

Remediation Plan

1. November 30, 2019: Complete New Pond Construction

Construct three new ponds below the refuse impoundment in Little Hackers Creek eliminating existing Outlet 001 and replacing it with Outlet 019. Existing approved design will be revised to incorporate self-charging dewatering siphons in Ponds No. 1B and 1C in order to provide additional surge capacity. The dewatering siphons will be designed and installed to lower the water level in the structures to an elevation of 40% of the original design capacity. The projected start date for this activity is September 30, 2019. Prepare and submit revision to SMCRA permit O-113-83 for the siphon revision. Projected submittal date of May 31, 2019; approval needed by September 1, 2019.

2. June 1, 2020: Complete Clean-out of Freshwater Pond

Trapped sediments will be removed from the existing freshwater pond, Outlet 005. The freshwater pond currently provides water to the underground mine for dust and fire suppression along with make-up water for the preparation plant. Removal of the trapped sediments will optimize the capacity in the structure to store water that would otherwise discharge through Outlet 001 and allow that water to be discharged directly to the Tygart Valley River where it will be diluted to minimize its impacts. The projected start date for this activity is September 30, 2019. No permitting actions are required to implement this step.

3. September 30, 2020: Install Waterlines from Berryburg and West Mains Dewatering Holes to Head Tank

Install waterlines and necessary power to direct the pumped discharge from the Berryburg and West Main underground workings to the head tank. The projected start date for this activity is April 30, 2020. Permitting actions under this stage will be incorporated into the permitting actions under Stage 4 above.

4. October 1, 2020: Complete Preparation of Head Tank Installation Area and Install Head Tank

a. Excavate and construct the pad area for installation of a head tank. The head tank will serve as an additional reservoir that will both reduce the potential for surge discharges and serve as a backup reservoir for needed make up water at the preparation plant. The projected start date for this activity is January 31, 2020.

i. Prepare and submit an Incidental Boundary Revision (IBR) to SMCRA permit O-113-83 adding the area for construction of the head tank. Prepare and submit a Minor Revision to NPDES Permit No. WV0043273 showing the proposed activity. Projected submittal date is June 30, 2019; approval needed by September 1, 2019.

b. Assuming permits are timely approved for head tank pad construction, install head tank, overflow lines to freshwater pond and plant feed lines. The projected start date for this activity is April 30, 2020.

i. Prepare and submit a Minor permit revision to SMCRA permit U-15-83 showing the additional flow sources that will be directed to the existing freshwater pond, Outlet 005. Prepare and submit a Major Revision to NPDES Permit No. WV0043273 showing the proposed activity, adding the final discharge outlet to the Tygart River.

ii. Prepare and submit an application for coverage under the Construction Stormwater General Permit to convert the existing water intake line from the Tygart River into a bidirectional system that will be used to direct excess system water to the Tygart River and when needed reversed to bring

additional water from the Tygart River to the facility. Projected submittal date is August 31, 2019; approval needed by April 1, 2020 to meet deadline.

5. October 31, 2020: Installation of Pump and Waterline at Refuse Ponds

Install pump and waterline at Outlet 019 (Refuse Toe Ponds) to allow pumping of average flows from the ponds to the head tank. The projected start date for this activity is April 30, 2020. Permitting actions under this stage will be incorporated as part of the permitting actions under Stage 4 above.

6. October 31, 2020: Complete or Connect Line to Carry Water to Tygart Valley River

Complete conversion/construction of line to carry water, as necessary, from the freshwater pond to the Tygart River. The projected start date for this activity is August 31, 2020. Permitting actions under this stage will be incorporated into the permitting actions under Stage 4 above.

7. March 31, 2021: Complete Freshwater Diversion

Construct freshwater diversion ditch to route overland surface flow around the refuse impoundment so as to join Little Hackers Creek downstream of the new ponds constructed below the refuse impoundment. No additional permitting actions required.