

Permeable Treatment Wall Update Quarterly Public Meeting

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CH2M HILL B&W West Valley

November 19, 2014

Installed 860 ft. Long Permeable Treatment Wall (PTW) In October/November 2010

PTW Technology Selected to Achieve North Plateau Plume Remedial Action Objectives (RAOs)

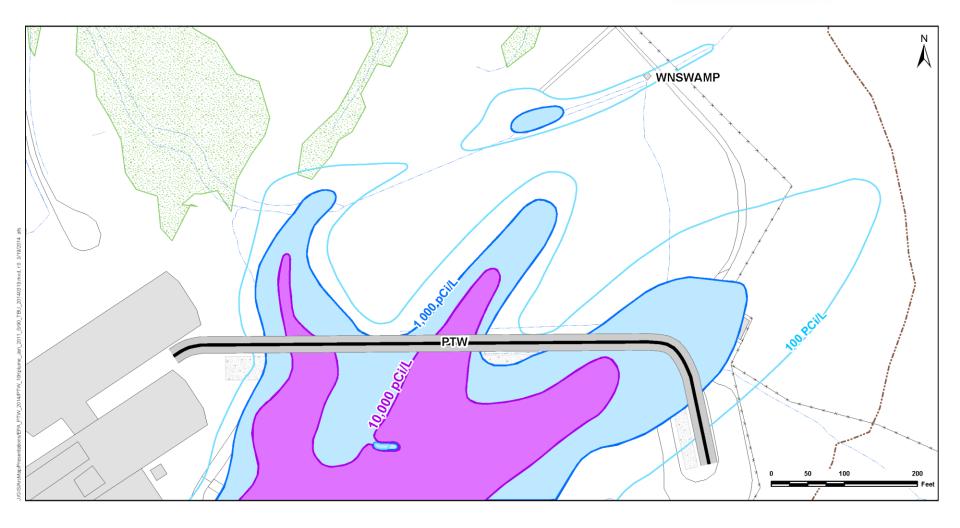
- Reduce Sr-90 leaving the site to ALARA (goal < 1,000 pCi/L)
- 2. Minimize expansion of plume
- 3. Technology used for containment does not preclude strategies for site decommissioning

PTW Performance Monitoring

- Performed Baseline Monitoring in January 2011
- Monthly Inspections Performed Per O&M Plan
- Quarterly Groundwater Monitoring
 - Measure Groundwater Elevations
 - •Collect Samples for Sr-90 and Geochemical Constituents

• Results Reported in Annual Monitoring Reports

Sr-90 Plume Delineation (January 2011 Baseline)



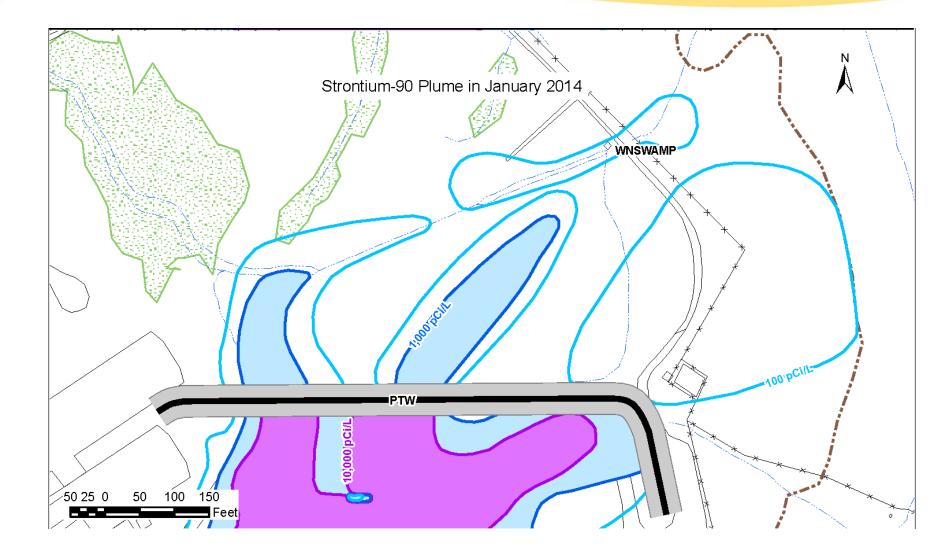
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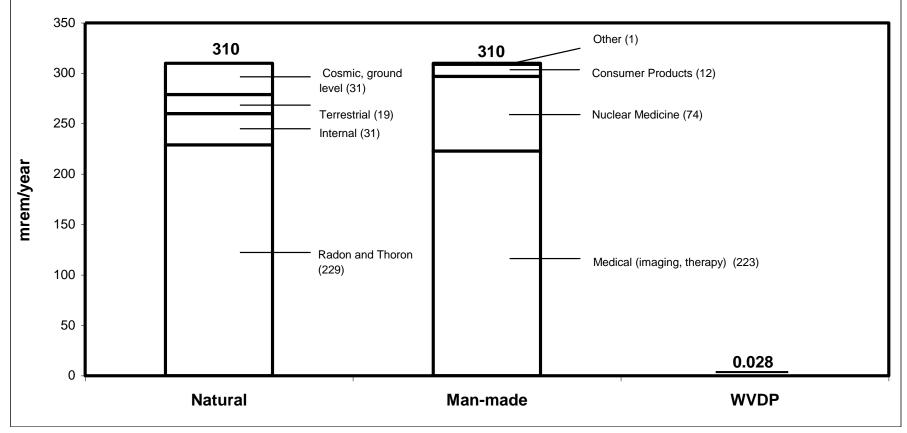


Sr-90 Plume Delineation (January 2014)



Comparison of Dose From Natural and Man-Made Sources^a to the Dose from 2013 WVDP Effluents

Figure 3-1 of 2013 WVDP Annual Site Environmental Report Comparison of Doses From Natural and Man-Made Sources to the Dose From 2013 WVDP Effluents



^a Source: National Council on Radiation Protection and Measurements (NCRP) Report Number 160, 2009.

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2014 annual monitoring results indicate that the PTW is functioning successfully.

- The ongoing processes at the PTW are achieving RAOs and the functional design requirements of the PTW system have also been attained
- Continue quarterly monitoring and performance evaluations, and document in annual reports

Continue to monitor and evaluate dose resulting from WVDP effluents and document in Annual Site Environmental Reports