



Enclosed map was included with email to Daniel Ryan dated March 28, 2023

Flocculant Addition Plan

The on-site plan is to run without need for flocculant addition. The introduction of curtains in SP-1 has been made in efforts to reduce suspended solids. If sampling at SP-1 dictates that suspended solids are at levels that are not compliant, the following plan is to be implemented.

- Flocculant addition is to occur in the pit area prior to the pumped water reaching CD-1, in efforts to reduce suspended solids at SP-1.
- Enviro-floc CF-1 as specifies in pages 13-18 to 13-24 of the Module 13 submission to the Pennsylvania Department of Environmental Protection is the proposed Flocc to be used on the mining site covered under SMP 63192001.
- Flocculant addition will occur at one location, only while pumping is occurring, and the flocculant drip will be directed toward the pumped water stream. The addition location is the sump location of the main pit. Flow distance from addition of the floc to the SP-1 is approximately 1,400'.
- Flocculant addition will only occur when suspended solids levels have been shown to be high.
- When there is water being pumped from pit, the addition is planned to be drips at approximately 7.5 ml. every 30 seconds. Based pumping of 250 gallons a minute the flocculent addition is determined to be 1 ml per 16.7 gallons of pumped water.
- Prior to starting the flocculant drip application, SP-1 will not be flowing from the emergency or principal spillway and that the dewatering valve will be turned off.
- Approximate flocculant location is show in the main pit on the Exhibit 9 and 15.2 mapping of the Maggie Lynn underground mining operation.
- Any changes to the Flocculant Addition Plan must be submitted to the PFBC for approval and a revised Flocculant Addition Plan will be submitted to the New Stanton DMO as a minor revision to the permit.
- Pages 13-18 through 13-30 are an integral part of the Flocculant Addition Plan and includes correspondence with the PFBC and the map and the Safety Data Sheets for Enviro-Floc CF-1 sent to PFBC.