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November 19, 1986

TO: Technical File

FROM: Rick P. Summers, Reclamation Hydrologist *RPS*

RE: Review of Reclamation Permit Application, Summit Minerals, Inc., Blackhawk Mine, INA/043/001, Summit County, Utah

Summary

The above referenced application (dated November 6, 1986) was reviewed pursuant to hydrology related regulations on November 18-20, 1986. The application is considerably complete at this time with only minor deficiencies that will need to be addressed prior to a determination of completeness. The deficiencies are specified in the following memo.

UMC 783.13 Description of Hydrology and Geology: General Requirements - RPS

This section has been addressed. The information is located on pps. 783.12-1 through 783.15-11 and pps. 783.16-1 through 783.16-12.

UMC 783.15 Ground Water Information - RPS

- (a)(4) The permit application should be updated to contain water quality data obtained through 11/86 as part of the Small Operator's Assistance Program.
- (b) The application should include the description of the groundwater resource (as applicable) contained in the Final Report for the SOAP program.

The application should propose to conduct a spring seep and spring survey to determine the seasonality of these water sources in the area.

UMC 783.16 Surface Water Information - RPS

- (a) The application should depict the location of all ponds in the general area.

- (b) The application should present the water quality data in a graphical format to depict the seasonal variations for the parameters required by (b)(2)(i) through (vi).

UMC 784.11 Operation Plan: General Requirements - RPS

- (b)(1) The application should discuss the construction requirements and dewatering methods (i.e. manual dewatering only to occur following a 24 hour detention period) for the sedimentation pond.

UMC 784.13 Reclamation Plan: General Requirements - RPS

- (b)(1) The reclamation timetable presented on page RP-5 should include the water monitoring period (required by UMC 817.46) and the final removal/regrading of the sedimentation ponds and associated diversions.
- (b)(3) The application should propose a construction period monitoring program as outlined in the enclosed Guidelines for Water Quality Monitoring.

The applicant must commit to collecting flow data with each water quality sample. The interpretation of variations in quality parameters relative to possible sources/causes of those variations is difficult if not impossible without a flow measurement. It should be noted that ocular methods for this measurement are not acceptable.

The application should commit to submitting all water monitoring data within 90 days of receipt of the sample results [see also UMC 817.52 (b)(1)(iii)]. The commitment should also include results from the NPDES monitoring program.

The application should depict a monitoring point(s) and plan (i.e. frequency, parameters, instrumentation, etc.) for drainage entering the sedimentation pond to demonstrate compliance with UMC 817.46 (u).

UMC 784.16 Reclamation Plan: Ponds, Impoundments, Banks, And, Embankments - RPS

- (b)(1) The application should give the elevation of the dewatering device outlet and the elevation of the proposed maximum sediment volume.

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The application should contain a commitment to submit the certification statement required by UMC 817.46 (r) to the Division within 30 days following completion of the sedimentation pond.

UMC 817.11 Signs and Markers - RPS

- (e) The application should commit to placement of buffer zone signs as required by this regulation.

UMC 817.153, .163, .173 Roads: Drainage - RPS

- (a)(3) The application should contain plans for the removal of the bridge and road unless the road is to remain as part of the post-mining land use. If this proposal is made, the applicant must address UMC 817.133 (b)(5) and (6). The applicant is encouraged to contact the Division for guidance in the preparation of this response.

jvb
cc: R. Harden
S. Linner
6000R-78