Corrective Measures Implementation & Report

Deployment of the Evapotranspirative Cover

After receiving conditional approval of the Corrective Measures Implementation (CMI) Plan on December 22, 2008, from the New Mexico Environment Department (NMED), construction of the evapotranspirative (ET) cover was completed from May 20 through September 3, 2009. The overall footprint of the ET cover is 4.1 acres including side slopes.

ET cover consists of three main layers (biointrusion barrier, compacted native soil, and topsoil layers) installed over the compacted subgrade.

Combined average thickness of the overlying ET Cover layers (Biointrusion, Native Soil, and Topsoil Layers) is 5.37 feet – approximately 1.2 feet thicker than the minimum design thickness.

All cover layers meet CMI Plan specifications based upon:
- 113 laboratory tests (Standard Proctor, Gradation, Classification, and Saturated Hydraulic Conductivity);
- 271 field tests (in-place density and moisture); and
- Visual inspections.

CMI Report

- CMI Report meets the requirements stipulated in the Final Order, the CMI Plan, and the December 2008 NMED conditional approval for the CMI Plan.
- The CMI Report documents that the deployment of the ET cover was performed in accordance with the requirements, specifications, and design drawings presented in the CMI Plan.
- The MWL Alternative Cover Report (Appendix A of the CMI Report) is certified by a New Mexico registered Professional Engineer and provides all required construction quality control documentation.
- With NMED approval of the CMI Report in October 2014, the Long-Term Monitoring and Maintenance Plan in January 2014, and Technical Area III Borrow Pit reclamation in June 2014, all conditions of the December 2008 CMI Plan conditional approval have been met.

ET Cover Design

- All ET cover construction activities were observed, inspected, and approved by an independent third-party Construction Quality Assurance (CQA) contractor.
- All design changes were identified, documented, and resolved in consultation between the Sandia Project Staff, the Construction Team, and the CQA Team.
- Overall, the design changes resulted in a thicker, more protective ET cover.

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