



## Technical Analysis and Findings

### Utah Coal Regulatory Program

May 11, 2017

**PID:** C0410002  
**TaskID:** 5434  
**Mine Name:** SUFCO MINE  
**Title:** WASTE ROCK AS-BUILT SOILS

### Operation Plan

#### Topsoil and Subsoil

##### *Analysis:*

##### **Analysis:**

The waste rock site a-builts meet the requirements for Soil Handling/Operation Plan, because Operational Map 4B provides the current contours and as built volume of topsoil (27,900 CY) and subsoil (25,850 CY) held in stockpiles. The volume of topsoil stockpiled equates to 1.65 feet or 19 inches topsoil recovered on average. The volume of subsoil stockpiled equates to 1.53 feet or 18 inches subsoil recovered on average. (10.45 acres were reported disturbed in Phases 1 & 2 on Table 2016 in Chapter 2 of the MRP.)

As-Figure 8 provides the stockpiles design in cross section. Stockpiles are approximately 20 feet deep. Map 2G compares potential salvage in Phases 1 & 2 with actual as-built volumes in the stockpiles. Phases 3 - 6 utilize the Phase 2 stockpile volumes as a starting point for future estimates.

The waste rock site as-builts meet the requirements for Soil Survey Characterization. One composite sample was taken of the topsoil recovered from combined Phase 1 & 2, as well as five samples of the topsoil replaced on Lift #5. These soil samples were added to Appendix V Soils Report. The analysis of sample WRS Lift 5#5 indicates saline-sodic clay loam soil on the surface in one Lift 5 location. This location should be identified and visually monitored for signs of soil impermeability and plant toxicity.

pburton