monthly sampling of the east and west ponds for 8021 (Halo) analysis during each month of operation. During the fourth quarter, the ponds were sampled three times pursuant to this requirement. No EPA Method 8021 (Halo) 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 analyzed, contour maps showing the areal extent and concentration of the contaminants in the groundwater are prepared. Contour maps for PCE, DCE, and TCA for the 2001 fall sampling event are shown in Figures 10, 11, and 12, respectively.

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

Schwartzman Property

UNM Championship Golf Course

Ethicon Property

UNM Property

PNM - Person Station Property

Capital
Lumber Co.

Rio Bravo Blvd

Interstate 25

Broadway

LEGEND

- ROAD
- PROPERTY BOUNDARY
- RAILROAD
- * MONITOR WELL AND CONCENTRATION

0 500 1000
FEET



PUBLIC SERVICE COMPANY
OF NEW MEXICO
PERSON GENERATING STATION

Concentration of PCE
in Groundwater
October 2001

Concentration Key:



> 200 ppb



100 to 200 ppb



20 to 100 ppb



5 to 20 ppb

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

Schwartzman Property

UNM Championship Golf Course

Ethicon Property

PNM - Person Station Property

UNM Property

Capital
Lumber Co.

Rio Bravo Blvd

Interstate 25

Broadway

LEGEND

- ROAD
- PROPERTY BOUNDARY
- RAILROAD
- * MONITOR WELL AND CONCENTRATION

0 500 1000
FEET



PUBLIC SERVICE COMPANY
OF NEW MEXICO
PERSON GENERATING STATION
Concentration of DCE
in Groundwater
October 2001

Concentration Key:



> 200 ppb



100 to 200 ppb



20 to 100 ppb



5 to 20 ppb

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

Schwartzman Property

UNM Championship Golf Course

Ethicon Property

PNM - Person Station Property

UNM Property

Capital
Lumber Co.

Rio Bravo Blvd

Interstate 25

Broadway

LEGEND

- ROAD
- PROPERTY BOUNDARY
- RAILROAD
- * MONITOR WELL AND CONCENTRATION

0 500 1000
FEET



PUBLIC SERVICE COMPANY
OF NEW MEXICO
PERSON GENERATING STATION
Concentration of 1,1,1-TCA
in Groundwater
October 2001

Concentration Key:



> 200 ppb



100 to 200 ppb

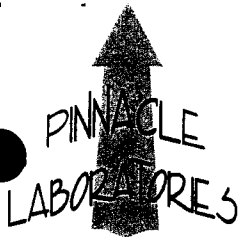


20 to 100 ppb



5 to 20 ppb

Appendix A. Laboratory Reports



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

Pinnacle Lab ID number **110023**
November 06, 2001

PUBLIC SERVICE COMPANY
ALVARADO SQUARE-ER16
ALBUQUERQUE, NM 87158

Project Name PERSON STATION
Project Number REMEDIATION

Attention: CHUCK ARATER

On 10/04/01 Pinnacle Laboratories, Inc., (ADHS License No. AZ0592 pending), 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 8021 HALO analyses were performed by Pinnacle Laboratories, Inc. Albuquerque, NM.

All other analyses were performed by Severn Trent Laboratories, Inc. Pensacola, FL.

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

H. Mitchell Rubenstein, Ph. D.
General Manager

MR: jt

Enclosure



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

CLIENT	: PUBLIC SERVICE COMPANY	PINNACLE ID	: 110023
PROJECT #	: REMEDIATION	DATE RECEIVED	: 10/04/01
PROJECT NAME	: PERSON STATION	REPORT DATE	: 11/06/01

PINNACLE ID #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
10023 - 01	GTS-INFLUENT	AQUEOUS	10/04/01
10023 - 02	GTS-GAC EFFLUENT EAST	AQUEOUS	10/04/01
10023 - 03	GTS-GAC EFFLUENT WEST	AQUEOUS	10/04/01
10023 - 04	UNM EAST RESERVOIR	AQUEOUS	10/04/01
10023 - 05	UNM WEST RESERVOIR	AQUEOUS	10/04/01
10023 - 06	CARBON FILTER FINAL	AQUEOUS	10/04/01
10023 - 07	TRIP BLANK	AQUEOUS	10/04/01
10023 - 08	VEW INFLUENT	AQUEOUS	10/04/01
10023 - 09	EW-1 INFLUENT	AQUEOUS	10/04/01
10023 - 10	PSMW-24,25,26 INFLUENT	AQUEOUS	10/04/01
10023 - 11	EW-3	AQUEOUS	10/04/01
10023 - 12	EW-2	AQUEOUS	10/04/01
10023 - 13	SURGE TANK DISCHARGE	AQUEOUS	10/04/01

PINNACLE Preliminary Results

Final report will be issued
upon receipt of data review

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

GAS CHROMATOGRAPHY RESULTS

TEST : 8021 HALO
CLIENT : PUBLIC SERVICE COMPANY
PROJECT # : REMEDIATION
PROJECT NAME : PERSON STATION

PINNACLE I.D.: 110023

AMPLE			DATE	DATE	DATE	DIL.
S. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
1	GTS-INFLUENT	AQUEOUS	10/04/01	NA	10/12/01	1
2	GTS-GAC EFFLUENT EAST	AQUEOUS	10/04/01	NA	10/12/01	1
3	GTS-GAC EFFLUENT WEST	AQUEOUS	10/04/01	NA	10/12/01	1

PARAMETER	DET. LIMIT	UNITS	GTS-INFLUENT	GTS-GAC EFFLUENT EAST	GTS-GAC EFFLUENT WEST
MONODICHLOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
MONOFORM	0.5	UG/L	< 0.5	< 0.5	< 0.5
MONOMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
CARBON TETRACHLORIDE	0.2	UG/L	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
CHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
CHLOROFORM	0.5	UG/L	< 0.5	< 0.5	< 0.5
CHLOROMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
1-BROMOCHLOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,2-DIBROMOETHANE (EDB)	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	0.3	UG/L	2.3	< 0.3	1.4
1,2-DICHLOROETHANE (EDC)	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHENE	0.2	UG/L	4.1	< 0.2	1.9
trans-1,2-DICHLOROETHENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
trans-1,2-DICHLOROETHENE	1.0	UG/L	< 1.0	< 1.0	< 1.0
1,2-DICHLOROPROPANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
trans-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
trans-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
ETHYLENE CHLORIDE	2.0	UG/L	< 2.0	< 2.0	< 2.0
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	7.1	< 0.5	1.8
1,1,1-TRICHLOROETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
1,1,2-TRICHLOROETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,1,2-TRICHLOROETHANE	0.3	UG/L	< 0.3	< 0.3	< 0.3
1,1,2-TRICHLOROETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,1,2-TRICHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5

PROBATE:
MONOCHLOROMETHANE (%) 88 104 87
PROBATE LIMITS (71 - 126)

REMARKS:

A

Pinnacle Preliminary Results

Final report will be issued
for review

LABORATORIES

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GAS CHROMATOGRAPHY RESULTS

TEST : 8021 HALO
CLIENT : PUBLIC SERVICE COMPANY
PROJECT # : REMEDIATION
PROJECT NAME : PERSON STATION

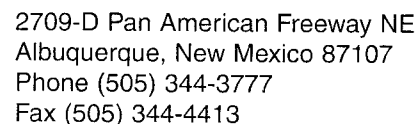
PINNACLE I.D.: 110023

SAMPLE #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
	UNM EAST RESERVOIR	AQUEOUS	10/04/01	NA	10/12/01	1
	UNM WEST RESERVOIR	AQUEOUS	10/04/01	NA	10/12/01	1
	CARBON FILTER FINAL	AQUEOUS	10/04/01	NA	10/12/01	1

PARAMETER	DET. LIMIT	UNITS	UNM EAST RESERVOIR	UNM WEST RESERVOIR	CARBON FILTER FINAL
ROMODICHLOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
ROMOFORM	0.5	UG/L	< 0.5	< 0.5	< 0.5
ROMOMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
CARBON TETRACHLORIDE	0.2	UG/L	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
CHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
CHLOROFORM	0.5	UG/L	< 0.5	< 0.5	< 0.5
CHLOROMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
BROMOCHLOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,2-DIBROMOETHANE (EDB)	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	0.3	UG/L	< 0.3	< 0.3	< 0.3
1,2-DICHLOROETHANE (EDC)	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,2-DICHLOROETHENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
trans-1,2-DICHLOROETHENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
cis-1,2-DICHLOROETHENE	1.0	UG/L	< 1.0	< 1.0	< 1.0
1,2-DICHLOROPROPANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
cis-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
ETHYLENE CHLORIDE	2.0	UG/L	< 2.0	< 2.0	2.6
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,1,1,2-TRICHLOROETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
1,1,2,2-TRICHLOROETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,1,2,2-TRICHLOROETHANE	0.3	UG/L	< 0.3	< 0.3	< 0.3
1,1,2,2-TRICHLOROETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,1,2,2-TRICHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5

PROBATE:
BROMOCHLOROMETHANE (%) 98 105 123
PROBATE LIMITS (71 - 126)

REMARKS:



TEST	: 8021 HALO	
CLIENT	: PUBLIC SERVICE COMPANY	PINNACLE I.D.: 110023
PROJECT #	: REMEDIATION	
PROJECT NAME	: PERSON STATION	

PARAMETER	DET. LIMIT	UNITS	TRIP BLANK	VIEW INFLUENT	EW-1 INFLUENT
1-BROMODICHLOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
2-BROMOFORM	0.5	UG/L	< 0.5	< 0.5	< 0.5
1-BROMOMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
1-CARBON TETRACHLORIDE	0.2	UG/L	< 0.2	< 0.2	< 0.2
1-CHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1-CHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1-CHLOROFORM	0.5	UG/L	< 0.5	< 0.5	< 0.5
1-CHLOROMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
1-BROMOCHLOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,2-DIBROMOETHANE (EDB)	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	0.3	UG/L	< 0.3	3.3	3.2
1,2-DICHLOROETHANE (EDC)	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHENE	0.2	UG/L	< 0.2	0.3	0.9
trans-1,2-DICHLOROETHENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
cis-1,2-DICHLOROETHENE	1.0	UG/L	< 1.0	< 1.0	< 1.0
1,2-DICHLOROPROPANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
trans-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
cis-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,1,1-ETHYLENE CHLORIDE	2.0	UG/L	< 2.0	7.9 - E	2.9 - E
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHENE	0.5	UG/L	< 0.5	< 0.5	1.8
1,1,1-TRICHLOROETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
1,1,2-TRICHLOROETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,1,2-TRICHLOROETHENE	0.3	UG/L	< 0.3	< 0.3	< 0.3
1,1,1-TRICHLOROFLUOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,1,1-NYL CHLORIDE	0.5	UG/L	< 0.5	< 0.5	< 0.5

CHEMIST NOTES:
 = This compound is reported as an estimated value due to CCV failure for dichloromethane.

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GAS CHROMATOGRAPHY RESULTS

TEST : 8021 HALO
CLIENT : PUBLIC SERVICE COMPANY
PROJECT # : REMEDIATION
PROJECT NAME : PERSON STATION

PINNACLE I.D.: 110023

SAMPLE	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
0	PSMW-24,25,26 INFLUENT	AQUEOUS	10/04/01	NA	10/15/01	1
1	EW-3	AQUEOUS	10/04/01	NA	10/15/01	1
2	EW-2	AQUEOUS	10/04/01	NA	10/15/01	1

PARAMETER	DET. LIMIT	UNITS	PSMW-24,25,26 INFLUENT	EW-3	EW-2
MONODICHLOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
MONOFORM	0.5	UG/L	< 0.5	< 0.5	< 0.5
MONOMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
CARBON TETRACHLORIDE	0.2	UG/L	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
CHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
CHLOROFORM	0.5	UG/L	< 0.5	< 0.5	< 0.5
CHLROMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
BROMOCHLOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,2-DIBROMOETHANE (EDB)	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	0.3	UG/L	< 0.3	3.2	5.1
1,2-DICHLOROETHANE (EDC)	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHENE	0.2	UG/L	< 0.2	8.5	2.1
trans-1,2-DICHLOROETHENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
trans-1,2-DICHLOROETHENE	1.0	UG/L	< 1.0	< 1.0	< 1.0
1,2-DICHLOROPROPANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
trans-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
trans-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
ETHYLENE CHLORIDE	2.0	UG/L	5.3 - E	12 - E	12 - E
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	8.0	15	2.1
1,1,1-TRICHLOROETHANE	1.0	UG/L	< 1.0	< 1.0	1.0
1,1,2-TRICHLOROETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,1,1-TRICHLOROETHENE	0.3	UG/L	1.2	< 0.3	< 0.3
1,1,1-TRICHLOROETHENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,1,1-TRICHLOROETHENE	0.5	UG/L	< 0.5	< 0.5	< 0.5

IRROGATE:
MONOCHLOROMETHANE (%) 108 109 105
IRROGATE LIMITS (71 - 126)

ANALYST NOTES:

This compound is reported as an estimated value due to CCV failure for dichloromethane.



