

**Appendix D. National Pollutant Discharge  
Elimination System Noncompliance  
Summaries for 2014**



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## D.1 Y-12 National Security Complex

The Y-12 complex was in full compliance with the National Pollutant Discharge Elimination System (NPDES) Permit in 2014. About 3,400 data points were obtained from sampling required by the NPDES permit. Compliance with permit discharge limits for 2014 was 100%.

The Industrial and Commercial User Wastewater Discharge Permit defines requirements for the discharge of wastewaters to the sanitary sewer system and prohibitions for certain types of wastewaters. It prescribes requirements for monitoring certain parameters at the East End Sanitary Sewer Monitoring Station. Monitoring results during 2014 indicate two exceedances of the permit for mercury during October 2014. The exceedances were the result of a cleaning and lining project conducted near Building 9203. It is suspected the cleaning operation displaced elemental mercury that was lying in the cracks and low spots in the piping. Once the first exceedance was discovered, an enhanced sampling plan was implemented that required three 24-hour composite and four grab samples to be taken each week. This sampling plan was continued until mercury concentrations returned to historical levels.

## D.2 East Tennessee Technology Park

The East Tennessee Technology Park was in full compliance with the NPDES Permit in 2014 based on 148 laboratory analyses and 161 field measurements and flow estimates. There were no instances of NPDES Permit nonconformances.

## D.3 Oak Ridge National Laboratory

Oak Ridge National Laboratory (ORNL) was in full compliance with the NPDES Permit in 2014 based on 3,195 laboratory analyses and 2,839 field measurements and flow estimates. There were no instances of NPDES Permit nonconformances.

The ORNL Sewage Treatment Plant (STP) has experienced several instances in past years where the rate of influent after heavy rain storms overwhelms the existing pump system and results in partial treatment (disinfection) before discharge to White Oak Creek. A project is in progress to upgrade the ORNL STP, which includes increased influent handling capacity and improved storm water drainage. The project is estimated to be completed in 2016.

