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# TECHNICAL MEMORANDUM

Utah Coal Regulatory Program

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August 1, 2011

TO: Internal File *10074*

THRU: Ingrid Campbell, Mine Lead *IC*

FROM: Steve Christensen, Environmental Scientist *SKC*

RE: Updated Surface Maps, West Ridge Resources, West Ridge Mine, C/007/0041, Task ID #3873

**SUMMARY:**

On July 19<sup>th</sup>, 2011, the Division of Oil, Gas and Mining (the Division) received an amendment to the West Ridge Mining and Reclamation Plan (MRP). The amendment was submitted by West Ridge Resources (the Permittee).

The amendment revises two of the approved plates within the MRP (Plate 5-5, Surface Facility Map and Plate 7-2, Mine Site Drainage Map). The revisions to the plates were necessitated by the construction/installation of methane drainage pumps.

The amendment does not meet the requirements of the State of Utah R645-Coal Mining Rules. The following deficiency must be addressed prior to final approval:

**R645-301-530, -731, -740 and -742.300:** The Permittee must revise Appendix 7-4, West Ridge Mine Sedimentation and Drainage Control Plan (As Constructed). The revision must provide the detailed design drawings and sizing calculations for the 4' x 4' collection box that was installed. The revision should address the function and sizing considerations for disturbed drainage culvert DC-2 relative to the installation of the collection box.

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**TECHNICAL ANALYSIS:**

**OPERATION PLAN**

**HYDROLOGIC INFORMATION**

Regulatory Reference: 30 CFR Sec. 773.17, 774.13, 784.14, 784.16, 784.29, 817.41, 817.42, 817.43, 817.45, 817.49, 817.56, 817.57; R645-300-140, -300-141, -300-142, -300-143, -300-144, -300-145, -300-146, -300-147, -300-148, -301-512, -301-514, -301-521, -301-531, -301-532, -301-533, -301-536, -301-542, -301-720, -301-731, -301-732, -301-733, -301-742, -301-743, -301-750, -301-761, -301-764.

**Analysis:**

**Diversions: General**

The amendment does not meet the Diversions requirements of the State of Utah R645-Coal Mining Rules.

The amendment revises two of the approved plates within the MRP (Plate 5-5, Surface Facility Map and Plate 7-2, Mine Site Drainage Map). The revisions to the plates were necessitated by the construction/installation of methane drainage pumps.

Plate 5-5, Surface Facility map depicts the location of the methane drainage pumps as Item #44, Methane Drainage Pumps. The pumps are located approximately 75' southwest of the magnesium chloride tank (Item #31).

Plate 7-2, does not depict the location of the methane drainage pumps, however; it appears that in order to facilitate the installation of the methane drainage pumps, disturbed drainage culvert DC-2 was extended (approximately 75'). Disturbed drainage culvert DC-2 conveys disturbed area drainage received from disturbed area ditches DD-1, DD-2 and DD-3. As the disturbed watershed boundaries have not changed as result of the methane drainage pump installations, it would appear that the sizing considerations/calculations utilized to size the extension of culvert DC-2 would remain unchanged.

Plate 7-2 Mine Site Drainage Map depicts the installation of a 4' x 4' collection box. The collection box has been installed at the junction of disturbed drainage ditches DD-2 and DD-3 and routes the discharge into disturbed drainage DD-4.

The amendment does not contain the detailed design drawings and specifications that were utilized in sizing and constructing the collection box.

The Permittee must revise Appendix 7-4, West Ridge Mine Sedimentation and Drainage Control Plan (As Constructed). The revision must provide the detailed design drawings and sizing calculations for the 4' x 4' collection box that was installed.

**Findings:**

The amendment does not meet the requirements of the State of Utah R645-Coal Mining Rules. The following deficiency must be addressed prior to final approval:

**R645-301-530, -731, -740 and -742.300:** The Permittee must revise Appendix 7-4, West Ridge Mine Sedimentation and Drainage Control Plan (As Constructed). The revision must provide the detailed design drawings and sizing calculations for the 4' x 4' collection box that was installed. The revision should address the function and sizing considerations for disturbed drainage culvert DC-2 relative to the installation of the collection box.

**RECOMMENDATIONS:**

The amendment is not recommended for approval at this time.