

Memorandum

From: Rob Zuber, DRMS

To: C-1996-083 File

Date: June 28, 2024

Re: Summary of the bond compliance assessment for the Bowie Number 2 Mine

This memorandum addresses the question: is the Bowie Number 2 Mine (C-1996-083) sufficiently bonded? It is the product of an extensive review of the Permit Application Package (PAP) for this site as well as the Reclamation Cost Estimate (RCE) for the site that was updated with Renewal Number 5 (RN-05) in 2023.

In addition to the office review of the PAP and RCE, this effort entailed extensive field work to determine if the on-the-ground conditions match the Mining and Reclamation Plans (in the PAP) and the RCE. The inspections entailed observations of the site conditions, the use of GPS technology, and distance measurements with a laser instrument.

The PAP for the Bowie Number 2 Mine entails several volumes of text, figures, and maps. Some pertinent parts of the PAP for the check of bond compliance include Section 2.05 and maps. The Map 15 series (Sheets 1 – 4) was especially useful.

The RCE was calculated using the Division's cost estimating software, CIRCES. The cost summary and individual tasks from this software are available in the Division's Laserfiche imaging system (within the RN-05 records), within the CIRCES software (for Division staff), or upon request.

The field work entailed inspection in April, May, and June 2024.

More details related to the results of these efforts are available upon request.

Action Items

The following need to be added to the RCE in 2024, likely with the midterm review in October.

- It appears that there are no tasks for backfilling and grading the Utility Bench. These need to be added.
- In the demolition tasks for the Utility Bench, several volumes appear to be too small, namely for the mine vent fan, the water treatment building, and the water tank.
- For the construction of a channel at the B-Portal Bench, it appears that a task should be added for the placement of riprap.
- At the B-Portal Bench there is a wash bay, but there appears to be no item for demolition of this structure.
- It appears that there are no tasks, such as grading, specific to the reclamation of conveyor corridors.
- The Upland Conveyor is missing from the demolition task.
- The bent protectors at the Coal Stockpile pad are missing from the demolition task.
- There does not appear to be a task for moving topsoil to Pond B.