

Former Hazardous Waste Management Facility - Perimeter Soils Update

*Brookhaven National Laboratory
Community Advisory Council*

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Background

- Several phases of investigation (radiological surveys, soil/groundwater sampling), remediation and associated reporting have been performed since 2005 for the FHWMF Perimeter Area.
- Reports were prepared and submitted to regulatory agencies as appropriate and updates provided to stakeholders.
- Contamination is believed to be a result of historical operations associated with the transfer and management of wastes to and within the FHWMF and stormwater runoff from contaminated soils within the facility.

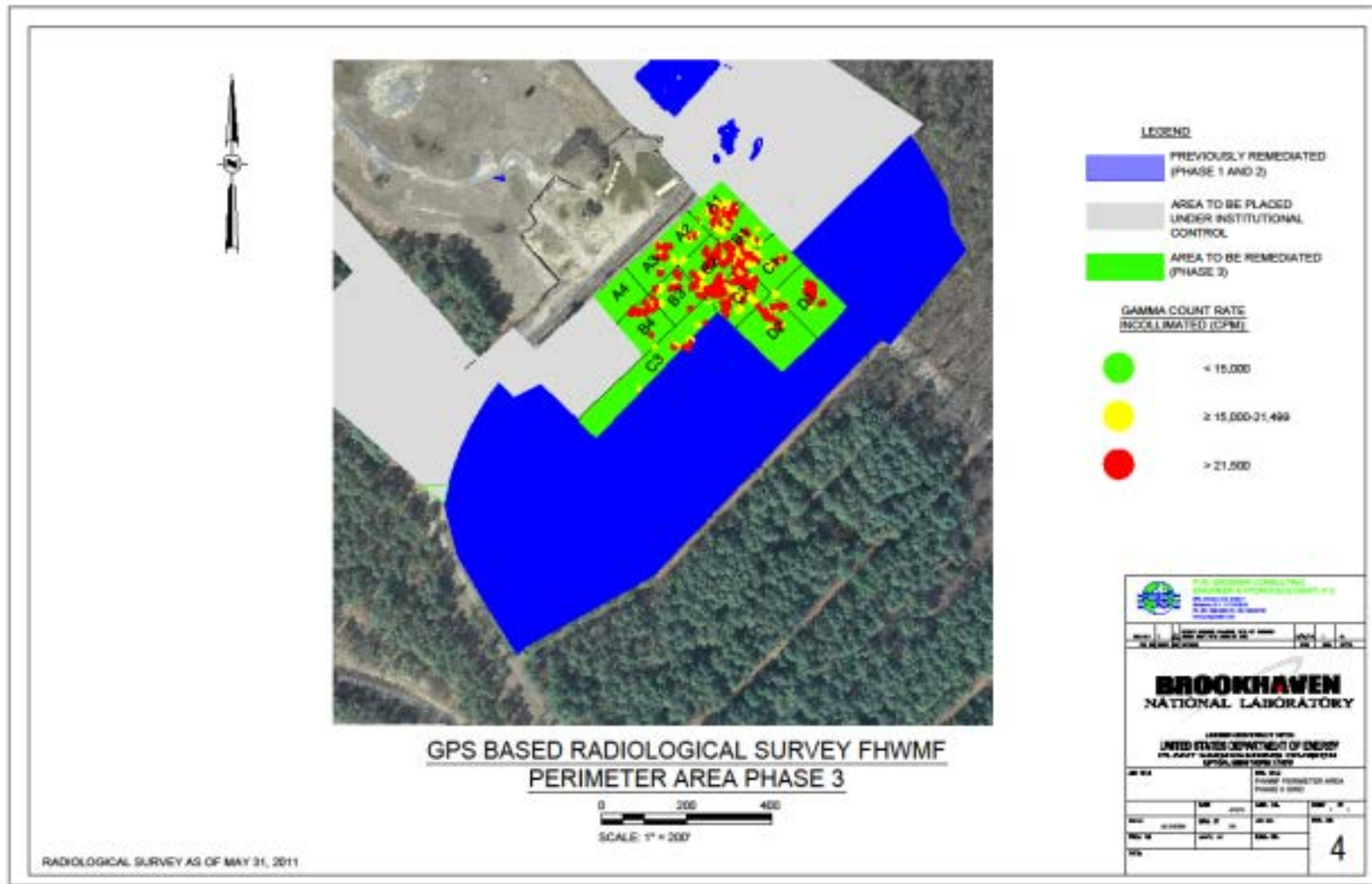


Background - Continued

- Cs-137 is the primary contaminant of concern
- Contamination is limited to top six inches to one foot of soil
- Most of the elevated Cs-137 results are discrete soil contamination locations except for the one area immediately northeast of the FHWMF (addressed during Phase 1)
- No groundwater impacts
- In December 2013, The FHWMF Perimeter Area was designated as Sub-Area of Concern 1J and is administratively included under the Operable Unit I Record of Decision



Phase 3 Area– Initial Survey Results



Phase 3 Area– Looking South

**Before Clearing Effort
(2009)**



**After Clearing Effort
(2010/2011)**



Path Forward

- Work planning for Phase 3 activities almost complete and project start date currently scheduled for May 1, 2014
- Scope of Work to include:
 - Excavation of contaminated soil above cleanup goals (23 pCi/g)
 - Completion of Final Status Survey and sampling, including Oak Ridge Institute for Science and Education (ORISE) independent verification
 - Post closure dose assessment in accordance with the Residual Radioactivity Computer Code (RESRAD)
 - Characterization, transportation and disposal of excavated soil
 - Implementation of institutional controls

Area with Institutional Controls