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GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8021	PINNACLE I.D.	: 110023
LABORATORY I.D.	: 101201	DATE EXTRACTED	: N/A
CLIENT	: PUBLIC SERVICE COMPANY	DATE ANALYZED	: 10/12/01
PROJECT #	: REMEDIATION	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: PERSON STATION		

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
BROMOCHLOROMETHANE	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
1,2-DICHLOROETHENE	UG/L	<0.2
1,3-DICHLOROETHENE	UG/L	<0.2
trans-1,2-DICHLOROETHENE	UG/L	<1.0
1,2-DICHLOROPROPANE	UG/L	<0.2
1,3-DICHLOROPROPENE	UG/L	<0.2
trans-1,3-DICHLOROPROPENE	UG/L	<0.2
ETHYLENE CHLORIDE	UG/L	<2.0
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.5
1,1,2,2-TETRACHLOROETHENE	UG/L	<0.5
1,1,1-TRICHLOROETHANE	UG/L	<1.0
1,1,2-TRICHLOROETHANE	UG/L	<0.2
1,1,2-TRICHLOROETHENE	UG/L	<0.3
1,1,2-TRICHLOROETHANE	UG/L	<0.2
1,1,2-TRICHLOROETHENE	UG/L	<0.3
1,1,2-TRICHLOROETHANE	UG/L	<0.2
1,1,2-TRICHLOROETHENE	UG/L	<0.5

REMARKS:
BROMOCHLOROMETHANE (%) 108
REMARKS LIMITS (71 - 126)

REMARKS NOTES:

REMARKS



EST	: EPA 8021		
WELL I.D.	: 101501	PINNACLE I.D.	: 110023
CLIENT	: PUBLIC SERVICE COMPANY	DATE EXTRACTED	: N/A
PROJECT #	: REMEDIATION	DATE ANALYZED	: 10/15/01
PROJECT NAME	: PERSON STATION	SAMPLE MATRIX	: AQUEOUS

PARAMETER	UNITS	
PERMETHYLCHLOROMETHANE	UG/L	<0.2
PERMETHYLFORM	UG/L	<0.5
PERMETHYL METHANE	UG/L	<1.0
CARBON TETRACHLORIDE	UG/L	<0.2
CHLORO BENZENE	UG/L	<0.5
CHLOROETHANE	UG/L	<0.5
CHLOROFORM	UG/L	<0.5
CHLOROMETHANE	UG/L	<1.0
BROMOCHLOROMETHANE	UG/L	<0.2
1,2-DIBROMOETHANE (EDB)	UG/L	<0.2
1,2-DICHLORO BENZENE	UG/L	<0.5
1,3-DICHLORO BENZENE	UG/L	<0.5
1,4-DICHLORO BENZENE	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
1,1,2-DICHLOROETHENE	UG/L	<0.2
trans-1,2-DICHLOROETHENE	UG/L	<1.0
1,2-DICHLOROPROPANE	UG/L	<0.2
1,1,3-DICHLOROPROPENE	UG/L	<0.2
trans-1,3-DICHLOROPROPENE	UG/L	<0.2
ETHYLENE CHLORIDE	UG/L	<2.0
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.5
1,1,2,2-TETRACHLOROETHENE	UG/L	<0.5
1,1,1-TRICHLOROETHANE	UG/L	<1.0
1,1,2-TRICHLOROETHANE	UG/L	<0.2
1,1,1-TRICHLOROETHENE	UG/L	<0.3
1,1,1-TRICHLOROFLUOROMETHANE	UG/L	<0.2
1,1,1-TRICHLOROETHYLENE	UG/L	<0.5

ERROGATE:		
OMOCHLOROMETHANE (%)		114
ERROGATE LIMITS (71 - 126)		

EMIST NOTES:

PINNACLE
LABORATORIES

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GAS CHROMATOGRAPHY - QUALITY CONTROL
MSMSD

EST : EPA 8021 MODIFIED
MSMSD # : 110023-12
CLIENT : PUBLIC SERVICE COMPANY
PROJECT # : REMEDIATION
PROJECT NAME : PERSON STATION
PINNACLE I.D. : 110023
DATE EXTRACTED : N/A
DATE ANALYZED : 11/16/01
SAMPLE MATRIX : AQUEOUS
UNITS : UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
CHLOROBENZENE	<0.5	10.0	10.4	104	11.0	110	6	(87 - 124)	20
1,1-DICHLOROETHENE	2.1	10.0	10.9	88	10.6	85	3	(80 - 120)	20
1,2-DICHLOROETHENE	<0.3	10.0	10.7	107	11.6	116	8	(89 - 127)	20

CHEMIST NOTES:

/A

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

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

SEVERN**TRENT****SERVICES****STL Pensacola**

LOG NO: C1-10141

Received: 05 OCT 01

Reported: 18 OCT 01

Ms. Jacinta Tenorio
Pinnacle Laboratories
2709-D Pan American Freeway Northeast
Albuquerque, NM 87107

Project: 110023, PNM-PERSON STATION

Sampled By: Client

Code: 100511018

Page 1

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10141-1	SURGE TANK DISCHARGE/110023-13	10-04-01/10:32
PARAMETER	10141-1	
Sulfate as SO4 (375.4), mg/l	520	
Dilution Factor	20	
Analysis Date	10.15.01	
Batch ID	SEW133	
Analyst	BE	

SEVERN

TRENT

SERVICES

STL Pensacola

LOG NO: C1-10141

Received: 05 OCT 01

Reported: 18 OCT 01

Ms. Jacinta Tenorio
Pinnacle Laboratories
2709-D Pan American Freeway Northeast
Albuquerque, NM 87107

Project: 110023, PNM-PERSON STATION

Sampled By: Client

Code: 100511018

Page 2

REPORT OF RESULTS


LOG NO SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES

10141-2 Method Blank
10141-3 Lab Control Standard % Recovery
10141-4 Matrix Spike % Recovery
10141-5 Matrix Spike Duplicate % Recovery

PARAMETER	10141-2	10141-3	10141-4	10141-5
Sulfate as SO ₄ (375.4), mg/l	<5.0	92 %	129 %	129 %
Dilution Factor	1	---	---	---
Analysis Date	10.15.01	---	---	---
Batch ID	SEW133	SEW133	SEW133	SEW133
Analyst	BE	---	---	---

These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the STL Project Manager who signed this test report.

See the Project Sample Inspection Form (PSIF) to determine if a sample was received that did not meet EPA requirements for sample collection, preservation, or holding time.


Lance Larson, Project Manager

Final Page Of Report

Data Qualifiers for Final Report

B1	The analyte was detected in the associated method blank (sample itself is flagged even though sample is ND).
B2	The analyte was detected in the sample(s) and in the associated method blank analyzed on the day samples were extruded; however, this analyte was not detected in the blank analyzed with the samples.
B3	The analyte was found in the associated blank as well as in the associated sample(s) (qualifier is applied to the sample, not to the blank).
B4	Sample results were corrected due to contaminants in Fractionation Blank
D	Diluted out (surrogate or spike due to sample dilution)
E	Compound concentration exceeds the upper calibration range of the instrument.
F	The reported value is < STL Pensacola RL and ≥ the STL Pensacola MDL; therefore, the quantitation is estimation.
G	Sample and/or duplicate result is at or below 5 X (times) the STL Reporting Limit and the absolute difference between the sample and duplicate result is at or below the STL reporting limit; therefore, the results are "in control".
H1	Sample and/or duplicate is below 5 X (times) the STL Reporting Limit and the absolute difference between the results exceeds the STL Reporting Limit; therefore, the results are "out of control"
H2	Sample and duplicate (or MS and MSD) RPD is above control limit.
J (description)	The analyte was positively identified, the quantitation may be an estimation
J4	(For positive results) Temperature limits exceeded ($\leq 2^{\circ}\text{C}$ or $\geq 6^{\circ}\text{C}$), non-reportable for NPDES compliance monitoring.
J6	(For positive results) LCS or Surrogate %R is > upper control limit (UCL), results may be biased high
J8	Matrix spike and post spike recoveries are outside control limits. See out of Control Events/Corrective Action Form.
J9	(For positive results) LCS or Surrogate %R is < lower control limit (LCL), results may be biased low
M1	A matrix effect was present (¹ sample, MS or MSD was analyzed twice to confirm surrogate/spike failure, ² sample and/or MS/MSD chromatogram(s) had interfering peaks, ³ sample result was > 4 X spike added, ⁴ metals serial dilution was performed, or ⁵ metals post spike is < 40% R)
M2	The MS and/or MSD %R or RPD was outside upper or lower control limits; not necessarily due to matrix effect.
N/C	Not Calculable; Sample spiked is > 4X spike concentration (may also use this flag in place of negative numbers)
NH	Sample and duplicate results are "out of control". The sample is nonhomogeneous.
NoMS	Not enough sample provided to prepare and/or analyze a method-required matrix spike (MS) and/or duplicate (MSD)
Q	The analytical (post digestion) spike is reported due to the percent recovery being outside limits on the matrix (pre-digestion) spike.
R (description)	The quantitation may be an estimation.
R1	(For nondetects) Temperature limits exceeded ($\leq 2^{\circ}\text{C}$ or $\geq 6^{\circ}\text{C}$); non-reportable for NPDES compliance monitoring
R2	Improper preservation, no preservative present or insufficient amounts of preservative in sample upon receipt, non-reportable for NPDES compliance monitoring
R4	Improper preservation, incorrect preservative present in sample upon receipt, non-reportable for NPDES compliance
R5	Holding time exceeded, non-reportable for NPDES compliance monitoring.
R6	Sample collection requirements not met, see case narrative.
R7	LCS or surrogate %R is < LCL and analyte is not detected or surrogate %R is < 10% for detects/nondetects.
R8	Internal standard area outside -50% to +100% of calibration verification standard.
R9	Initial calibration or any calibration verification exceeds acceptance criteria.
R10	Not filtered and preserved at time of collection.
R11	Headspace > 1/4" in diameter in volatile vials, non-reportable for NPDES compliance monitoring
R12	Samples were filtered and preserved within 4 hours of collection.
S1	Analysis performed outside the 12-hour tune or not within tune criteria.
S2	The Method of Standard Additions (MSA) has been performed on this sample.
S3 (Flashpoint)	Incorrect sample amount was submitted to the laboratory for analysis
T	This method is not designed for solids and the results may not be accepted by any regulator for such purposes.
TIC	Second-column or detector confirmation exceeded the SW-846 criteria of 40% RPD for this compound.
U	The compound is not within the initial calibration curve. It is searched for qualitatively or as a Tentatively Identified Compound.
W	The analyte was analyzed for but not detected (at or above the RL or the MDL, whichever is entered next to the "U" value. Value for result will never be below the MDL)
@	Post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is less than 50% spike absorbance.
#	Adjusted reporting limit due to sample composition, not due to overcal (dilution prior to digestion and/or analysis).
1 pt	Elevated reporting limit due to insufficient sample size
• (Metals & Wet Chem)	The compound has been quantitated against a one point calibration.
	Elevated reporting limit due to matrix interference (dilution prior to digestion and/or analysis)

STL PENSACOLA
State Certifications

Alabama Department of Environmental Management, Laboratory ID No. 40150 (Drinking Water by Reciprocity with FL), expires 06/30/02

Arizona Department of Health Services, Lab ID No. AZ0589 (Hazardous Waste & Wastewater), expires 01/12/02

Arkansas Department of Pollution Control and Ecology, (No Laboratory ID No. assigned by state) (Environmental), expires 02/07/02

State of California, Department of Health Services, Laboratory ID No. 01128CA (Hazardous Waste and Wastewater), expires 03/31/02

State of Connecticut, Department of Health Services, Connecticut Lab Approval No. PH-0697 (D W, H W and Wastewater), expires 09/30/01

Delaware Health & Social Services, Division of Public Health, Laboratory ID No. FL094 (Drinking Water by Reciprocity with FL) Extension granted

Florida DOH Laboratory ID No. E81010 (Drinking Water, Hazardous Waste and Wastewater), expires 06/30/02

Florida DEP/DOH CompQAP # 980156

Florida, Radioactive Materials License No. G0733-I, no expiration date assigned

Foreign Soil Permit, Permit No. S-37599

Kansas Department of Health & Environment, Laboratory ID No. E10253 (Wastewater and Hazardous Waste), expires 10/31/01

Commonwealth of Kentucky, Natural Resources and Environmental Protection Cabinet, Laboratory ID No. 90043 (Drinking Water), expires 12/31/01

State of Louisiana, DHH, Office of Public Health Division of Laboratories, Laboratory ID No. LA000017 (Drinking Water), expires 12/31/01

Louisiana Department of Environmental Quality, LELAP, Laboratory ID No. 02075, Agency Interest ID 30748 (Environmental), expires 6/30/02

State of Maryland, DH&MH Laboratory ID No. 233 (Drinking Water by Reciprocity with Florida), expires 09/30/02

Commonwealth of Massachusetts, DEP, Laboratory ID No. M-FL094 (Wastewater), expires 06/30/02

State of Michigan, Bureau of E&OccH, Laboratory ID No. 9912 (Drinking Water by Reciprocity with Florida), expires 06/30/02

