
*U.S. Department of Energy
Office of Legacy Management*

Monument Valley, Arizona

September 2010



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Monitoring

- Semiannual groundwater sampling completed in June 2009
- Monitoring of contaminant uptake by plants is now conducted using satellite imagery
 - Plant sampling is no longer required
- Characterization of plant species in grazing plots was completed in August



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Monitoring

- Radon monitoring at the fence line was conducted by Navajo UMTRA/AML
- Next groundwater sampling is scheduled for December 2010



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Maintenance

- Upgrades to the fence line were completed in August
- Irrigation system will soon be shut down for the winter
- DOE transferred ownership of the Tuba City greenhouse to Diné College
 - Tentatively planning a formal ceremony after repairs are completed



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Pilot Study Activities

- The 2010 growing season was the final year planned for the pilot study
- Phytoremediation status report for this year will not be prepared
- The final recommendations report will begin this fall
- Additional NEPA may be required following completion of pilot studies

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Groundwater Ethanol Dispersion Study

- Ethanol dispersion study is a follow up to the injection study
- The effective distance of influence for the ethanol needs to be better determined to establish if ethanol might play a role in a final compliance strategy
- Four new wells were installed to support the study



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Former Evaporation Pond

Area of elevated uranium in the soils of the former evaporation pond

- Concentrations range from 70 to 1,500 mg/kg
- Activities range from 31 to 985 pCi/g
- Concentrations are below risk thresholds
- Area still meets the radium values used as a cleanup standard
- Ropes and postings will be removed



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New Well Installations

- Six new wells planned in the elevated uranium area this fall
 - Well installations using a Geoprobe[®] were unsuccessful initially so different methods are being used
- Well locations were determined in collaboration with Navajo UMTRA/AML
- Installation of three additional monitoring wells downgradient of the nitrate plume are also planned

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Schedule

- Final report, including recommendations for a path forward, will be prepared following the ethanol study and completed after January 1, 2011
- Preparation of a final GCAP planned to begin in 2011
- Prepare of an LTSP is anticipated in 2012