

Liner Documentation
Bottom Ash Pond
Sherburne County Generating Plant

This plan describes the existing liner for the Bottom Ash Pond (BAP) at the Sherburne County Generating Plant (Sherco) in Becker, Minnesota. BAP is an existing coal combustion residual (CCR) surface impoundment. This document addresses the requirements of 40 CFR §257.71.

The BAP does not have an existing liner that meets the criteria of §257.71. The BAP features an 18-inch compacted clay liner along the bottom of the pond and an vertical clay core located inside the embankment that is 20 feet wide along the bottom (elevation 938 feet MSL) and 10 feet wide at the top (elevation 998 feet MSL).

An in-place permeability test was conducted on the 18-inch clay featured at the bottom of the BAP. The result was a permeability of 1.64×10^{-8} centimeters per second (cm/s). At 18-inches at 1.64×10^{-8} cm/s the flux through the bottom of the pond would be less than that of a 2-foot clay liner at 1.0×10^{-7} cm/s.

See the Bottom Ash Pond History of Construction report prepared in accordance with §257.73(c) for references to BAP construction specifications and results.

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