



DEPARTMENT OF THE ARMY
ST. LOUIS DISTRICT, CORPS OF ENGINEERS
8945 LATTY AVENUE
BERKELEY, MISSOURI 63134

REPLY TO
ATTENTION OF:

October 29, 2002

Formerly Utilized Sites Remedial Action Program

Ms. Elaine Seele
Missouri American Water Company
535 North New Ballas Road
St. Louis, Missouri 63141

Dear Ms. Seele:

Please find enclosed a report regarding the responses of FUSRAP personnel to work performed at 9050 Pershall Road to repair a water main break on October 21, 2002. This report provides a formal summary of the following information: work site description; radiological support summary; field survey and soil sample data; an explanation of the data; and the dose assessment with the dose estimate for personnel at the work site.

If you need any additional information regarding this report, please contact me at (314) 260-3930.

Sincerely,

A handwritten signature in cursive script that reads "David E. Mueller".

David E. Mueller, P.E.
FUSRAP Area Engineer

Enclosure

**Missouri-American Water Company
Water Main Break at 9050 Pershall Road**

Job Synopsis: At approximately 1000 hours on October 21, 2002 the U.S. Army Corps of Engineers directed Shaw E&I to provide utility support for work being performed at 9050 Pershall Road. A radiation protection technician was dispatched to support Missouri-American Water Company during a water main repair at this location.

In order to repair the water main break, the utility needed to excavate the area using a backhoe. As the hole around the break was widened the radiation protection technician performed a radiological survey with a Sodium-Iodide (NaI) detector of the excavation soils. All readings were at background levels. A soil sample was collected for analysis (i.e., sample number UTW27489). The sample was taken at a depth of 3 feet, from the floor of the hole. The laboratory analyses indicated thorium-230/-232, radium-226, and uranium-238 concentrations at background levels.

The Missouri-American Water Company foreman was informed that no radiological controls would be necessary and the soil could be handled as normal. The radiation protection technician surveyed the Missouri-American Water Company crew, along with all of the tools and equipment used. All items were found to be free of contamination (SLAPS Survey Log #02-10-254). The operations were completed on October 21, 2002 at about 1300 hours.

Table 1 presents the results of the laboratory analyses of the soil samples. The soil concentrations shown in the table are the total concentrations for each radionuclide, including the contribution from background radiation. Table 1 also gives the GPS coordinates (MO State Plane) for the sample taken during the course of the job.

Table 1. Soil Sample Summary

Sample Number	Date Collected	Th-230	Th-230 MDA	Ra-226	Ra-226 MDA	U-238	U-238 MDA	Approximate Coordinates	
								Northing	Easting
UTW27489	10/21/02	0.81	2.13	0.79	0.03	0.56	0.21	1071807	861660

Dose Assessment: A survey of the area using a microrem meter indicated no levels above background, which was supported by the laboratory results. This survey data, combined with the observed sample data, resulted in a 0.0 mRem dose estimate for all personnel working on this job.

Shaw E&I Contact: Jonathan Rankins (Shaw E&I)

Utility Point of Contact: Elaine Steele
Missouri American Water Company
535 North New Ballas Road
St. Louis, MO 63141

Utility Personnel: Robert Robinette (Foreman), Mark Cooper, James King, Bob Chisum, and Mark Mottert

FUSRAP Document Management System

Year ID

00 3676

Further Info?

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Operating Unit

North County

Site

SLAPS VP

Area

Pershall Road

MARKS Number

FN:1110-1-8100g

Primary Document Type

Site Mangement

Secondary Document Type

Correspondence

Subject or Title

enclosed report regarding responses of FUSRAP personnel to work performed at 9050 parshal road to repair water main break on 21 oct 03

Author/Originator

David Mueller

Company

FUSRAP

Date

10/29/2003

Recipient(s)

Elaine Seele

Company (-ies)

MO American Water Co

Version

Final

Original's Location

Central Files

Document Format

paper

Confidential File?

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Comments

SAIC number

Bechtel ID

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Filed in Volume

