

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

August 21, 2001

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, Second 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.

A handwritten signature in cursive script that reads "Toni K. Ristau". The signature is written in black ink and is positioned above a horizontal line.

Toni K. Ristau
Director, Environmental Services

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

Sincerely,

A handwritten signature in cursive script that reads "John Hale". The signature is written in black ink and is positioned above the printed name.

John Hale, P.E.
Technical Project Manager

Enclosures

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

Treatment Effectiveness Report
Second Quarter 2001

August 15, 2001

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 October 2000. However, the high PCE concentration zone (100 ppb to 200 ppb) that was present in the October 2000 contour map has disappeared. Figure 11 indicates that the low and moderate DCE concentration zones have changed shape slightly since last October. Figure 12 indicates the reappearance of a small, low concentration TCA plume.

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

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 few quarters due to a damaged pump.

Continued operational problems with the sulfuric acid injection pump prevented operation of the east treatment train during this quarter.

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 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.