New Hampshire DES ELAP, Laboratory ID No. 250501 (Wastewater), expires 08/16/02

State of New Jersey, Department of Env. Protection & Energy, Laboratory ID No. 49006 (Wastewater and Hazardous Waster), expires 06/30/01

New York State, Department of Health, Laboratory ID No. 11503 (WW and Solids/Hazardous Waste), expires 03/31/02

North Carolina Department of Environment & Natural Resources, Laboratory ID No. 314 (Hazardous Waste and Wastewater), expires 12/31/01

North Dakota DH&Consol Labs, Laboratory ID No. R-108 Wastewater and Hazardous Waste by Reciprocity with Florida), expires 06/30/02

State of Oklahoma, Oklahoma Department of Environmental Quality, Laboratory ID No. 9810 (Hazardous Waste and Wastewater), expires 08/31/02

Commonwealth of Pennsylvania, Department of Environmental Resources, Laboratory ID No. 68-467 (Drinking Water), expires 12/01/01

South Carolina DH&EC, Laboratory ID No. 96026 (Wastewater & Solids/Hazardous Waste by Reciprocity with FL), expires 06/30/02

Tennessee Department of Health & Environment, Laboratory ID No. 02907 (Drinking Water), expires 08/03/04

Virginia Department of General Services, Laboratory ID No. 00008 (Drinking Water by Reciprocity with FL), expires 06/30/02

State of Washington, Department of Ecology, Laboratory ID No. C282 (Hazardous Waste and Wastewater), expires 09/14/01

Virginia Division of Env., Office of Water Resources, Laboratory ID No. 136 (Haz Waste and Wastewater Reciprocity FL), expires 12/31/01

American Industrial Hygiene Association (AIHA) Accredited Laboratory, Laboratory ID No. 100704, expires 04/01/04

STL Pensacola PROJECT SAMPLE INSPECTION FORM

**SEVERN
TRENT
SERVICES**

Lab Order #: 2110141 Date Received: 10-5-01

- | | |
|--|---|
| <p>1. Was there a Chain of Custody? <u>Yes</u> No⁺</p> <p>2. Was Chain of Custody properly filled out and relinquished? <u>Yes</u> No⁺</p> <p>3. Were samples received cold? <u>Yes</u> No⁺ N/A
(Criteria: 2° - 6°C: STL-SOP)</p> <p>4. Were all samples properly labeled and identified? <u>Yes</u> No⁺</p> <p>5. Did samples require splitting or compositing*? Yes⁺ <u>No</u>
Req By: PM Client Other⁺</p> <p>6. Were samples received in proper containers for analysis requested? <u>Yes</u> No⁺</p> <p>7. Were all sample containers received intact? <u>Yes</u> No⁺</p> | <p>8. Were samples checked for preservative? <i>(Check pH of all H₂O requiring preservative (STL-PN SOP 917) except VOA vials that require zero headspace)*</i> Yes No⁺ <u>N/A</u></p> <p>9. Is there sufficient volume for analysis requested? <u>Yes</u> No⁺ N/A
(Can)</p> <p>10. Were samples received within Holding Time? <i>(REFER TO STL-SOP 1040)</i> <u>Yes</u> No⁺</p> <p>11. Is Headspace visible > ¼" in diameter in VOA vials? * If any headspace is evident, comment in out-of-control section. Yes⁺ No <u>N/A</u></p> <p>12. If sent, were matrix spike bottles returned? Yes No⁺ <u>N/A</u></p> <p>13. Was Project Manager notified of problems? (initials: _____) Yes No⁺ <u>N/A</u></p> |
|--|---|

Airbill Number(s): 1X 878 168 01 4361
2120

Shipped By: UPS

Cooler Number(s): client

Shipping Charges: N/A

Cooler Weight(s): 46#

Cooler Temp(s) (°C): 2°

CCK11
(LIST THERMOMETER NUMBER(S) FOR VERIFICATION)

Out of Control Events and Inspection Comments:

(USE BACK OF PSIF FOR ADDITIONAL NOTES AND COMMENTS)

Inspected By: DMH Date: 10-5-01

Logged By: per Date: 10/5/01

Note all Out-of-Control and/or questionable events on Comment Section of this form. For holding times, the analytical department will flag immediate hold time samples (pH, Dissolved O₂, Residual CL) as out of hold time, therefore, these samples will not be documented on this PSIF.

If Other, note who requested the splitting or compositing of samples on the Comment Section of this form. All volatile samples requested to be split or composited must be done in the Volatile Lab. Document: "Volatile sample values may be compromised due to sample splitting (compositing)"

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 (STL-SOP 938, section 2.2.9).

According to EPA, ¼" of headspace is allowed in 40 ml vials requiring volatile analysis, however, STL makes it policy to record any headspace as out-of-control (STL-SOP 938, section 2.2.12).

Network Project Manager: Jacinta A. Tenorio

Pinnacle Laboratories, Inc.
2709-D Pan American Freeway, NE
Albuquerque, New Mexico 87107
(505) 344-3777 Fax (505) 344-4413

C/10/41

ANALYSIS REQUEST

[illegible]

PROJECT INFORMATION		SAMPLE RECEIPT		SAMPLES SENT TO:		RELINQUISHED BY: 1.		RELINQUISHED BY: 2.	
PROJECT #: 110023		Total Number of Containers		PENSACOLA - STL-FL		Signature: Francine Trivino		Signature:	
PROJ. NAME: PNM		Chain of Custody Seals		ESL - OR		Time: 1700		Time:	
QC LEVEL: STD IV		Received Intact?		STL - CT		Printed Name: Francine Trivino		Printed Name:	
QC REQUIRED: MS MSD BLANK		Received Good Cond./Cold		ATEL - AZ		Date: 10/4/01		Date:	
TAT: STANDARD RUSH!!		LAB NUMBER:		ATEL - MARION		Pinnacle Laboratories, Inc.		Company	
				ATEL - MELMORE		RECEIVED BY: 1.		RECEIVED BY: 2.	
DUE DATE: 10/18		COMMENTS:		BARRINGER		Signature:		Signature:	
RUSH SURCHARGE: -				ENVIRO TEST LABS		Time: 1007		Time:	
CLIENT DISCOUNT: -				WCAS		Printed Name:		Printed Name:	
SPECIAL CERTIFICATION				WOHL		Date: 10/5/01		Date:	
REQUIRED: YES NO						Company STL-DUS		Company	

SHADED AREAS ARE FOR LAB USE ONLY

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: CHUCK ARATER

COMPANY: PUBLIC SERVICE COMPANY OF NEW MEXICO

ADDRESS: ALVARADO SQUARE - ER16
ALBUQUERQUE, NM 87158

PHONE: (505) 241-4744

FAX: (505) 241-2487

BILL TO: SAME

COMPANY:

ADDRESS: ATTN: CHUCK ARATER

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1) TRPH (MOD.8015) Diesel/Direct Inject	(M8015) Gas/Purge & Trap	8021 (BTEX)/8015 (Gasoline) MTBE	8021 (BTEX) <input type="checkbox"/> MTBE <input type="checkbox"/> TMB <input type="checkbox"/> PCE	8021 (TCL)	8021 (EDX)	8021 (HALO)	8021 (CUST)	504.1 EDB <input type="checkbox"/> / DBCP <input type="checkbox"/>	8260 (TCL) Volatile Organics	8260 (Full) Volatile Organics	8260 (CUST) Volatile Organics	8260 (Landfill) Volatile Organics	Pesticides / PCB (608/8081/8082)	Herbicides (615/8151)	Base/Neutral/Acid Compounds GOMS (625/8270)	Polynuclear Aromatics (610/8310/8270-SIMS)	General Chemistry:	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals:	NUMBER OF CONTAINERS
GTS-INFLUENT	10-4	1024	W	01							X																	3
GTS-AIR STRIPPER EFFLUENT EAST																												
GTS-AIR STRIPPER EFFLUENT WEST																												
GTS-GAC EFFLUENT EAST	10-4	1017	W	02						X																		3
GTS-GAC EFFLUENT WEST	10-4	1023	W	03						X																		3
UNM EAST RESERVIOR	10-4	1048	W	04						X																		3
UNM WEST RESERVOIR	10-4	1054	W	05						X																		3
Carbon Filter Final	10-4	1021	W	06						X																		3
TRIP BLANK	10-4		W	07						X																		1

PROJECT INFORMATION

PROJ. NO.: Remediation

PROJ. NAME: Person Station

P.O. NO.:

SHIPPED VIA:

SAMPLE RECEIPT

NO. CONTAINERS

19

CUSTODY SEALS

N/A

RECEIVED INTACT

Yes

BUCKETAGE

10/3/04

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK(NORMAL) ☒CERTIFICATION REQUIRED: ☐ NM ☐ SDWA ☐ OTHERMETHANOL PRESERVATION ☐COMMENTS: FIXED FEE ☐

4 copies Please

PLEASE PROVIDE DATA ON DISKETTE AS WELL AS EXTRA HARD COPY TO RON JOHNSON MS-0408

Direct from Field

RELINQUISHED BY:

1.

RELINQUISHED BY:

2.

Signature:

Time:

Printed Name:

Date:

Company:

See reverse side (Force Majeure)

RECEIVED BY:

1.

RECEIVED BY: (LAB)

2.

Signature:

Time:

Printed Name:

Date:

Company:

Pinnacle Laboratories Inc.

SHADED AREAS ARE FOR ABUSE ONLY

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER:		CHUCK ARATER
COMPANY:	PUBLIC SERVICE COMPANY OF NEW MEXICO	
ADDRESS:	ALVARADO SQUARE - ER16	
	ALBUQUERQUE, NM 87158	
PHONE:	(505) 241-4744	
FAX:	(505) 241-2487	
BILL TO:	SAME	
COMPANY:		
ADDRESS:	ATTN: CHUCK ARATER	

[illegible]

PROJECT INFORMATION		PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS		RELINQUISHED BY: 1.		RELINQUISHED BY: 2.	
PROJ. NO.: Remediation		(RUSH) <input type="checkbox"/> 24hr <input type="checkbox"/> 48hr <input type="checkbox"/> 72hr <input type="checkbox"/> 1 WEEK (NORMAL) <input checked="" type="checkbox"/>		Signature: <i>Chuck</i> Time: <i>1250</i>		Signature: Time:	
PROJ. NAME: Person Station		CERTIFICATION REQUIRED: <input type="checkbox"/> NM <input type="checkbox"/> SDWA <input type="checkbox"/> OTHER		Printed Name: Date: <i>Chuck Brown 10-4-01</i>		Printed Name: Date:	
P.O. NO.:		METHANOL PRESERVATION <input type="checkbox"/>		Company: <i>PNN</i> See reverse side (Force Majeure)		Company:	
SHIPPED VIA:		COMMENTS: FIXED FEE <input type="checkbox"/> <i>4 copies Please</i> <i>3</i>		RECEIVED BY: 1.		RECEIVED BY: (LAB) 2.	
SAMPLE RECEIPT		PLEASE PROVIDE DATA ON DISKETTE AS WELL AS EXTRA HARD COPY TO RON JOHNSON MS-0408		Signature: Time:		Signature: Time: <i>1250</i>	
NO. CONTAINERS: <i>16</i>				Printed Name: Date:		Printed Name: Date: <i>10/4/01</i>	
CUSTODY SEALS: <i>16 (NA)</i>				Company:		Pinnacle Laboratories Inc.	
RECEIVED INTACT: <i>YES</i>							
BLUE ICE: <i>10-3-0</i>		Direct from Field					



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

Pinnacle Lab ID number **111024**
November 29, 2001

PUBLIC SERVICE COMPANY
ALVARADO SQUARE-MS2104
ALBUQUERQUE, NM 87158

Project Name PERSON STATION
Project Number REMEDIATION

Attention: CHUCK ARATER

On 11/05/01 Pinnacle Laboratories, Inc., (ADHS License No. AZ0592 pending), 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 8021 analyses were performed by Pinnacle Laboratories, Inc. Albuquerque, NM.

All other analyses were performed by Severn Trent Laboratories, Inc. Pensacola, FL.

