
Overview of the First Quarter 2013 Surveillance and Maintenance Report for the LM Rocky Flats Site

January–March 2013

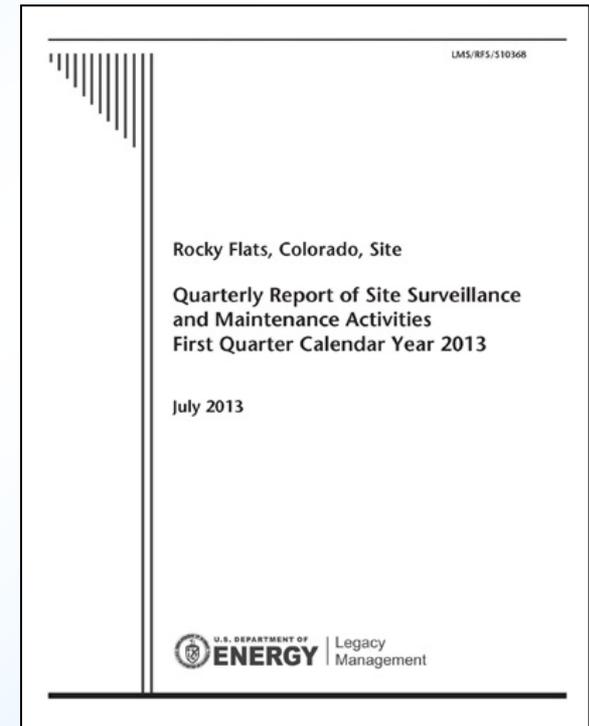


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Quarterly Monitoring and Reporting

- Quarterly reports are required under the RFLMA to document that the CERCLA remedy continues to be protective
 - Primary goal is protecting surface water
- Response action under the final remedy for Rocky Flats
 - Maintain two landfill covers
 - Maintain four groundwater treatment systems
 - Surface water and groundwater monitoring
 - Physical controls
 - Signage
 - Restricted access
 - Institutional controls
 - No building construction or occupation
 - Restrictions on excavation and soil disturbance
 - No consumption or agricultural use of surface water
 - No groundwater wells except for monitoring
 - Protection of landfill covers and engineered remedy components



RFLMA Attachments Modifications

- Contact Record 2012-03 describes proposed modifications
- Modifications approved February 21, 2013
- Attachment 1
 - Site map updated to reflect PLF and A-3 Ponds dam breaches
- Attachment 2
 - Table 1 surface water standards for 8 analytes revised to adopt Colorado Water Quality Control Commission standards revisions effective in 2013
 - Figures and tables updated to reflect dam breach and WALPOC and WOMPOC replacing GS08, GS11, and GS31 as points of compliance
 - Changes to reflect completion of third five-year review and successful revegetation at OLF and PLF

