



U.S. DEPARTMENT OF  
**ENERGY**

Legacy  
Management

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# PROGRAM UPDATE



Safe Passage:  
Wildlife-Friendly  
Fencing Gains  
Momentum  
at LM Sites

Women of  
LM Celebrated  
During Women's  
History Month

Colorado STEM  
Events Feature  
Plants, Soil,  
and Yo-Yos



# LM Shares Lessons Learned in Environmental Data Management

The U.S. Department of Energy (DOE) Office of Legacy Management (LM) is sharing lessons learned with the Hanford Mission Support Alliance and the DOE Office of Environmental Management (EM) Nevada Program Office regarding implementation of a new environmental data management system.

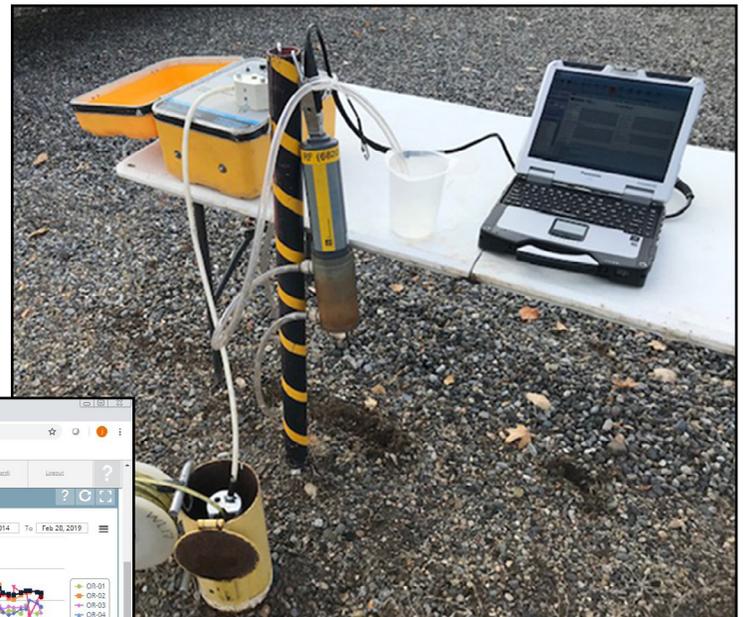
Environmental data management systems are complex collections of tools that govern environmental data from the time it's requested to the time it becomes available to stakeholders. The effectiveness of these systems often decreases over time as more data is managed and technology advances. LM recently migrated from an older system to EarthSoft's EQuIS environmental data management system.

EQuIS comprises a suite of software applications that support the complete environmental data workflow. Specifically, these tools support task management, field data collection, analytical data checking, data verification and validation, reporting, graphics, and visualization. This functionality is consistently needed by those managing environmental data and is a reason EQuIS is used so prevalently. While the uses of the application suite are similar from site to site and project to project, there are nuances that can confound data managers as they migrate from one environmental data management system to another.

LM's experience with addressing these nuances is valuable to other DOE offices and programs going through similar system migrations. The Hanford, Washington, Site is migrating

data from two aging homegrown databases currently used for Hanford's Environmental Surveillance program. These two databases will be retired once they have migrated to EQuIS. To facilitate the Hanford migration, LM has provided computer code, data-table templates, and associated process documentation. These tools and information should help expedite system migration, assist in avoiding pitfalls, and mitigate risks to data integrity and quality. Similar collaboration has recently occurred with EM's Nevada Program Office.

Other DOE sites are experiencing similar issues with aging environmental data management systems and are working to identify solutions. In discussions at the DOE Annual Site Environmental Report workshop in October 2018, some attendees expressed difficulties with their current systems and a desire to transition to newer systems with upgraded features. LM will continue to collaborate and share lessons learned with the wider DOE environmental data community related to environmental data management. ❖



Above: EQuIS EDGE field data entry application on laptop capturing real-time field chemistry from a well. Left: EQuIS Dashboards reporting analytical data over time for several locations within an area.