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

H. Mitchell Rubenstein, Ph. D.
General Manager

MR: jt

Enclosure



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

CLIENT : PUBLIC SERVICE COMPANY
PROJECT # : REMEDIATION
PROJECT NAME : PERSON STATION
PINNACLE ID : 111024
DATE RECEIVED : 11/05/01
REPORT DATE : 11/29/01

ID #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
1024 - 01	GTS-INFLUENT	AQUEOUS	11/05/01
1024 - 02	GTS-GAC EFFLUENT EAST	AQUEOUS	11/05/01
1024 - 03	GTS-GAC EFFLUENT WEST	AQUEOUS	11/05/01
1024 - 04	UNM EAST RESERVOIR	AQUEOUS	11/05/01
1024 - 05	UNM WEST RESERVOIR	AQUEOUS	11/05/01
1024 - 06	GAC FINAL	AQUEOUS	11/05/01
1024 - 07	TRIP BLANK	AQUEOUS	11/05/01
1024 - 08	VEW INFLUENT	AQUEOUS	11/05/01
1024 - 09	PSMW-16 INFLUENT	AQUEOUS	11/05/01
1024 - 10	EW-1 INFLUENT	AQUEOUS	11/05/01
1024 - 11	PSMW-24,25,26 INFLUENT	AQUEOUS	11/05/01
1024 - 12	EW-3	AQUEOUS	11/05/01
1024 - 13	EW-2	AQUEOUS	11/05/01
1024 - 14	SURGE TANK DISCHARGE	AQUEOUS	11/05/01



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

GAS CHROMATOGRAPHY RESULTS

TEST : 8021 HALO
CLIENT : PUBLIC SERVICE COMPANY
PROJECT # : REMEDIATION
PROJECT NAME : PERSON STATION

PINNACLE I.D.: 111024

SAMPLE #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
	GTS-INFLUENT	AQUEOUS	11/05/01	NA	11/07/01	1
	GTS-GAC EFFLUENT EAST	AQUEOUS	11/05/01	NA	11/07/01	1
	GTS-GAC EFFLUENT WEST	AQUEOUS	11/05/01	NA	11/07/01	1

PARAMETER	DET. LIMIT	UNITS	GTS-INFLUENT	GTS-GAC EFFLUENT EAST	GTS-GAC EFFLUENT WEST
MONODICHLOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
MONOFORM	0.5	UG/L	< 0.5	< 0.5	< 0.5
MONOMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
CARBON TETRACHLORIDE	0.4	UG/L	< 0.4	< 0.4	< 0.4
MONOCHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
MONOETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
MONOFORM	0.5	UG/L	< 0.5	< 0.5	1.3
MONOMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
BROMOCHLOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,2-DIBROMOETHANE (EDB)	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	0.3	UG/L	2.7	1.2	2.8
1,2-DICHLOROETHANE (EDC)	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHENE	0.2	UG/L	6.2	1.0	5.0
trans-1,2-DICHLOROETHENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
cis-1,2-DICHLOROETHENE	1.0	UG/L	< 1.0	< 1.0	< 1.0
1,2-DICHLOROPROPANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
cis-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
ETHYLENE CHLORIDE	2.0	UG/L	< 2.0	< 2.0	< 2.0
1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,1,2-TETRACHLOROETHANE	0.5	UG/L	11	1.0	5.7
1,1,1-TRICHLOROETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
1,1,2-TRICHLOROETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,1,1-TRICHLOROETHENE	0.3	UG/L	< 0.3	< 0.3	< 0.3
1,1,1-TRICHLOROETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,1,1-TRICHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5

IRROGATE:
MONOCHLOROMETHANE (%) 98 96 107
IRROGATE LIMITS (71 - 126)

REMARKS:

NOTE 1: Detection Limit for Carbon Tetrachloride adjusted due to an interference present that coelutes with this compound.



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

GAS CHROMATOGRAPHY RESULTS

TEST : 8021 HALO
CLIENT : PUBLIC SERVICE COMPANY
PROJECT # : REMEDIATION
PROJECT NAME : PERSON STATION

PINNACLE I.D.: 111024

SAMPLE #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
	UNM EAST RESERVOIR	AQUEOUS	11/05/01	NA	11/07/01	1
	UNM WEST RESERVOIR	AQUEOUS	11/05/01	NA	11/07/01	1
	GAC FINAL	AQUEOUS	11/05/01	NA	11/07/01	1

PARAMETER	DET. LIMIT	UNITS	UNM EAST RESERVOIR	UNM WEST RESERVOIR	GAC FINAL
BROMODICHLOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
BROMOFORM	0.5	UG/L	< 0.5	< 0.5	< 0.5
BROMOMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
CARBON TETRACHLORIDE	0.4	UG/L	< 0.4	< 0.4	< 0.4
CHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
CHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
CHLOROFORM	0.5	UG/L	< 0.5	< 0.5	< 0.5
CHLOROMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
BROMOCHLOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,2-DIBROMOETHANE (EDB)	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	0.3	UG/L	< 0.3	< 0.3	< 0.3
1,2-DICHLOROETHANE (EDC)	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
trans-1,2-DICHLOROETHENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
cis-1,2-DICHLOROETHENE	1.0	UG/L	< 1.0	< 1.0	< 1.0
1,2-DICHLOROPROPANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
cis-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
ETHYLENE CHLORIDE	2.0	UG/L	< 2.0	< 2.0	< 2.0
1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
1,1,2-TRICHLOROETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,1,1-TRICHLOROETHENE	0.3	UG/L	< 0.3	< 0.3	< 0.3
1,1,1-TRICHLOROFLUOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
PERFLUOROMETHYL CHLORIDE	0.5	UG/L	< 0.5	< 0.5	< 0.5

PROBATE:
BROMOCHLOROMETHANE (%) 106 107 125
PROBATE LIMITS (71 - 126)

REMARKS:

NOTE 1: Detection Limit for Carbon Tetrachloride adjusted due to an interference present that coelutes with this compound.



```

EST                : 8021 HALO
CLIENT            : PUBLIC SERVICE COMPANY
PROJECT #         : REMEDIATION
PROJECT NAME      : PERSON STATION

```

SAMPLE #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
	TRIP BLANK	AQUEOUS	11/05/01	NA	11/09/01	1
	VEW INFLUENT	AQUEOUS	11/05/01	NA	11/09/01	1
	PSMW-16 INFLUENT (EW-4)	AQUEOUS	11/05/01	NA	11/09/01	1

PROPOSED:				
MONOCHLOROMETHANE (%)	100	90	97	97
PROPOSED LIMITS (71 - 126)				

NOTE 1: Detection Limit for Carbon Tetrachloride adjusted due to an interference present that coelutes with this compound.



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

GAS CHROMATOGRAPHY RESULTS

TEST : 8021 HALO
CLIENT : PUBLIC SERVICE COMPANY
PROJECT # : REMEDIATION
PROJECT NAME : PERSON STATION

PINNACLE I.D.: 111024

SAMPLE #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
1	EW-1 INFLUENT	AQUEOUS	11/05/01	NA	11/09/01	1
2	PSMW-24,25,26 INFLUENT	AQUEOUS	11/05/01	NA	11/09/01	1
3	EW-3	AQUEOUS	11/05/01	NA	11/09/01	1

PARAMETER	DET. LIMIT	UNITS	EW-1 INFLUENT	PSMW-24,25,26 INFLUENT	EW-3
BROMODICHLOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
BROMOFORM	0.5	UG/L	< 0.5	< 0.5	< 0.5
BROMOMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
CARBON TETRACHLORIDE	0.4	UG/L	< 0.4	< 0.4	< 0.4
CHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
CHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
CHLOROFORM	0.5	UG/L	0.6	< 0.5	< 0.5
CHLOROMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
BROMOCHLOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,2-DIBROMOETHANE (EDB)	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	0.3	UG/L	3.0	< 0.3	3.1
1,2-DICHLOROETHANE (EDC)	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,2-DICHLOROETHENE	0.2	UG/L	0.9	5.8	9.1
trans-1,2-DICHLOROETHENE	0.2	UG/L	< 0.2	< 0.2	0.2
trans-1,2-DICHLOROETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
1,2-DICHLOROPROPANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
trans-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
ETHYLENE CHLORIDE	2.0	UG/L	< 2.0	< 2.0	< 2.0
1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,1,2-TRICHLOROETHANE	0.5	UG/L	1.8	8.8	16
1,1,1-TRICHLOROETHANE	1.0	UG/L	< 1.0	< 1.0	1.0
1,2-TRICHLOROETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,1-DICHLOROETHENE	0.3	UG/L	< 0.3	< 0.3	0.3
1,1-DICHLOROETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,1-DICHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5

PROGATE:
BROMOCHLOROMETHANE (%) 101 92 93
PROGATE LIMITS (71 - 126)

EMIST NOTES:

NOTE 1: Detection Limit for Carbon Tetrachloride adjusted due to an interference present that colelutes the compound.



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

GAS CHROMATOGRAPHY RESULTS

ST : 8021 HALO
IENT : PUBLIC SERVICE COMPANY
OJECT # : REMEDIATION
OJECT NAME : PERSON STATION

PINNACLE I.D.: 111024

MPLE #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
	EW-2	AQUEOUS	11/05/01	NA	11/09/01	1
PARAMETER	DET. LIMIT	UNITS	EW-2			
OMODICHLOROMETHANE	0.2	UG/L	< 0.2			
OMOFORM	0.5	UG/L	< 0.5			
OMOMETHANE	1.0	UG/L	< 1.0			
RBON TETRACHLORIDE	0.4	UG/L	< 0.4			
LOROBENZENE	0.5	UG/L	< 0.5			
ILOROETHANE	0.5	UG/L	< 0.5			
ILOROFORM	0.5	UG/L	< 0.5			
LOROMETHANE	1.0	UG/L	< 1.0			
3ROMOCHLOROMETHANE	0.2	UG/L	< 0.2			
-DIBROMOETHANE (EDB)	0.2	UG/L	< 0.2			
-DICHLOROETHANE	0.5	UG/L	< 0.5			
-DICHLOROETHANE	0.5	UG/L	< 0.5			
-DICHLOROETHANE	0.5	UG/L	< 0.5			
-DICHLOROETHANE	0.3	UG/L	5.0			
-DICHLOROETHANE (EDC)	0.5	UG/L	< 0.5			
-DICHLOROETHANE	0.2	UG/L	2.9			
-1,2-DICHLOROETHENE	0.2	UG/L	< 0.2			
is-1,2-DICHLOROETHENE	1.0	UG/L	< 1.0			
-DICHLOROPROPANE	0.2	UG/L	< 0.2			
1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2			
is-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2			
THYLENE CHLORIDE	2.0	UG/L	< 2.0			
2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.5			
TRACHLOROETHENE	0.5	UG/L	3.0			
,1-TRICHLOROETHANE	1.0	UG/L	< 1.0			
,2-TRICHLOROETHANE	0.2	UG/L	< 0.2			
CHLOROETHENE	0.3	UG/L	< 0.3			
ICHLOROFLUOROMETHANE	0.2	UG/L	< 0.2			
YL CHLORIDE	0.5	UG/L	< 0.5			

RRORATE:
OMOCHLOROMETHANE (%) 93
RRORATE LIMITS (71 - 126)

EMIST NOTES:

TE 1: Detection Limit for Carbon Tetrachloride adjusted due to an interference present that colelutes h this compound.



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Albuquerque, New Mexico 87107
Phone (505) 344-3777
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GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

ST : EPA 8021
ANK I.D. : 110701
IENT : PUBLIC SERVICE COMPANY
OJECT # : REMEDIATION
OJECT NAME : PERSON STATION
PINNACLE I.D. : 111024
DATE EXTRACTED : N/A
DATE ANALYZED : 11/07/01
SAMPLE MATRIX : AQUEOUS

PARAMETER	UNITS	
MONODICHLOROMETHANE	UG/L	<0.2
MONOFORM	UG/L	<0.5
MONOMETHANE	UG/L	<1.0
ARBON TETRACHLORIDE	UG/L	<0.4
MONOBENZENE	UG/L	<0.5
MONOETHANE	UG/L	<0.5
MONOFORM	UG/L	<0.5
MONOMETHANE	UG/L	<1.0
MONOCHLOROMETHANE	UG/L	<0.2
-DIBROMOETHANE (EDB)	UG/L	<0.2
-DICHLOROBENZENE	UG/L	<0.5
-DICHLOBENZENE	UG/L	<0.5
-DICHLOBENZENE	UG/L	<0.5
-DICHLOETHANE	UG/L	<0.3
-DICHLOETHANE (EDC)	UG/L	<0.5
-DICHLOETHENE	UG/L	<0.2
-1,2-DICHLOETHENE	UG/L	<0.2
-is-1,2-DICHLOETHENE	UG/L	<1.0
-DICHLOPROPANE	UG/L	<0.2
-1,3-DICHLOPROPENE	UG/L	<0.2
-is-1,3-DICHLOPROPENE	UG/L	<0.2
-ETHYLENE CHLORIDE	UG/L	<2.0
-2,2-TETRACHLOROETHANE	UG/L	<0.5
-TRACHLOETHENE	UG/L	<0.5
-1-TRICHLOETHANE	UG/L	<1.0
-2-TRICHLOETHANE	UG/L	<0.2
-CHLOETHENE	UG/L	<0.3
-CHLOROFLUOROMETHANE	UG/L	<0.2
-YL CHLORIDE	UG/L	<0.5

PROGATE:
MONOCHLOROMETHANE (%)
PROGATE LIMITS (71 - 126) 107

EMIST NOTES:
TE 1: Detection Limit for Carbon Tetrachloride adjusted due to an interference present that coelutes
h compound.



