

# TECHNICAL MEMORANDUM

Utah Coal Regulatory Program

---

January 2, 2007

ok

TO: Internal File

THRU: Wayne H. Western, Team Lead *WHW*

FROM: Priscilla Burton, CPSSc, Environmental Scientist III *PWB by an*

RE: Installation of Ventilation Shaft/Blowing Fan, Andalex Resources Inc., Centennial Project, C/007/0019, Task ID #2722

## SUMMARY:

In an application received October 25, 2006, and revised December 21, 2006, the immediate need for a ventilation fan shaft is described. An excavation of 15 ft of earth is required to reach bedrock before boring a shaft for the ventilation fan within the existing disturbed area. Excavated material will fall into the mine. Imported material will be used to reclaim the shaft. There is no change to the environmental soils information or the soils operation plan. This task was previously reviewed as Task 2679.

**TECHNICAL MEMO**

---

**TECHNICAL ANALYSIS:**

**OPERATION PLAN**

**RECLAMATION PLAN**

**MINE OPENINGS**

Regulatory Reference: 30 CFR Sec. 817.13, 817.14, 817.15; R645-301-513, -301-529, -301-551, -301-631, -301-748, -301-765, -301-748.

**Analysis:**

Backfilling of the 370 ft. X 16 ft diameter shaft will require 5,920 cu ft of fill if none is lost to the void. This translates to 219 cu yds. The Permittee calculated 2,755 cu yds, which allows for twelve times the volume of the cylinder created. This fill will be imported. The imported material will be analyzed for acid/toxic parameters (particle size analysis, pH, EC, SAR, Se, B, acid/base accounting) prior to placement as backfill in the borehole, as per R645-301-542.700 and according to the Division's Topsoil and Overburden guidelines.

**Findings:**

The information provided meets the requirements for reclamation of mine openings.

**RECOMMENDATIONS:**

Recommend approval.