Surface Water Monitoring

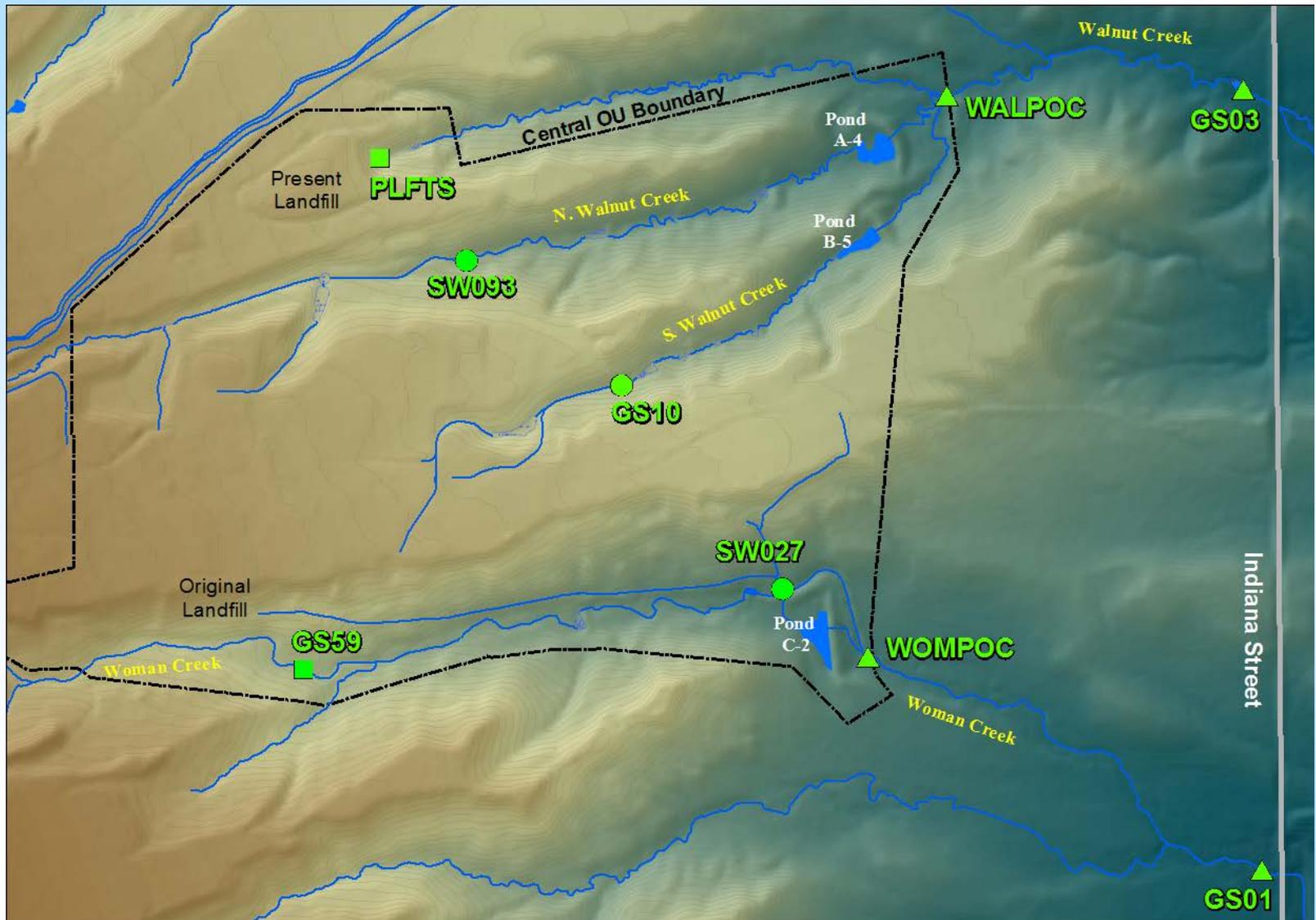
First Quarter 2013



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Selected RFLMA SW Monitoring Locations