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GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

ST	: EPA 8021	PINNACLE I.D.	: 111024
ANK I.D.	: 110801	DATE EXTRACTED	: N/A
IENT	: PUBLIC SERVICE COMPANY	DATE ANALYZED	: 11/08/01
OBJECT #	: REMEDIATION	SAMPLE MATRIX	: AQUEOUS
OBJECT NAME	: PERSON STATION		

PARAMETER	UNITS	
OMODICHLOROMETHANE	UG/L	<0.2
OMOFORM	UG/L	<0.5
OMOMETHANE	UG/L	<1.0
RBON TETRACHLORIDE	UG/L	<0.4
LOROBENZENE	UG/L	<0.5
LOROETHANE	UG/L	<0.5
LOROFORM	UG/L	<0.5
LROMETHANE	UG/L	<1.0
ROMOCHLOROMETHANE	UG/L	<0.2
DIBROMOETHANE (EDB)	UG/L	<0.2
DICHLOROBENZENE	UG/L	<0.5
DICHLOROBENZENE	UG/L	<0.5
DICHLOROBENZENE	UG/L	<0.5
DICHLOROETHANE	UG/L	<0.3
DICHLOROETHANE (EDC)	UG/L	<0.5
DICHLOROETHENE	UG/L	<0.2
1,2-DICHLOROETHENE	UG/L	<0.2
s-1,2-DICHLOROETHENE	UG/L	<1.0
DICHLOROPROPANE	UG/L	<0.2
1,3-DICHLOROPROPENE	UG/L	<0.2
s-1,3-DICHLOROPROPENE	UG/L	<0.2
ETHYLENE CHLORIDE	UG/L	<2.0
2,2-TETRACHLOROETHANE	UG/L	<0.5
TRACHLOROETHENE	UG/L	<0.5
1-TRICHLOROETHANE	UG/L	<1.0
2-TRICHLOROETHANE	UG/L	<0.2
CHLOROETHENE	UG/L	<0.3
CHLOROFLUOROMETHANE	UG/L	<0.2
YL CHLORIDE	UG/L	<0.5

PROGATE:
ROMOCHLOROMETHANE (%)
PROGATE LIMITS (71 - 126) 98

MIST NOTES:

TE 1: Detection Limit for Carbon Tetrachloride adjusted due to an interference present that coelutes
1 compound.



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Albuquerque, New Mexico 87107
Phone (505) 344-3777
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GAS CHROMATOGRAPHY - QUALITY CONTROL
MSMSD

EST : EPA 8021 MODIFIED
MSMSD # : 110801
CLIENT : PUBLIC SERVICE COMPANY
PROJECT # : REMEDIATION
PROJECT NAME : PERSON STATION

PINNACLE I.D. : 111024
DATE EXTRACTED : N/A
DATE ANALYZED : 11/08/01
SAMPLE MATRIX : AQUEOUS
UNITS : UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
CHLOROBENZENE	<0.5	10.0	10.8	108	11.2	112	4	(87 - 124)	20
1,1-DICHLOROETHENE	<0.2	10.0	9.7	97	9.3	93	4	(80 - 120)	20
1,2-DICHLOROETHENE	<0.3	10.0	11.1	111	11.1	111	0	(89 - 127)	20

CHEMIST NOTES:

A

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

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

SEVERN**TRENT****SERVICES****STL Pensacola**

LOG NO: C1-11149

Received: 06 NOV 01

Reported: 21 NOV 01

Ms. Jacinta Tenorio
Pinnacle Laboratories
2709-D Pan American Freeway Northeast
Albuquerque, NM 87107

Project: 111024, PNM-PERSON STATION

Sampled By: Client

Code: 103111121

Page 1

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
11149-1	SURGE TANK DISCHARGE 111024-14	11-05-01/13:19
PARAMETER	11149-1	
Sulfate as SO4 (375.4), mg/l	510	
Dilution Factor	25	
Analysis Date	11.09.01	
Batch ID	SEW139	
Analyst	BE	

SEVERN

TRENT

SERVICES

STL Pensacola

LOG NO: C1-11149

Received: 06 NOV 01

Reported: 21 NOV 01

Ms. Jacinta Tenorio
Pinnacle Laboratories
2709-D Pan American Freeway Northeast
Albuquerque, NM 87107

Project: 111024, PNM-PERSON STATION

Sampled By: Client

Code: 103111121

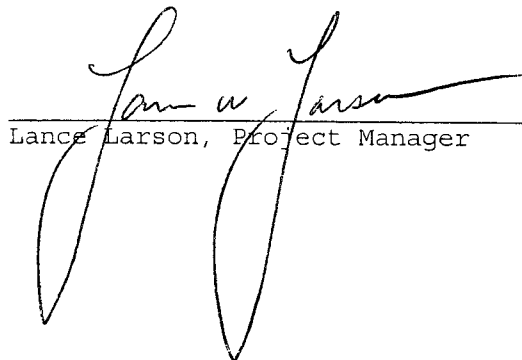
Page 2

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED			
11149-2	Method Blank				
11149-3	Lab Control Standard % Recovery				
11149-4	Matrix Spike % Recovery				
11149-5	Matrix Spike Duplicate % Recovery				
PARAMETER	11149-2	11149-3	11149-4	11149-5	
Sulfate as SO ₄ (375.4), mg/l	<5.0	90 %	120 %	112 %	
Dilution Factor	1	---	---	---	
Analysis Date	11.09.01	---	---	---	
Batch ID	SEW139	SEW139	SEW139	SEW139	
Analyst	BE	---	---	---	

These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the STL Project Manager who signed this test report.

See the Project Sample Inspection Form (PSIF) to determine if a sample was received that did not meet EPA requirements for sample collection, preservation, or holding time.


Lance Larson, Project Manager

Final Page Of Report

Data Qualifiers for Final Report

B1	The analyte was detected in the associated method blank (sample itself is flagged even though sample is ND).
B2	The analyte was detected in the sample(s) and in the associated method blank analyzed on the day samples were extruded; however, this analyte was not detected in the blank analyzed with the samples.
B3	The analyte was found in the associated blank as well as in the associated sample(s) (qualifier is applied to the sample, not to the blank).
B4	Sample results were corrected due to contaminants in Fractionation Blank
D	Diluted out (surrogate or spike due to sample dilution)
E	Compound concentration exceeds the upper calibration range of the instrument.
F	The reported value is < STL Pensacola RL and ≥ the STL Pensacola MDL; therefore, the quantitation is estimation.
G	Sample and/or duplicate result is at or below 5 X (times) the STL Reporting Limit and the absolute difference between the sample and duplicate result is at or below the STL reporting limit; therefore, the results are "in control".
H1	Sample and/or duplicate is below 5 X (times) the STL Reporting Limit and the absolute difference between the results exceeds the STL Reporting Limit; therefore, the results are "out of control"
H2	Sample and duplicate (or MS and MSD) RPD is above control limit.
J (description)	The analyte was positively identified, the quantitation may be an estimation
J4	(For positive results) Temperature limits exceeded ($\leq 2^{\circ}\text{C}$ or $\geq 6^{\circ}\text{C}$), non-reportable for NPDES compliance monitoring.
J6	(For positive results) LCS or Surrogate %R is > upper control limit (UCL), results may be biased high
J8	Matrix spike and post spike recoveries are outside control limits. See out of Control Events/Corrective Action Form.
J9	(For positive results) LCS or Surrogate %R is < lower control limit (LCL), results may be biased low
M1	A matrix effect was present (¹ sample, MS or MSD was analyzed twice to confirm surrogate/spike failure, ² sample and/or MS/MSD chromatogram(s) had interfering peaks, ³ sample result was > 4 X spike added, ⁴ metals serial dilution was performed, or ⁵ metals post spike is < 40% R)
M2	The MS and/or MSD %R or RPD was outside upper or lower control limits; not necessarily due to matrix effect.
N/C	Not Calculable; Sample spiked is > 4X spike concentration (may also use this flag in place of negative numbers)
NH	Sample and duplicate results are "out of control". The sample is nonhomogeneous.
NoMS	Not enough sample provided to prepare and/or analyze a method-required matrix spike (MS) and/or duplicate (MSD)
Q	The analytical (post digestion) spike is reported due to the percent recovery being outside limits on the matrix (pre-digestion) spike.
R (description)	The quantitation may be an estimation.
R1	(For nondetects) Temperature limits exceeded ($\leq 2^{\circ}\text{C}$ or $\geq 6^{\circ}\text{C}$); non-reportable for NPDES compliance monitoring
R2	Improper preservation, no preservative present or insufficient amounts of preservative in sample upon receipt, non-reportable for NPDES compliance monitoring
R3	Improper preservation, incorrect preservative present in sample upon receipt, non-reportable for NPDES compliance
R4	Holding time exceeded, non-reportable for NPDES compliance monitoring.
R5	Sample collection requirements not met, see case narrative.
R6	LCS or surrogate %R is < LCL and analyte is not detected or surrogate %R is < 10% for detects/nondetects.
R7	Internal standard area outside -50% to +100% of calibration verification standard.
R8	Initial calibration or any calibration verification exceeds acceptance criteria.
R9	Not filtered and preserved at time of collection.
R10	Headspace > 1/4" in diameter in volatile vials, non-reportable for NPDES compliance monitoring
R11	Samples were filtered and preserved within 4 hours of collection.
R12	Analysis performed outside the 12-hour tune or not within tune criteria.
S1	The Method of Standard Additions (MSA) has been performed on this sample.
S2	Incorrect sample amount was submitted to the laboratory for analysis
S3 (Flashpoint)	This method is not designed for solids and the results may not be accepted by any regulator for such purposes.
T	Second-column or detector confirmation exceeded the SW-846 criteria of 40% RPD for this compound.
TIC	The compound is not within the initial calibration curve. It is searched for qualitatively or as a Tentatively Identified Compound.
U	The analyte was analyzed for but not detected (at or above the RL or the MDL, whichever is entered next to the "U" value. Value for result will never be below the MDL)
W	Post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is less than 50% spike absorbance.
@	Adjusted reporting limit due to sample composition, not due to overcal (dilution prior to digestion and/or analysis).
#	Elevated reporting limit due to insufficient sample size
1 pt	The compound has been quantitated against a one point calibration.
* (Metals & Wet Chem)	Elevated reporting limit due to matrix interference (dilution prior to digestion and/or analysis)

STL PENSACOLA State Certifications

Alabama Department of Environmental Management, Laboratory ID No. 40150 (Drinking Water by Reciprocity with FL), expires 06/30/02

Arizona Department of Health Services, Lab ID No. AZ0589 (Hazardous Waste & Wastewater), expires 01/12/02

Arkansas Department of Pollution Control and Ecology, (No Laboratory ID No. assigned by state) (Environmental), expires 02/07/02

State of California, Department of Health Services, Laboratory ID No. 01128CA (Hazardous Waste and Wastewater), expires 03/31/02

State of Connecticut, Department of Health Services, Connecticut Lab Approval No. PH-0697 (D W, H W and Wastewater), expires 09/30/01

Delaware Health & Social Services, Division of Public Health, Laboratory ID No. FL094 (Drinking Water by Reciprocity with FL) Extension granted

Florida DOH Laboratory ID No. E81010 (Drinking Water, Hazardous Waste and Wastewater), expires 06/30/02

Florida DEP/DOH CompQAP # 980156

Florida, Radioactive Materials License No. G0733-1, no expiration date assigned

Foreign Soil Permit, Permit No. S-37599

Kansas Department of Health & Environment, Laboratory ID No. E10253 (Wastewater and Hazardous Waste), expires 10/31/01

Commonwealth of Kentucky, Natural Resources and Environmental Protection Cabinet, Laboratory ID No. 90043 (Drinking Water), expires 12/31/01

State of Louisiana, DHH, Office of Public Health Division of Laboratories, Laboratory ID No. LA000017 (Drinking Water), expires 12/31/01

Louisiana Department of Environmental Quality, LELAP, Laboratory ID No. 02075, Agency Interest ID 30748 (Environmental), expires 6/30/02

State of Maryland, DH&MH Laboratory ID No. 233 (Drinking Water by Reciprocity with Florida), expires 09/30/02

Commonwealth of Massachusetts, DEP, Laboratory ID No. M-FL094 (Wastewater), expires 06/30/02

State of Michigan, Bureau of E&OccH, Laboratory ID No. 9912 (Drinking Water by Reciprocity with Florida), expires 06/30/02

New Hampshire DES ELAP, Laboratory ID No. 250501 (Wastewater), expires 08/16/02

State of New Jersey, Department of Env. Protection & Energy, Laboratory ID No. 49006 (Wastewater and Hazardous Waster), expires 06/30/01

New York State, Department of Health, Laboratory ID No. 11503 (WW and Solids/Hazardous Waste), expires 03/31/02

North Carolina Department of Environment & Natural Resources, Laboratory ID No. 314 (Hazardous Waste and Wastewater), expires 12/31/01

North Dakota DH&Consol Labs, Laboratory ID No. R-108 (Wastewater and Hazardous Waste by Reciprocity with Florida), expires 06/30/02

State of Oklahoma, Oklahoma Department of Environmental Quality, Laboratory ID No. 9810 (Hazardous Waste and Wastewater), expires 08/31/02

Commonwealth of Pennsylvania, Department of Environmental Resources, Laboratory ID No. 68-467 (Drinking Water), expires 12/01/01

South Carolina DH&EC, Laboratory ID No. 96026 (Wastewater & Solids/Hazardous Waste by Reciprocity with FL), expires 06/30/02

