

## 2.0 CLOSEOUT PLAN COMPONENTS

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This Supplemental Closeout Plan was prepared following the guidelines presented in the documents *Closeout Plan Guidelines for Existing Mines* (MARB 1996) and *Joint Guidance for the Cleanup and Reclamation of Existing Uranium Mining Operations in New Mexico* (EMNRD and NMED 2016). The components of the Plan described below are divided into two phases of work that are designed to reclaim the Section 12 Mine to a postmining land use of livestock grazing, and are consistent with the requirements and regulatory performance standards of the New Mexico Mining Act.

### 2.1 Phase I – East Area

The first phase of the Plan will focus on removing equipment and buildings, excavating two soil borrow pits (BP1 and BP2) and stockpiling the excavated material to provide 27,100 cubic yards of additional clean topsoil and subsoil cover, sealing the two air vents, excavating areas on the east side of the mine that exceed the PRRL and removing up to 19,362 cubic yards of waste rock/spoil materials from the ore loadout area and the 0.25 acres of adjoining BLM land in the SE/4 of Section 12 in the mine shaft.

Components of Phase 1 construction will include:

- Install erosion control measures prior to initiating construction
- Excavate topsoil and subsoil from two borrow pits (BP 1 and BP 2) to a six-foot depth and stockpile into a topsoil stockpile and a subsoil stockpile
- Remove equipment, fencing, and scrap metal from equipment yard and dispose of off-site
- Remove hoist and cables from headframe, remove obstructions around headframe to facilitate disposal of spoil and waste rock materials from the first (Phase 1) and second phases (Phase 2) of work into shaft
- Remove remaining stockpiled ore
- Building demolition and removal
- Excavate materials with elevated gamma radiation readings from the east half of mine and from adjoining 0.25 acre of BLM land in the SE/4 of Section 12, and dispose in mine shaft at headframe.
- Backfill and cover excavated areas in east half of mine and adjoining 0.25 acre of BLM land in the SE/4 of Section 12 with clean fill material from the borrow pit's topsoil and subsoil stockpiles
- Seal two air vents and cover with fill from the borrow pit's topsoil and subsoil stockpiles
- Grade and contour east half of mine and adjoining 0.25 acre of BLM land in the SE/4 of Section 12.
- Seed eastern half of mine and adjoining 0.25 acre of BLM land in the SE/4 of Section 12 with approved seed and mulch mix, construct fence and silt fence structure around these areas to prevent wind erosion and run-on from western half of reclamation.
- Conduct post-reclamation gamma verification survey of east half of mine and adjoining 0.25 acre of BLM land in the SE/4 of Section 12, and submit survey results with final construction report to MMD and BLM

### 2.2 Phase 2 – West Area

The second phase of construction will focus on removing waste rock and spoil materials from the western side of the mine area and placing it in the mine shaft. Excavated areas will be covered with cover from the project area including the two borrow pits. The headframe will be removed and the mine shaft will be sealed.

- Install erosion control measures prior to initiating construction
- Excavate waste rock, spoil materials with elevated gamma radiation readings in the west half of mine and access road and place materials in mine shaft
- Backfill and cover excavated areas in west half of mine with clean fill material from the project area including the two borrow pits
- Headframe demolition and removal
- Seal mine shaft
- Replace excavated fill in segments of access road with clean fill and compact to achieve original grade and roadbed stability
- Grade and contour west half of mine to retain original elevation of mine's facilities and operations area at the headframe while balancing amounts of and placement of fill
- Seed western half of mine with approved seed and mulch mix
- Conduct post-reclamation gamma verification survey of west half of mine and access road and submit survey results with final construction report to MMD
- Install fence and silt fence around mine's reclamation to reduce impacts from livestock grazing
- Conduct annual monitoring of reclamation across entire mine area and submit annual report to MMD

**Table 1. Reclamation Cost Summary**

Category	Activities	Cost
<b>Phase 1 Construction</b>		
Site Preparation	Install sediment control measures such as silt fences, straw bails, and sediment	
<b>Phase 1 Direct Closure Construction Cost Subtotal</b>		
<b>Phase 1 Indirect Construction Cost</b>		
<b>Phase 1 Total Estimated Reclamation Cost</b>		

<b>Phase 2 Direct Closure Construction Cost Subtotal</b>		
<b>Phase 2 Indirect Construction Cost</b>		
<b>Phase 2 Total Estimated Reclamation Cost</b>		
<b>Direct Post-Construction Closure Monitoring Cost</b>		
<b>Total Estimated Project Cost</b>		