

July 6, 2006

Charles Reynolds, Resident Agent
Co-Op Mining Company
P.O. Box 1245
Huntington, Utah 84528

Subject: Wild Horse Ridge Tank Seam As-built/Snow Storage, Task # 2523, Co-Op Mining Company, Bear Canyon Mine, C/015/0025

Dear Mr. Reynolds:

The above-referenced amendment has been reviewed. There are deficiencies that must be adequately addressed prior to approval. A copy of our deficiency list is enclosed for your information. In order for us to continue to process your application, please respond to these deficiencies by August 7, 2006

If you have any questions, please call me at (801) 538-5286, Jim Smith at (801) 538-5262, or Pete Hess at (435) 613-114, Ext. 203.

Sincerely,

Wayne Hedberg,
Permit Supervisor

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Enclosure
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DEFICIENCY LIST
Task No. 2523

R645-301-742.300, Plate 7-5A shows the watersheds, along with drainages and diversions for the #3 and #4 Mine areas. There are a number of discrepancies between this map and Tables 7-24 and 7-25. The Permittee must re-examine Plate 7-5A and Tables 7-24 and 7-25 and reconcile ambiguous and contradictory information. This includes but is not limited to the following:

- Culvert C-39U is shown on Plate 7-5A. Table 7-25 indicates that for this culvert information in the Culvert and Type columns is to be removed from the table and information in the other columns remains, although modified. The Permittee needs to clarify this.
- Plate 7-5A and Tables 7-24 and 7-25 show runoff from drainage AU-22 reporting to D-42U, C39U, D-37U, and D-38U; however, Tables 7-24 and 7-25 do not show that runoff from drainage AU-22 was included in sizing calculations for subsequent down stream structures such as D-31U, C-29U and C-28U. The Permittee needs to include runoff from AU-22 is included in the sizing calculations for structures downstream of D-37U.
- Undisturbed drainages AU-20- AU-21, AU-22, AU-25, AU-26, and AU-30 eventually report to D-24U. The Permittee needs to size D-24U – at least the lower end –to carry runoff not only from AU-35 and AD-17, as shown in Table 7-24, but also from all the undisturbed drainages upgradient of C-28U.
- The Permittee needs to include runoff from drainage AU-23 in the design calculations for C-33U in Table 7-25.
- The Permittee needs to include runoff from drainages AU-23 and AU-28A in the design calculations for D-34U in Table 7-24.
- Table 7-25 indicates runoff from drainage AU-22 has been included in the design calculations for C-32 U and C-27U, but AU-22 does not report to those structures. The Permittee needs to correct this in Table 7-25.
- Plate 7-5A has two culverts labeled C-34U: the Permittee needs to clarify this.
- Table 7-24 indicates drainage AU-26 reports to D-23U, but on Plate 7-5A, the main channel appears to separate AU-26 from D23U. The Permittee needs to clarify this on Plate 7-5A and in Table 7-24.
- Plate 7-5A is confusing because although Table 7-25 shows C-30U, C-36U, and C-37U have been abandoned in place, they appear to still be part of the drainage system on Plate 7-5A. On Plate 7-1G, C-37U is labeled as abandoned, but not C-30U or C-36U. The Permittee needs to clearly indicate on Plate 7-5A and 7-1G that these structures have been abandoned in place and no longer function as part of the sediment and erosion control drainage system. Also update Table 7-25, which incorrectly shows C-30U still reports to C-26U.
- The proposed changes to Table 7-25 indicate C-25U and C-40U are to be removed from the table. C-40U is shown on Plate 7-1G. The Permittee needs to

clarify whether culverts C-25U and C-40U were never built or were abandoned in place, and, if needed, indicate and label these culverts on Plates 7-1G and 7-5A.

- Table 7-25 indicates drainage AU-43 reports to C-28U, but Plate 7-5A shows this should be AU-34. The Permittee needs to correct this.
- Table 7-25 indicates drainage AU-34 reports to C-23U, but Plate 7-5A shows this should be AU-43. The Permittee needs to correct this.
- Table 7-25 shows AU-25 reporting to both C-22U by way of D-22U and to C-29U by way of D-30U. Even though the exact location of C-22U is not clear from Plate 7-5A, C-22U and C-29U do not appear to share a common flow stream. The Permittee needs to clarify the location of C-22U on Plate 7-5A and which drainage(s) report to it in Table 7-25. The Permittee needs to reconcile Plate 7-5A and Table 7-24 and clarify which ditches and culverts receive the runoff from AU-25.
- According to Table 7-25, AD-17 and AU-30 were not included in the sizing calculations of C-23U. The Permittee needs to include runoff from drainages AD-17 and AU-30 in designing C-23U.
- Table 7-24 indicates AU-42 reports to D-20U, but D-20U is not shown on plate 7-5A.
- Plate 7-5A shows AD-16, but not D-15D that receives the runoff. On page 7G-3, AD-16 is described as an ASCA. The Permittee needs to show D-15D on Plate 7-5A.

R645-301-742.300, After the discrepancies in Plate 7-5A and Tables 7-24 and 7-25 have been remedied, the Permittee must recalculate all affected hydrograph values and channel-sizing worksheets in Appendix 7G.

R645-301-121.200, BTCA Area L is described on page 7K-14 as being "...two areas along the lower portion of the WHR Tank Seam Access Road." Plate 7-1G shows it as two areas on the upper portion of the WHR Tank Seam Access Road, just below the #4 Mine pad. The Permittee needs to clarify the description of the location of BTCA area L on page 7K-14.

R645-301-121.200, BTCA Area N is described on page 7K-15 as being "...located below the second switchback on the WHR Tank Seam Access Road." Plate 7-1G shows it as two areas on the #4 Mine pad. The Permittee needs to clarify the description of the location of BTCA area N on page 7K-15.

R645-301-121.200, On Plate 7-1G, the Permittee needs to describe in the LEGEND the numerous lines, roughly perpendicular to the centerline and of varying lengths, that are drawn across the road between C-34U and C-26U.