

Environmental Update: Barnwell LLRW Disposal Facility

Prepared for the Governor's Nuclear Advisory Council Meeting April 13, 2017

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Groundwater and Surface Water: Monitoring the Tritium Plume

- Chem-Nuclear samples 180 monitoring locations
 - On-site wells
 - Off-site wells
 - Creek
- Sampling performed4 times per year

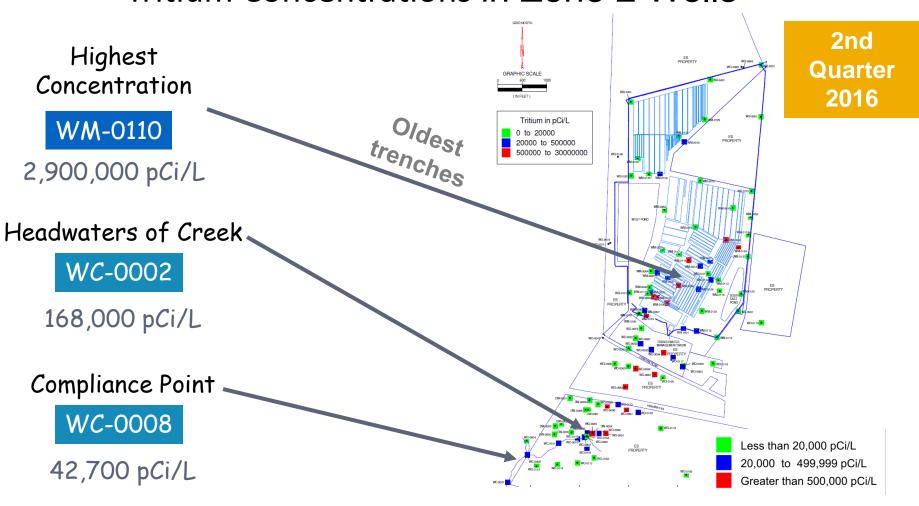


- DHEC samples at least 21 of those locations
- DHEC splits samples with Chem-Nuclear



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Tritium Concentrations in Zone 2 Wells





Annual Trending Report

- Monitors plume movement
- Looks at data for last 5 years
- 27 locations
- Statistical analysis
- 3 upward trend
- 18 downward trend
- 6 no trend

Tritium levels are closely monitored at the compliance point to be sure they do not exceed regulatory limits

Tritium levels are stable at compliance point

The plume is well defined

There are no receptors of the water



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