



Department of Energy
Ohio Field Office
West Valley Demonstration Project
10282 Rock Springs Road
West Valley, NY 14171-9799

To the Reader:

This report, prepared by the United States (U.S.) Department of Energy (DOE) West Valley Demonstration Project (WVDP), summarizes the environmental protection program at the WVDP for calendar year 2010.

Monitoring and surveillance of the WVDP facilities are conducted to verify that public health and safety and the environment are protected. The quality assurance requirements applied to the environmental monitoring program by the DOE ensure the validity and accuracy of the monitoring data.

At the WVDP, radiological air emissions are controlled and permitted by the U.S. Environmental Protection Agency (EPA) under National Emission Standards for Hazardous Air Pollutants, Subpart H, regulations. Nonradiological liquid effluent discharges are controlled and permitted through the New York State Pollutant Discharge Elimination System. Generation, storage, and treatment of hazardous and mixed wastes are conducted in accordance with Resource Conservation and Recovery Act interim status regulations and New York State Conservation Law.

Air, surface water, groundwater, storm water, soil, sediment, and biological samples are collected and analyzed for radiological and nonradiological constituents. The resulting data are evaluated to assess effects of activities at the WVDP on the nearby public and the environment.

The calculated dose to the hypothetical maximally exposed off-site individual from airborne radiological emissions in 2010 was much less than one-tenth of one percent of the EPA limit. The dose from combined airborne and waterborne radiological releases in 2010 to the same individual was less than one-tenth of one percent of the DOE limit, verifying that the dose received by off-site residents continues to be minimal.

The WVDP was operated in a safe manner during 2010. The employees achieved a cumulative 3.5 million work hours without a lost-time work accident or illness, while accomplishing complex decontamination and waste management activities.

In 2010, deactivation and decontamination of equipment within the main plant process building continued. A tank and vault drying system was installed in the waste tank farm to dry the underground waste tanks and their vaults, formerly used to manage high-level radioactive waste. Radioactive waste handling techniques were refined to reclassify, repackage, and volume-reduce stored legacy waste, including transuranic waste. Installation of the north plateau in-ground, full-scale permeable treatment wall, designed to intercept and treat the strontium-90 groundwater plume, was completed.

On June 29, 2011, the DOE awarded CH2MHill • B&W West Valley, LLC (CHBWV) the Phase 1 Decommissioning – Facility Disposition contract for the WVDP.

If you have any questions or comments about the information in this report, please contact WVDP Communications at (716) 942-4601 or complete and return the enclosed survey.

Sincerely,

A handwritten signature in black ink, appearing to read "B. C. Bower".

Bryan C. Bower, Director
West Valley Demonstration Project



