



## Hanford Tank Vapors

Vapors Weekly Update  
April 18, 2018

### ***From the desk of Mark Lindholm, WRPS President and Project Manager***

Phase 2 of the Vapor Monitoring Detection and Remediation project has been completed. The goal of the project is developing a Vapor Monitoring and Detection System (VMDS) to provide a toolbox of equipment that can then be deployed as needed to monitor vapor sources, vapor control boundaries and targeted work areas in near real-time.

An off-the-shelf suite of chemical sensors, meteorological instruments, sampling technologies and data-management and evaluation software underwent bench and pilot testing during Phase 1. In Phase 2, pilot-scale testing gathered field data to determine the viability of individual VMDS components to provide detection and early warning to lower the risk of worker exposure to chemical vapors.

The viable technologies can be used to notify and warn Operations staff and workers during a vapor event; improve vapor characterization by describing the tank farm environment during a given work activity; help quantify known vapor sources; identify fugitive vapor sources; establish correlations to understand the transport of vapors from the source to workers' breathing zones, and provide predictive tools to support work planning and incident-response planning.

The Phase 2 testing allowed us to mature key technologies and begin the effort of transitioning the equipment for use by Operations as needed based on the vapor management strategy and exposure assessment results. The data from the stack monitors and meteorological stations will help central command identify hazardous conditions and take action to limit worker exposure.



Part of an optical spectrum gas imager installed at AP Farm.

### **Opportunities for Employee Engagement**

- The next full Chemical Vapors Solutions Team (CVST) meeting is scheduled for Wednesday, April 25, from 2 to 4 p.m. in Conference Room G-206 in 2704-HV.
- The CVST Communications sub-team meeting is Monday, April 23, from 3 to 4:30 in conference room 110 at 2425 Stevens Center.

**Mark**

Have questions? Send us a message! [wrpsadmin@rl.gov](mailto:wrpsadmin@rl.gov)