Tennessee Department of Health & Environment, Laboratory ID No. 02907 (Drinking Water), expires 08/03/04

Virginia Department of General Services, Laboratory ID No. 00008 (Drinking Water by Reciprocity with FL), expires 06/30/02

State of Washington, Department of Ecology, Laboratory ID No. C282 (Hazardous Waste and Wastewater), expires 09/14/01

West Virginia Division of Env., Office of Water Resources, Laboratory ID No. 136 (Haz Waste and Wastewater Reciprocity FL), expires 12/31/01

American Industrial Hygiene Association (AIHA) Accredited Laboratory, Laboratory ID No. 100704, expires 04/01/04

\\word\certlist\condcert.lst revised 09/13/01

STL Pensacola PROJECT SAMPLE INSPECTION FORM



Lab Order #: C111149 Date Received: 11-6-01

- | | |
|--|---|
| <p>1. Was there a Chain of Custody? <input checked="" type="radio"/> Yes <input type="radio"/> No*</p> <p>2. Was Chain of Custody properly filled out and relinquished? <input checked="" type="radio"/> Yes <input type="radio"/> No*</p> <p>3. Were samples received cold? <input checked="" type="radio"/> Yes <input type="radio"/> No* N/A
(Criteria: 2° - 6°C: STL-SOP)</p> <p>4. Were all samples properly labeled and identified? <input checked="" type="radio"/> Yes <input type="radio"/> No*</p> <p>5. Did samples require splitting or compositing*? Yes* <input checked="" type="radio"/> No
Req By: PM Client Other*</p> <p>6. Were samples received in proper containers for analysis requested? <input checked="" type="radio"/> Yes <input type="radio"/> No*</p> <p>7. Were all sample containers received intact? <input checked="" type="radio"/> Yes <input type="radio"/> No*</p> | <p>8. Were samples checked for preservative? <i>(Check pH of all H₂O requiring preservative (STL-PN SOP 917) except VOA vials that require zero headspace)*</i> Yes <input type="radio"/> No* <input checked="" type="radio"/> N/A</p> <p>9. Is there sufficient volume for analysis requested? <input checked="" type="radio"/> Yes <input type="radio"/> No* N/A (Can)</p> <p>10. Were samples received within Holding Time? <i>(REFER TO STL-SOP 1040)</i> <input checked="" type="radio"/> Yes <input type="radio"/> No*</p> <p>11. Is Headspace visible > ¼" in diameter in VOA vials? * If any headspace is evident, comment in out-of-control section. Yes* <input type="radio"/> No <input checked="" type="radio"/> N/A</p> <p>12. If sent, were matrix spike bottles returned? Yes <input type="radio"/> No* <input checked="" type="radio"/> N/A</p> <p>13. Was Project Manager notified of problems? (initials: _____) Yes <input type="radio"/> No* <input checked="" type="radio"/> N/A</p> |
|--|---|

Airbill Number(s): 1X 878 168 01
4367 1398

Shipped By: UPS

Cooler Number(s): client

Shipping Charges: N/A

Cooler Weight(s): 17#

Cooler Temp(s) (°C): 2°
(CCK3)
(LIST THERMOMETER NUMBER(S) FOR VERIFICATION)

Out of Control Events and Inspection Comments:

(USE BACK OF PSIF FOR ADDITIONAL NOTES AND COMMENTS)

Inspected By: DMH Date: 11-6-01

Logged By: DL Date: 11-6-01

* Note all Out-of-Control and/or questionable events on Comment Section of this form. For holding times, the analytical department will flag immediate hold time samples (pH, Dissolved O₂, Residual CL) as out of hold time, therefore, these samples will not be documented on this PSIF.

If Other, note who requested the splitting or compositing of samples on the Comment Section of this form. All volatile samples requested to be split or composited must be done in the Volatile Lab. Document: "Volatile sample values may be compromised due to sample splitting (compositing)"

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 (STL-SOP 938, section 2.2.9).

* According to EPA, ¼" of headspace is allowed in 40 ml vials requiring volatile analysis, however, STL makes it policy to record any headspace as out-of-control (STL-SOP 938, section 2.2.12).



Pinnacle Laboratories, Inc.

Interlab Chain of Custody

Date: 11/5 Page: 1 of 1

Network Project Manager: Jacinta A. Tenorio					ANALYSIS REQUEST																				
Pinnacle Laboratories, Inc. 2709-D Pan American Freeway, NE Albuquerque, New Mexico 87107 (505) 344-3777 Fax (505) 344-4413					Metals (8) RCRA	RCRA TCLP METALS	Metals-13 PP List	Metals-TAL (23 METALS)	TOX	TOC	Gen Chemistry: SO4	Oil and Grease	Volatile Organics GC/MS (8260)	BOD	COD	PESTICIDES/PCB (608/8082)	Herbicides (615/8151)	PNA (8310)/8270 SIMS	8240 (TCLP 1311) ZHE	Base/Neutral Acid Compounds GC/MS (625/8270)	URANIUM (ICP-MS)	RADIUM 226+228	Gross Alpha/Beta	TO-14	NUMBER OF CONTAINERS
C111149																									
SAMPLE ID	DATE	TIME	MATRIX	LAB ID																					
Surge Tank Discharge	11/5	1319	AQ								X														

PROJECT INFORMATION				SAMPLE RECEIPT		SAMPLES SENT TO:		RELINQUISHED BY: 1.		RELINQUISHED BY: 2.	
PROJECT #:	111024			Total Number of Containers		PENSACOLA - STL-FL	X	Signature:	Time:	Signature:	Time:
PROJ. NAME:	PNM			Chain of Custody Seals		ESL - OR		Signature:	Time:	Signature:	Time:
QC LEVEL:	STD	IV		Received Intact?		STL - CT		Signature:	Time:	Signature:	Time:
QC REQUIRED:	MS	MSD	BLANK	Received Good Cond./Cold		ATEL - AZ		Signature:	Time:	Signature:	Time:
TAT:	STANDARD	RUSH!!		LAB NUMBER:		ATEL - MARION		Signature:	Time:	Signature:	Time:
						ATEL - MELMORE		Signature:	Time:	Signature:	Time:
DUE DATE:	11/19			COMMENTS:		BARRINGER		Signature:	Time:	Signature:	Time:
RUSH SURCHARGE:	—					ENVIRO TEST LABS		Signature:	Time:	Signature:	Time:
CLIENT DISCOUNT:	—					WCAS		Signature:	Time:	Signature:	Time:
SPECIAL CERTIFICATION						WOHL		Signature:	Time:	Signature:	Time:
REQUIRED: YES	NO							Signature:	Time:	Signature:	Time:

SHADED AREAS ARE FOR LAB USE ONLY

PLEASE FILL THIS FORM IN COMPLETELY.

[illegible]

PROJECT INFORMATION		PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS		RELINQUISHED BY:		RELINQUISHED BY:																											
PROJ. NO.: Remediation		(RUSH) <input type="checkbox"/> 24hr <input type="checkbox"/> 48hr <input type="checkbox"/> 72hr <input type="checkbox"/> 1 WEEK (NORMAL) <input checked="" type="checkbox"/>		Signature: <i>all at</i> Time: <i>1430</i>		Signature: _____ Time: _____																											
PROJ. NAME: Person Station		CERTIFICATION REQUIRED: <input type="checkbox"/> NM <input type="checkbox"/> SDWA <input type="checkbox"/> OTHER		Printed Name: _____ Date: _____		Printed Name: _____ Date: _____																											
P.O. NO.:		METHANOL PRESERVATION <input type="checkbox"/>		Company: <i>pnw</i>		Company: _____																											
SHIPPED VIA:		COMMENTS: FIXED FEE <input type="checkbox"/> <i>4 copies Please</i>		See reverse side (Force Majeure)																													
<table border="1"> <thead> <tr> <th colspan="2">SAMPLE RECEIPT</th> </tr> </thead> <tbody> <tr> <td>NO. CONTAINERS</td> <td><i>14</i></td> </tr> <tr> <td>CUSTODY SEALS</td> <td><i>Y/N</i> <input checked="" type="checkbox"/> <i>NA</i></td> </tr> <tr> <td>RECEIVED INTACT</td> <td><i>YES</i></td> </tr> <tr> <td>QUANTITY</td> <td><i>150</i></td> </tr> </tbody> </table>		SAMPLE RECEIPT		NO. CONTAINERS	<i>14</i>	CUSTODY SEALS	<i>Y/N</i> <input checked="" type="checkbox"/> <i>NA</i>	RECEIVED INTACT	<i>YES</i>	QUANTITY	<i>150</i>	PLEASE PROVIDE DATA ON DISKETTE AS WELL AS EXTRA HARD COPY TO RON JOHNSON MS-0408 <i>Direct from Field</i>		<table border="1"> <thead> <tr> <th colspan="2">RECEIVED BY:</th> </tr> </thead> <tbody> <tr> <td>Signature: _____</td> <td>Time: _____</td> </tr> <tr> <td>Printed Name: _____</td> <td>Date: _____</td> </tr> <tr> <td colspan="2">Company: _____</td> </tr> </tbody> </table>		RECEIVED BY:		Signature: _____	Time: _____	Printed Name: _____	Date: _____	Company: _____		<table border="1"> <thead> <tr> <th colspan="2">RECEIVED BY: (LAB)</th> </tr> </thead> <tbody> <tr> <td>Signature: <i>Francine Torio</i></td> <td>Time: <i>1435</i></td> </tr> <tr> <td>Printed Name: <i>Francine Torio</i></td> <td>Date: <i>11/5/01</i></td> </tr> <tr> <td colspan="2">Pinnacle Laboratories Inc.</td> </tr> </tbody> </table>		RECEIVED BY: (LAB)		Signature: <i>Francine Torio</i>	Time: <i>1435</i>	Printed Name: <i>Francine Torio</i>	Date: <i>11/5/01</i>	Pinnacle Laboratories Inc.	
SAMPLE RECEIPT																																	
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QUANTITY	<i>150</i>																																
RECEIVED BY:																																	
Signature: _____	Time: _____																																
Printed Name: _____	Date: _____																																
Company: _____																																	
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Signature: <i>Francine Torio</i>	Time: <i>1435</i>																																
Printed Name: <i>Francine Torio</i>	Date: <i>11/5/01</i>																																
Pinnacle Laboratories Inc.																																	



Pinnacle Laboratories Inc.

CHAIN OF CUSTODY

DATE: 11-5-01 PAGE: 2 OF 2

PLI Accession #: 111024

SHADED AREAS ARE FOR LAB USE ONLY.

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: CHUCK ARATER

COMPANY: PUBLIC SERVICE COMPANY OF NEW MEXICO

ADDRESS: ALVARADO SQUARE - ER16
ALBUQUERQUE, NM 87158

PHONE: (505) 241-4744

FAX: (505) 241-2487

BILL TO: SAME

COMPANY:

ADDRESS: ATTN: CHUCK ARATER

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1) TRPH (MOD.8015) Diesel/Direct Inject	(M8015) Gas/Purge & Trap	8021 (BTEX)/8015 (Gasoline) MTBE	8021 (BTEX) <input type="checkbox"/> MTBE <input type="checkbox"/> TMB <input type="checkbox"/> PCE	8021 (TCL)	8021 (EDX)	8021 (HALO)	8021 (CUST)	504.1 EDB <input type="checkbox"/> /DBCP <input type="checkbox"/>	Total Sol	8260 (TCL) Volatile Organics	8260 (Full) Volatile Organics	8260 (CUST) Volatile Organics	8260 (Landfill) Volatile Organics	Pesticides /PCB (608/8081/8082)	Herbicides (615/8151)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Polynuclear Aromatics (610/8310/8270-SIMS)	General Chemistry:	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311) Metals:	NUMBER OF CONTAINERS
VEW INFLUENT	11-5	1327	AQ	108							X																	3
PSMW-16 INFLUENT	11-5	1330		108							X																	3
EW-1 INFLUENT	11-5	1329		110							X																	3
PSMW 24,25,26 INFLUENT	11-5	1331		111							X																	3
EW-3	11-5	1333		112							X																	3
EW-2	11-5	1334		113							X																	3
Surge Tank Discharge	11-5	1318	✓	114									X															1

PROJECT INFORMATION

PROJ. NO.: Remediation

PROJ. NAME: Person Station

P.O. NO.:

SHIPPED VIA:

SAMPLE RECEIPT

NO. CONTAINERS

CUSTODY SEALS

RECEIVED INTACT

BLUE/ICE

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK

(NORMAL) ☒

CERTIFICATION REQUIRED: ☐ NM ☐ SDWA ☐ OTHER

METHANOL PRESERVATION ☐

COMMENTS: FIXED FEE ☐

3 copies Please

PLEASE PROVIDE DATA ON DISKETTE AS WELL AS EXTRA HARD COPY TO RON JOHNSON MS-0408

RELINQUISHED BY:

1.

Signature:

Time:

Printed Name:

Date:

Company:

See reverse side (Force Majeure)

RECEIVED BY:

1.

Signature:

Time:

Printed Name:

Date:

Company:

RELINQUISHED BY:

2.

Signature:

Time:

Printed Name:

Date:

Company:

RECEIVED BY: (LAB)

2.

