

WVDP Permeable Treatment Wall Update

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1

WVDP-Permeable Treatment Wall Update

- Installed 860-foot 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)
 - Minimize expansion of plume
 - Technology used for containment does not preclude strategies for site decommissioning

2

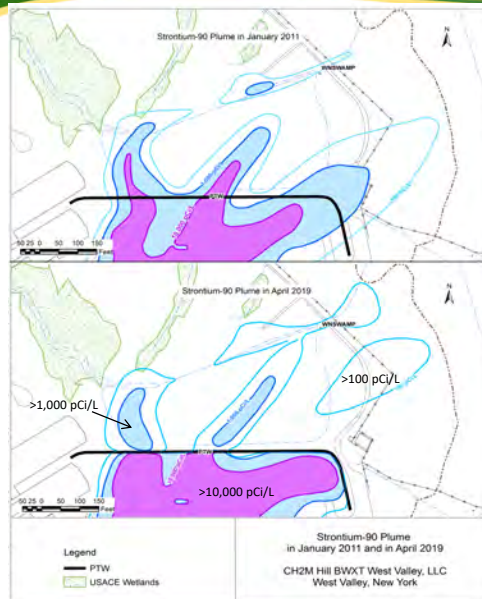


3

Current PTW Performance

- Geochemical and Sr-90 data continue to indicate ion exchange is occurring.
- Sr-90 activity in groundwater downgradient of the PTW has decreased overall.
- Sr-90 activity inside the PTW occurs primarily in narrow zones where there are preferential flow paths upgradient.
- Downgradient Sr-90 levels are expected to continue to decrease as groundwater treated by the PTW flows towards these areas.

4



- Total estimated dose to the public from WVDP liquid effluents is well below the DOE public dose limit of 100 mrem/year.
- An off-site individual could have received a maximum dose of 0.012 mrem due to drainage from the north plateau.
- This low dose was attributable to strontium-90, largely from the WNSWAMP drainage point which includes emergent groundwater.