

Technical Review of the Mound Site

Summary

by **EHS TECHNOLOGY GROUP, LLC**

Reference Document: PRS 211/212 Data Package, Public Review Draft, November 2004

Purpose: The purpose of this document is to notify the public of the status (No Further Action) of the Potential Release Sites (PRS) 211/212.

Assessment of Review: EHS has had the opportunity to review and comment on this PRS Data Package. We concur with the planned No Further Action status for PRS 211/212. This data package was prepared in accordance with the requirements specified in the *Work Plan for Environmental Restoration (ER) of the DOE Mound Site, The Mound 2000 Approach*. As such, all appropriate inquiry was made into the condition of the potential release site.

Technical Analysis: PRS 211/212 consists of two underground storage tanks situated in a concrete pit. Both tanks received waste water from the A Building Decontamination Medical Facility. Historical data suggests that these tanks were used only a few times from their installation in 1968 through 1990. Therefore, only modest radiological contamination was suspected inside the tanks. Sampling of Tank 29 sludge found plutonium 238 (Pu-238) at 49 pCi/g, which is approaching the Cleanup Objective of 55 pCi/g. However, the Tank 28, results exceeded the Cleanup Objective for only one detected radionuclide (Pu-238 at 151 pCi./g). Because of these readings, the tanks were removed and disposed as a Low Level Radioactive Waste. Additional sampling or surveys were performed of the following: sediment below the tanks; tank pit surfaces; tank influent, discharge and sampling pipelines, and soils below the majority of the pipelines. The results indicated that the residual contamination of these materials and sediments from the area of the tanks are below Cleanup Objectives and surface release criteria. Therefore, sections of the tank pit that are below grade will be abandoned in place. Associated portions of influent, sampling and discharge pipelines that are situated below a sidewalk and close to a nearby stanchion foundation will be plugged in the pit and abandoned in place. The associated sanitary sewer pipeline, which was previously plugged at its manhole, will also be abandoned in place. Plugged lines will prevent migration of subsurface materials and infiltration of debris into the sanitary system.

Substantive Comments: EHS concurs with the No Further Action recommendation for the tank pit, sewer lines and soils known as PRS 211/212. We understand that sampling in the area has determined that all soils contaminants are below the cleanup objective and all pipelines sampled had contaminant levels below cleanup objectives. Therefore, these PRS should not present a significant environmental concern at the site.

Coordination between CH2M Hill, the DOE and MMCIC to ensure the PRS 211/212 area is left in a condition consistent with the Mound Reuse Plan.

If EHS's understandings are correct, no specific response to the above comment is necessary, and we understand that these comments will be included in the OSC report.