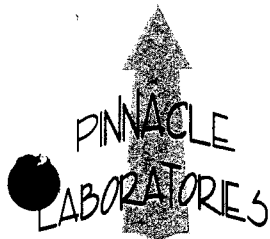
Signature:

Time:

Printed Name:

Date:

Pinnacle Laboratories Inc.



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

PL I.D. 112047

December 28, 2001

Public Service Co of NM
Alvarado Square MS2104
Albuquerque, NM 87158

Project Name/Number: PERSON STATION REMEDIATION

Attention: Chuck Arater

On 12/12/01, Pinnacle Laboratories Inc., (ADHS License No. AZ0592 pending), 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 8021 analyses were performed by Pinnacle Laboratories, Inc. Albuquerque, NM.

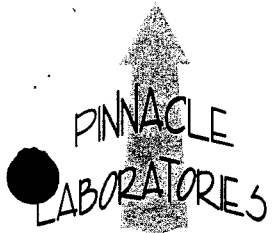
All other analyses were performed by Severn Trent Laboratories Inc. Pensacola, FL.

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

H. Mitchell Rubenstein, Ph.D.
General Manager

MR:jt

Enclosure



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

CLIENT	: PUBLIC SERVICE COMPANY	PINNACLE ID	: 112047
PROJECT #	: REMEDIATION	DATE RECEIVED	: 12/12/01
PROJECT NAME	: PERSON STATION	REPORT DATE	: 12/28/01
PINNACLE		DATE	
ID #	CLIENT DESCRIPTION	MATRIX	COLLECTED
12047 - 01	GTS-INFLUENT	AQUEOUS	12/12/01
12047 - 02	INFLUENT TANK EFFLUENT EAST	AQUEOUS	12/12/01
12047 - 03	GTS-GAC EFFLUENT EAST	AQUEOUS	12/12/01
12047 - 04	GTS-GAC EFFLUENT WEST	AQUEOUS	12/12/01
12047 - 05	UNM EAST RESERVOIR	AQUEOUS	12/12/01
12047 - 06	UNM WEST RESERVOIR	AQUEOUS	12/12/01
12047 - 07	FINAL GAC	AQUEOUS	12/12/01
12047 - 08	TRIP BLANK	AQUEOUS	12/12/01
12047 - 09	VEW INFLUENT	AQUEOUS	12/12/01
12047 - 10	PSMW-16 INFLUENT	AQUEOUS	12/12/01
12047 - 11	EW-1 INFLUENT	AQUEOUS	12/12/01
12047 - 12	PSMW 24,25,26 INFLUENT	AQUEOUS	12/12/01
12047 - 13	EW-3	AQUEOUS	12/12/01
12047 - 14	EW-2	AQUEOUS	12/12/01
12047 - 15	SURGE TANK DISCHARGE	AQUEOUS	12/12/01



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Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS

TEST : 8021 HALO
CLIENT : PUBLIC SERVICE COMPANY
PROJECT # : REMEDIATION
PROJECT NAME : PERSON STATION

PINNACLE I.D.: 112047

SAMPLE		MATRIX	DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.		SAMPLED	EXTRACTED	ANALYZED	
01	GTS-INFLUENT	AQUEOUS	12/12/01	NA	12/12/01	1
02	INFLUENT TANK EFFLUENT EAST	AQUEOUS	12/12/01	NA	12/12/01	1
03	GTS-GAC EFFLUENT EAST	AQUEOUS	12/12/01	NA	12/12/01	1

PARAMETER	DET. LIMIT	UNITS	GTS-INFLUENT	INFLUENT TANK EFFLUENT EAST	GTS-GAC EFFLUENT EAST
BROMODICHLOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
BROMOFORM	0.5	UG/L	< 0.5	< 0.5	< 0.5
BROMOMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
CARBON TETRACHLORIDE	0.2	UG/L	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
CHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
CHLOROFORM	0.5	UG/L	< 0.5	< 0.5	0.7
CHLOROMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
DIBROMOCHLOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,1-DIBROMOETHANE (EDB)	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,1-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	0.3	UG/L	2.4	2.1	2.0
1,2-DICHLOROETHANE (EDC)	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHENE	0.2	UG/L	4.9	3.2	2.6
cis-1,2-DICHLOROETHENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
trans-1,2-DICHLOROETHENE	1.0	UG/L	< 1.0	< 1.0	< 1.0
1,2-DICHLOROPROPANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
cis-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
trans-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
METHYLENE CHLORIDE	2.0	UG/L	< 2.0	< 2.0	< 2.0
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
TETRACHLOROETHENE	0.5	UG/L	8.8	7.4	1.6
1,1,1-TRICHLOROETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
1,1,2-TRICHLOROETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
TRICHLOROETHENE	0.3	UG/L	1.9	< 0.3	< 0.3
TRICHLOROFLUOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.5	< 0.5	< 0.5

SURROGATE:

BROMOCHLOROMETHANE (%)
SURROGATE LIMITS

(71 - 126)

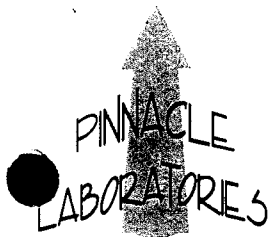
93

80

93

CHEMIST NOTES:

N/A



2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
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GAS CHROMATOGRAPHY RESULTS

TEST : 8021 HALO
CLIENT : PUBLIC SERVICE COMPANY
PROJECT # : REMEDIATION
PROJECT NAME : PERSON STATION

PINNACLE I.D.: 112047

SAMPLE						
ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	GTS-GAC EFFLUENT WEST	AQUEOUS	12/12/01	NA	12/12/01	1
05	UNM EAST RESERVOIR	AQUEOUS	12/12/01	NA	12/12/01	1
06	UNM WEST RESERVOIR	AQUEOUS	12/12/01	NA	12/12/01	1

PARAMETER	DET. LIMIT	UNITS	GTS-GAC EFFLUENT WEST	UNM EAST RESERVOIR	UNM WEST RESERVOIR
BROMODICHLOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
BROMOFORM	0.5	UG/L	< 0.5	< 0.5	< 0.5
BROMOMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
CARBON TETRACHLORIDE	0.2	UG/L	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
CHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
CHLOROFORM	0.5	UG/L	< 0.5	< 0.5	< 0.5
CHLOROMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
DIBROMOCHLOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,2-DIBROMOETHANE (EDB)	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,1-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	0.3	UG/L	2.0	< 0.3	< 0.3
1,2-DICHLOROETHANE (EDC)	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHENE	0.2	UG/L	4.7	< 0.2	< 0.2
cis-1,2-DICHLOROETHENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
trans-1,2-DICHLOROETHENE	1.0	UG/L	< 1.0	< 1.0	< 1.0
1,2-DICHLOROPROPANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
cis-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
trans-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
METHYLENE CHLORIDE	2.0	UG/L	< 2.0	< 2.0	< 2.0
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
TETRACHLOROETHENE	0.5	UG/L	5.2	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
1,1,2-TRICHLOROETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
TRICHLOROETHENE	0.3	UG/L	< 0.3	< 0.3	< 0.3
TRICHLOROFLUOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.5	< 0.5	< 0.5

SURROGATE:
BROMOCHLOROMETHANE (%)
SURROGATE LIMITS

(71 - 126)

73 81 104

CHEMIST NOTES:
N/A



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

GAS CHROMATOGRAPHY RESULTS

TEST : 8021 HALO
CLIENT : PUBLIC SERVICE COMPANY
PROJECT # : REMEDIATION
PROJECT NAME : PERSON STATION

PINNACLE I.D.: 112047

SAMPLE		MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
ID. #	CLIENT I.D.					
07	FINAL GAC	AQUEOUS	12/12/01	NA	12/12/01	1
08	TRIP BLANK	AQUEOUS	12/12/01	NA	12/12/01	1
09	VEW INFLUENT	AQUEOUS	12/12/01	NA	12/13/01	1

PARAMETER	DET. LIMIT	UNITS	FINAL GAC	TRIP BLANK	VEW INFLUENT
BROMODICHLOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
BROMOFORM	0.5	UG/L	< 0.5	< 0.5	< 0.5
BROMOMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
CARBON TETRACHLORIDE	0.2	UG/L	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
CHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
CHLOROFORM	0.5	UG/L	< 0.5	< 0.5	< 0.5
CHLOROMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
DIBROMOCHLOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,2-DIBROMOETHANE (EDB)	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	0.3	UG/L	0.7	< 0.3	2.3
1,2-DICHLOROETHANE (EDC)	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHENE	0.2	UG/L	< 0.2	< 0.2	0.2
cis-1,2-DICHLOROETHENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
trans-1,2-DICHLOROETHENE	1.0	UG/L	< 1.0	< 1.0	< 1.0
1,2-DICHLOROPROPANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
cis-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
trans-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
METHYLENE CHLORIDE	2.0	UG/L	< 2.0	< 2.0	< 2.0
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
TETRACHLOROETHENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
1,1,2-TRICHLOROETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
TRICHLOROETHENE	0.3	UG/L	< 0.3	< 0.3	< 0.3
TRICHLOROFLUOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.5	< 0.5	< 0.5

SURROGATE:

BROMOCHLOROMETHANE (%)
SURROGATE LIMITS

(71 - 126)

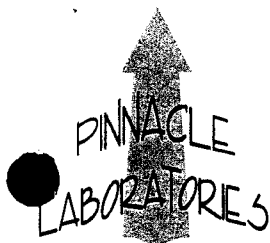
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86

92

CHEMIST NOTES:

N/A



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

GAS CHROMATOGRAPHY RESULTS

TEST : 8021 HALO
CLIENT : PUBLIC SERVICE COMPANY
PROJECT # : REMEDIATION
PROJECT NAME : PERSON STATION

PINNACLE I.D.: 112047

SAMPLE		MATRIX	DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.		SAMPLED	EXTRACTED	ANALYZED	FACTOR
10	PSMW-16 INFLUENT	AQUEOUS	12/12/01	NA	12/13/01	1
11	EW-1 INFLUENT	AQUEOUS	12/12/01	NA	12/13/01	1
12	PSMW 24,25,26 INFLUENT	AQUEOUS	12/12/01	NA	12/13/01	1

PARAMETER	DET. LIMIT	UNITS	PSMW-16 INFLUENT	EW-1 INFLUENT	PSMW 24,25,26 INFLUENT
BROMODICHLOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
BROMOFORM	0.5	UG/L	< 0.5	< 0.5	< 0.5
BROMOMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
CARBON TETRACHLORIDE	0.2	UG/L	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
CHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
CHLOROFORM	0.5	UG/L	< 0.5	< 0.5	< 0.5
CHLOROMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
DIBROMOCHLOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,2-DIBROMOETHANE (EDB)	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,1-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	0.3	UG/L	3.2	2.4	< 0.3
1,2-DICHLOROETHANE (EDC)	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHENE	0.2	UG/L	6.2	0.8	6.6
cis-1,2-DICHLOROETHENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
trans-1,2-DICHLOROETHENE	1.0	UG/L	< 1.0	< 1.0	< 1.0
1,2-DICHLOROPROPANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
cis-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
trans-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
METHYLENE CHLORIDE	2.0	UG/L	< 2.0	< 2.0	< 2.0
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
TETRACHLOROETHENE	0.5	UG/L	11	2.5	9.0
1,1,1-TRICHLOROETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
1,1,2-TRICHLOROETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
TRICHLOROETHENE	0.3	UG/L	< 0.3	< 0.3	< 0.3
TRICHLOROFLUOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.5	< 0.5	< 0.5

SURROGATE:
BROMOCHLOROMETHANE (%)
SURROGATE LIMITS

(71 - 126)

79

93

78

CHEMIST NOTES:
N/A



2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
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GAS CHROMATOGRAPHY RESULTS

TEST : 8021 HALO
CLIENT : PUBLIC SERVICE COMPANY
PROJECT # :
PROJECT NAME : REMEDIATION
SAMPLE : PERSON STATION

PINNACLE I.D.: 112047

ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
13	EW-3	AQUEOUS	12/12/01	NA	12/13/01	1
14	EW-2	AQUEOUS	12/12/01	NA	12/13/01	1

