

## **Description of Permit Package LAW-034, Rev. 0**

### LAW-034, Rev. 0, “Tank System Secondary Containment for LAW ASX Samplers”

Permit package LAW-034 addresses the tank system secondary containment design associated with LAW Autosampling System (ASX) samplers ASX-SMPLR-00012 and ASX-SMPLR-00013. Both autosamplers are located in Room L-0301 at Elevation 48’-0” of the LAW facility. The LAW ASX samplers contain both upper and lower secondary containment liners and leak detection systems. The sloped stainless steel upper containment liner is designed to divert a leak from the incoming sample feed and return lines to a sump where the leak is detected. The sloped stainless steel lower containment area is designed to divert liquids to a sloped collection trough. The trough contains a removable weir that allows liquids to collect and activate the thermal level detection switch and alarms to indicate that a leak may have occurred.

Permit Package LAW-034, Rev. 0, includes:

- An assessment report signed by an independent qualified registered professional engineer (IQRPE) certifying certain portions of the permit package
- General Arrangement Plan for the LAW +48 foot elevation
- Dangerous Waste Permit (DWP) Liner Heights in the LAW Facility. This document renames and replaces Revision 6, 24590-LAW-PER-M-02-002, *Flooding Volume for LAW Facility*
- A revised Secondary Containment Design Document
- A revised Leak Detection in Secondary Containment Systems Document. This document updates and consolidates and replaces permit documents 24590-WTP-PER-J-02-001 and 24590-WTP-PER-J-02-002.

The following components of this package are already included in the Dangerous Waste Permit, the Administrative Record, or are provided with other permit packages, as listed in the Table of Contents:

- Material Selection for Building Secondary Containment/Leak Detection
- Installation of Tank Systems and Miscellaneous Unit Systems
- LAW Facility Sump Data
- Description of Access for Conduction Integrity Assessments
- Integrity Assessment Program and Schedule for DWP Regulated Equipment in the Analytical Laboratory and Low-Activity Waste Vitrification Facility
- Prevention of Hydrogen Accumulation in Tank Systems and Miscellaneous Treatment Unit Systems.