



Chem-Nuclear Low-Level Radioactive Waste Disposal Facility Update

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December 13, 2012

Topics

- License Appeal
- Ground and Surface Water Update

License Appeal Update

- March 2004 - DHEC renewed the Chem-Nuclear System's (CNS) License
- April 2004 - DHEC's Decision was appealed by Sierra Club and Environmentalists, Inc.
- The Administrative Law Court (ALC) dismissed Environmentalists, Inc. based on lack of standing
- October 2005 - ALC found the Sierra Club failed to present evidence warranting the reversal of the License and denied motion for reconsideration

License Appeal Update (cont.)

- Sierra Club appealed the ALC decision to the SC Court of Appeals
- Court of Appeals remanded the case back to the ALC for a ruling on whether CNS is in compliance with certain Sections of R.61-63
- DHEC filed a Petition for Rehearing on the grounds that Sierra Club had not properly preserved issues related to these Sections
- May 3, 2010 - Rehearing denied

License Appeal Update (cont.)

- June 2010 - A Petition for Writ of Certiorari was filed by CNS to the SC Supreme Court asking them to review the decision of the lower court
- July 21, 2011 - Petition was denied
- July 22, 2011 - The Remittitur was filed with the Administrative Law Court

License Appeal Update (cont.)

- July 20, 2012 – ALC ruled that the facility was in compliance with the regulations and that renewal of the license was proper
- August 30, 2012 - Sierra Club appealed the ALC ruling to the SC Court of Appeals
- Sierra Club was scheduled to have their brief to the Court by November 19th. Sierra Club has requested an additional extension until January 9th.
- The Department and EnergySolutions will have 30 days to file reply briefs with the Court.

Groundwater and Surface Water Monitoring the Tritium Plume

- Chem-Nuclear samples 179 monitoring locations
 - On-site wells
 - Off-site wells
 - Creek
- Sampling performed 4 times per year
- DHEC samples at 31 of those locations
- DHEC splits samples with Chem-Nuclear



Tritium Concentrations in Zone 2 Wells

2nd
Quarter
2012

Highest
Concentration

WM-0110

29,100,000 pCi/L

Headwaters of Creek

WC-0002

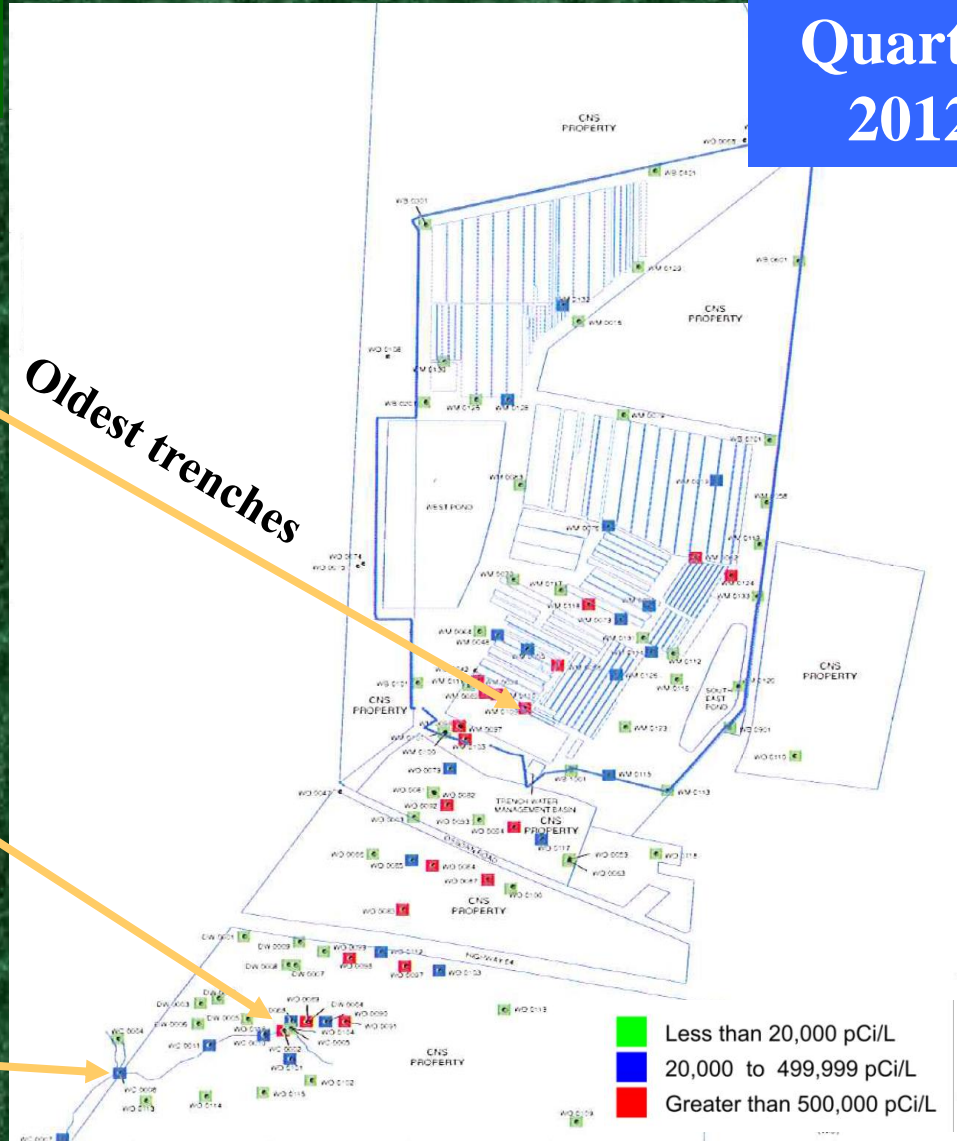
508,000 pCi/L

Compliance Point

WC-0008

82,400 pCi/L

Oldest trenches



Annual Trending Report

- Monitors plume movement
- Looks at data for last 5 years
- 27 locations
- Statistical analysis
- 7 – upward trend
- 9 – downward trend
- 11 – 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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