PARAMETER	DET. LIMIT	UNITS	EW-3	EW-2
BROMODICHLOROMETHANE	0.2	UG/L	< 0.2	< 0.2
BROMOFORM	0.5	UG/L	< 0.5	< 0.5
BROMOMETHANE	1.0	UG/L	< 1.0	< 1.0
CARBON TETRACHLORIDE	0.2	UG/L	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5
CHLOROETHANE	0.5	UG/L	< 0.5	< 0.5
CHLOROFORM	0.5	UG/L	< 0.5	< 0.5
CHLOROMETHANE	1.0	UG/L	< 1.0	< 1.0
DIBROMOCHLOROMETHANE	0.2	UG/L	< 0.2	< 0.2
1,2-DIBROMOETHANE (EDB)	0.2	UG/L	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5
1,1-DICHLOROETHANE	0.3	UG/L	2.5	4.0
1,2-DICHLOROETHANE (EDC)	0.5	UG/L	< 0.5	< 0.5
1,1-DICHLOROETHENE	0.2	UG/L	7.2	2.2
cis-1,2-DICHLOROETHENE	0.2	UG/L	< 0.2	< 0.2
trans-1,2-DICHLOROETHENE	1.0	UG/L	< 1.0	< 1.0
1,2-DICHLOROPROPANE	0.2	UG/L	< 0.2	< 0.2
cis-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2
trans-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2
METHYLENE CHLORIDE	2.0	UG/L	< 2.0	< 2.0
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.5	< 0.5
TETRACHLOROETHENE	0.5	UG/L	13	3.7
1,1,1-TRICHLOROETHANE	1.0	UG/L	< 1.0	< 1.0
1,1,2-TRICHLOROETHANE	0.2	UG/L	< 0.2	< 0.2
TRICHLOROETHENE	0.3	UG/L	< 0.3	< 0.3
TRICHLOROFLUOROMETHANE	0.2	UG/L	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.5	< 0.5

SURROGATE:

BROMOCHLOROMETHANE (%)

85

81

SURROGATE LIMITS

(71 - 126)

CHEMIST NOTES:

N/A



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GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8021	PINNACLE I.D.	: 112047
BLANK I.D.	: 121201	DATE EXTRACTED	: N/A
CLIENT	: PUBLIC SERVICE COMPANY	DATE ANALYZED	: 12/12/01
PROJECT #	: REMEDIATION	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: PERSON STATION		

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	<0.5
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 (%) 106
SURROGATE LIMITS (71 - 126)

CHEMIST NOTES:
N/A



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GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8021	PINNACLE I.D.	: 112047
BLANK I.D.	: 121301	DATE EXTRACTED	: N/A
CLIENT	: PUBLIC SERVICE COMPANY	DATE ANALYZED	: 12/13/01
PROJECT #	: REMEDIATION	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: PERSON STATION		

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	<0.5
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 (%)		107
SURROGATE LIMITS	(71 - 126)	

CHEMIST NOTES:
N/A



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GAS CHROMATOGRAPHY - QUALITY CONTROL
MSMSD

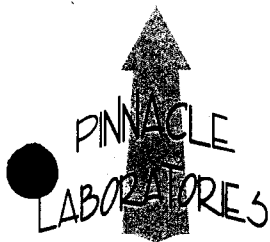
TEST : EPA 8021 MODIFIED
MSMSD # : 112047-14
CLIENT : PUBLIC SERVICE COMPANY
PROJECT # : REMEDIATION
PROJECT NAME : PERSON STATION
PINNACLE I.D. : 112047
DATE EXTRACTED : N/A
DATE ANALYZED : 12/13/01
SAMPLE MATRIX : AQUEOUS
UNITS : UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
CHLOROBENZENE	<0.5	10.0	11.1	111	10.1	101	9	(87 - 124)	20
1,1-DICHLOROETHENE	2.2	10.0	13.2	110	11.9	97	13	(80 - 120)	20
TRICHLOROETHENE	<0.3	10.0	11.8	118	9.8	98	19	(89 - 127)	20

CHEMIST NOTES:
N/A

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

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



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Albuquerque, New Mexico 87107
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GAS CHROMATOGRAPHY - QUALITY CONTROL
LCS/LCSD

TEST : EPA 8021 MODIFIED
MSMSD # : 121201
CLIENT : PUBLIC SERVICE COMPANY
PROJECT # : REMEDIATION
PROJECT NAME : PERSON STATION
PINNACLE I.D. : 112047
DATE EXTRACTED : N/A
DATE ANALYZED : 12/12/01
SAMPLE MATRIX : AQUEOUS
UNITS : UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
CHLOROBENZENE	N/A	10.0	10.4	104	9.7	97	7	(87 - 124)	20
1,1-DICHLOROETHENE	N/A	10.0	8.2	82	8.2	82	0	(80 - 120)	20
TRICHLOROETHENE	N/A	10.0	10.7	107	9.7	97	10	(89 - 127)	20

CHEMIST NOTES:
N/A

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

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

SEVERN**TRENT****SERVICES****STL Pensacola**

LOG NO: C1-12330

Received: 13 DEC 01

Reported: 19 DEC 01

Ms. Jacinta Tenorio
Pinnacle Laboratories
2709-D Pan American Freeway Northeast
Albuquerque, NM 87107

Project: 112047, PNM-PERSON STATION

Sampled By: Client

Code: 170511219

Page 1

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
12330-1	SURGE TANK DISCHARGE/112047-15	12-12-01/13:33
PARAMETER	12330-1	
Sulfate as SO4 (375.4), mg/l	400	
Dilution Factor	12.5	
Analysis Date	12.17.01	
Batch ID	SEW151	
Analyst	BE	

SEVERN

TRENT

SERVICES

STL Pensacola

LOG NO: C1-12330

Received: 13 DEC 01

Reported: 19 DEC 01

Ms. Jacinta Tenorio
Pinnacle Laboratories
2709-D Pan American Freeway Northeast
Albuquerque, NM 87107

Project: 112047, PNM-PERSON STATION

Sampled By: Client

Code: 170511219

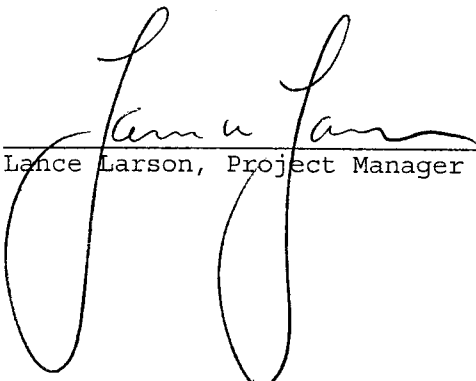
Page 2

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED			
12330-2	Method Blank				
12330-3	Lab Control Standard % Recovery				
12330-4	Matrix Spike % Recovery				
12330-5	Matrix Spike Duplicate % Recovery				
PARAMETER	12330-2	12330-3	12330-4	12330-5	
Sulfate as SO ₄ (375.4), mg/l	<5.0	94 %	80 %	85 %	
Dilution Factor	1	---	---	---	
Analysis Date	12.17.01	---	---	---	
Batch ID	SEW151	SEW151	SEW151	SEW151	
Analyst	BE	---	---	---	

These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the STL Project Manager who signed this test report.

See the Project Sample Inspection Form (PSIF) to determine if a sample was received that did not meet EPA requirements for sample collection, preservation, or holding time.


Lance Larson, Project Manager

Final Page Of Report

STL Pensacola PROJECT SAMPLE INSPECTION FORM



Order #: C112330 Date Received: 12-13-01

- | | |
|--|--|
| <p>1. Was there a Chain of Custody? <u>Yes</u> No*</p> <p>2. Was Chain of Custody properly filled out and relinquished? <u>Yes</u> No*</p> <p>3. Were samples received cold? <u>Yes</u> No* N/A
(Criteria: 2° - 6°C: STL-SOP)</p> <p>4. Were all samples properly labeled and identified? <u>Yes</u> No*</p> <p>5. Did samples require splitting or compositing*? Yes* <u>No</u>
Req By: PM Client Other*</p> <p>6. Were samples received in proper containers for analysis requested? <u>Yes</u> No*</p> <p>7. Were all sample containers received intact? <u>Yes</u> No*</p> | <p>8. Were samples checked for preservative? (Check pH of all H₂O requiring preservative (STL-PN SOP 917) except VOA vials that require zero headspace)* Yes No* <u>N/A</u></p> <p>9. Is there sufficient volume for analysis requested? <u>Yes</u> No* N/A (Can)</p> <p>10. Were samples received within Holding Time? (REFER TO STL-SOP 1040) <u>Yes</u> No*</p> <p>11. Is Headspace visible > ¼" in diameter in VOA vials?* If any headspace is evident, comment in out-of-control section. Yes* No <u>N/A</u></p> <p>12. If sent, were matrix spike bottles returned? Yes No* <u>N/A</u></p> <p>13. Was Project Manager notified of problems? (initials: _____) Yes No* <u>N/A</u></p> |
|--|--|

Airbill Number(s): 12878168014319 8954

Shipped By: UPS

Cooler Number(s): CLIENT

Shipping Charges: N/A

Cooler Weight(s): 6#

Cooler Temp(s) (°C): 2°C

(CCK9)

(LIST THERMOMETER NUMBER(S) FOR VERIFICATION)

Out of Control Events and Inspection Comments:

MULTIPLE PROJECT

(USE BACK OF PSIF FOR ADDITIONAL NOTES AND COMMENTS)

Inspected By: JK Date: 12-13-01

Logged By: HLK Date: 13-Dec-01

Note all Out-of-Control and/or questionable events on Comment Section of this form. For holding times, the analytical department will flag immediate hold time samples (pH, Dissolved O₂, Residual CL) as out of hold time, therefore, these samples will not be documented on this PSIF.

If Other, note who requested the splitting or compositing of samples on the Comment Section of this form. All volatile samples requested to be split or composited must be done in the Volatile Lab. Document: "Volatile sample values may be compromised due to sample splitting (compositing)"

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 (STL-SOP 938, section 2.2.9).

According to EPA, ¼" of headspace is allowed in 40 ml vials requiring volatile analysis, however, STL makes it policy to record any headspace as out-of-control (STL-SOP 938, section 2.2.12).

Network Project Manager: Jacinta A. Tenorio

Pinnacle Laboratories, Inc.
2709-D Pan American Freeway, NE
Albuquerque, New Mexico 87107
(505) 344-3777 Fax (505) 344-4413

C112330

ANALYSIS REQUEST

[illegible]

PROJECT INFORMATION		SAMPLE RECEIPT		SAMPLES SENT TO:		RELINQUISHED BY: 1.		RELINQUISHED BY: 2.	
PROJECT #:	112047	Total Number of Containers		PENSACOLA - STL-FL	X	Signature:	Time:	Signature:	Time:
PROJ. NAME:	PNM	Chain of Custody Seals		ESL - OR		Francine	June 17 00		
QC LEVEL:	STD IV	Received Intact?		STL - CT		Printed Name:	Date:	Printed Name:	Date:
QC REQUIRED:	MS MSD BLANK	Received Good Cond./Cold		ATEL - AZ		Francine	June 12/12/01		
TAT:	STANDARD RUSH!!	LAB NUMBER:		ATEL - MARION		Pinnacle Laboratories, Inc.		Company	
				ATEL - MELMORE		RECEIVED BY:	1.	RECEIVED BY:	2.
DUE DATE:	12/27	COMMENTS:		BARRINGER		Signature:	Time:	Signature:	Time:
RUSH SURCHARGE:			ENVIRO TEST LABS		Robb	0930			
CLIENT DISCOUNT:			WCAS		Printed Name:	Date:	Printed Name:	Date:	
SPECIAL CERTIFICATION			WOHL		F. C. OBURGON	12-13-01			
REQUIRED: YES NO					Company	STZ-PAS	Company		

PROJECT MANAGER: CHUCK ARATER

COMPANY: PUBLIC SERVICE COMPANY OF NEW MEXICO

ADDRESS: ALVARADO SQUARE - ER16
ALBUQUERQUE, NM 87158

PHONE: (505) 241-4744

FAX: (505) 241-2487

BILL TO: SAME

COMPANY:

ADDRESS: ATTN: CHUCK ARATER

ANALYSIS REQUEST

[illegible]

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT INFORMATION		PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS		RELINQUISHED BY: 1		RELINQUISHED BY: 2	
PROJ. NO.: Remediation	(RUSH) <input type="checkbox"/> 24hr <input type="checkbox"/> 48hr <input type="checkbox"/> 72hr <input type="checkbox"/> 1 WEEK (NORMAL) <input checked="" type="checkbox"/>	CERTIFICATION REQUIRED: <input type="checkbox"/> NM <input type="checkbox"/> SDWA <input type="checkbox"/> OTHER		Signature: <i>Chas</i> Time: <i>1500</i>		Signature: _____ Time: _____	
PROJ. NAME: Person Station	Printed Name: _____ Date: _____			Printed Name: _____ Date: _____			
P.O. NO.:	METHANOL PRESERVATION <input type="checkbox"/>	COMMENTS: FIXED FEE <input type="checkbox"/> <i>4 copies Please</i>		Company: <i>PNW</i>		Company: _____	
SHIPPED VIA:				See reverse side (Force Majeure)			
SAMPLE RECEIPT				RECEIVED BY: 1		RECEIVED BY: (LAB) 2	
NO CONTAINERS	<i>1</i>	PLEASE PROVIDE DATA ON DISKETTE AS WELL AS EXTRA HARD COPY TO RON JOHNSON MS-0408		Signature: _____ Time: _____		Signature: <i>Johnnie</i> Time: <i>1500</i>	
CUSTOMER SEAL	<i>12/12/01</i>			Printed Name: _____ Date: _____		Printed Name: <i>Johnnie</i> Date: <i>12/12/01</i>	
RECEIVED INITIALS	<i>12/12/01</i>			Company: _____		Company: <i>Pinnacle Laboratories Inc.</i>	
DATE RECEIVED	<i>12/12/01</i>						
		<i>From Field</i>					