Performance Monitoring at OLF and PLF

■ OLF

- All sampling results met water quality standards during the quarter

■ PLF

- All sampling results met water quality standards during the quarter

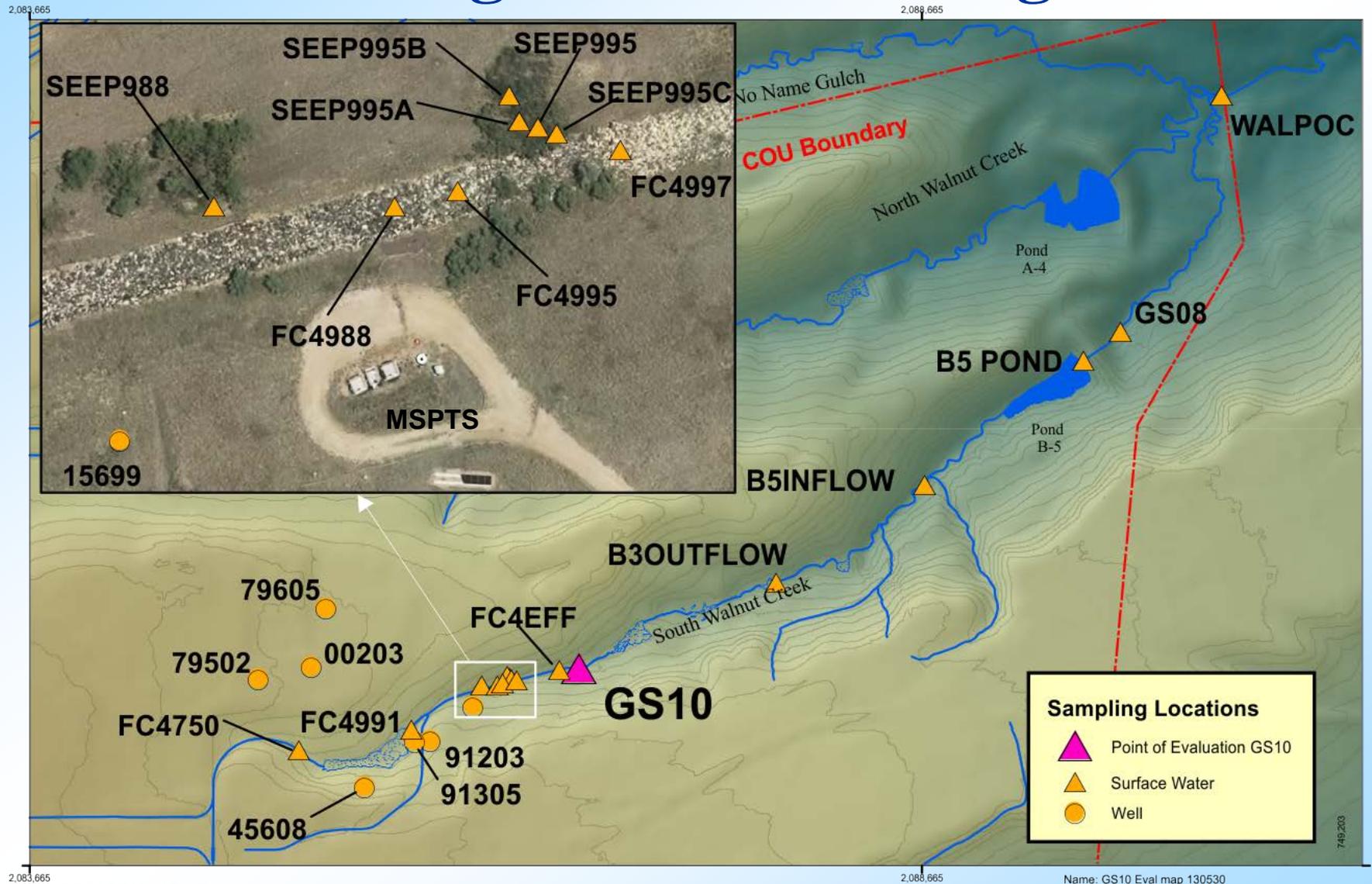


Point of Evaluation Monitoring – GS10

- Reportable 12-month rolling average values for americium and uranium at GS10 were observed during the quarter
 - Plutonium was not reportable during the quarter
- Additional sampling is being conducted both upstream of and downstream of GS10



GS10 Investigation Monitoring



Questions?



Groundwater Monitoring and Operations

First Quarter 2013



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RFLMA Monitoring

- RCRA wells at PLF and OLF
 - Results consistent with previous quarters
 - Statistical evaluation will be discussed in the 2013 annual report



Other Activities

- Completed installation of air strippers at MSPTS and ETPTS
 - MSPTS: In effluent manhole
 - More than doubled the effectiveness of the prototype unit
 - Operates full time
 - ETPTS: In influent manhole
 - Reduces total VOCs by an order of magnitude
 - ZVI-filled treatment cells receive water that has passed through the air stripper
 - Air stripper optimization continues
- Continued testing at SPPTS
 - ZVI-containing microcells are used to treat uranium
 - Pilot-scale lagoons are used to treat nitrate
 - Results of tests are promising
 - Testing continues



Questions?



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Site Operations – First Quarter 2013



Site Operations – OLF

- Three monthly inspections
- Monitored eight settlement monuments and seven inclinometers



Site Operations – PLF

- One inspection
- Nine settlement monuments and six side slope monitors scheduled for fourth quarter



Annual Site (Central Operable Unit) Inspection – March 19, 2013

- Inspect and monitor for evidence of significant erosion
- Inspect effectiveness of institutional controls
- Document evidence of any adverse biological conditions observed during inspection
- Confirm Environmental Covenant is in the administrative record and Jefferson County land records



Questions?



First Quarter 2013 Ecological Monitoring Summary

- Data analysis and report writing
- Planted volunteer-collected wildflower and grass seed at forb nursery locations
- Planted native grasses in old mine road on D-2 parcel

