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**Technical Analysis and Findings**  
**Utah Coal Regulatory Program**

November 13, 2015

**PID:** C0250005  
**TaskID:** 5012  
**Mine Name:** COAL HOLLOW  
**Title:** PIPELINE FROM PIT 10 TO SED POND 3

**Summary**

This is the fourth review of the Pit 10 to Sediment Pond 3 and the updated design to Pond 1. The Pond 1 amendment was requested by the Division inspector when it was determined the pond was short circuiting and not adequately treating runoff. Pond 1 update was originally submitted under Pond 1 and Water Valve Task ID #4894. The Pit 10 to Pond 3 section of this amendment is linked to underground mining in Pit 10. The Permittee has initiated an underground mine and Pit 10 de-watering system and will pump excess water to Sediment Pond 3. This excess water from Pit 10 and underground operations will be discharged through UPDES 003. The Pond 1 amendment is relatively straight forward. The Pit 10 to Pond 3 amendment is more complex because it deals with pond sizing and erosion prevention/stabilization measures.

*Deficiencies Details:*

kstorrar

**Environmental Resource Information**

**Probable Hydrologic Consequences Determination**

*Analysis:*

The amendment meets the State of Utah R645 Requirements for Hydrology: Standards of Success. The Permittee has included an aerial photo showing the junction between the channel carrying outflow from Sediment Pond 3 and Lower Robinson Creek. If mine water is continuously discharged to Lower Robinson Creek through this small channel it will be important to monitor this area for any potential streamflow alteration. At this time this section of channel only carries short-term, infrequent flows when Sediment Pond 3 discharges, so it appears to be fairly stable.

kstorrar

**Operation Plan**

**Spoil Waste Impounding Structures**

*Analysis:*

The application meets the minimum standards of R645-301-533 due to text updates within the MRP text in regards to Appendix 5-13 and discussion of the additional flow to Sediment Pond 3.

- The Permittee updated the MRP text to include updated references and information found in Appendix 5-13:
  - o Chapter 5 Section 526.300, page 5-38
  - o Chapter 5 Section 531, page 5-54
  - o Chapter 5 Section 533.700, page 5-57

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## Hydrologic Diversion General

### Analysis:

The amendment meets the State of Utah R645 Requirements for Hydrology: Standards of Success. The Permittee has provided a narrative, calculations, and an updated drawing of how runoff will be diverted in a protected channel as Ditch 4 drains into Sediment Pond 3. This channel was previously unprotected and was beginning to scour in the bed of the ditch. The Permittee has added riprap to further protect this channel.

kstorar

## Hydrologic Siltation Treatment

### Analysis:

The amendment meets the State of Utah R645 Requirements for Hydrology: Standards of Success. The Permittee has adequately shown Sediment Pond 3 is sized to treat surface runoff from Watershed 3 during a 10 year / 24 hour rain event and continuous mine water discharge from underground mining activities. The application demonstrates if continuous mine water discharge holds the static water level of Pond 3 at the elevation of the decant pipe there is 4.98 acre ft storage capacity remaining to treat 4.95 acre ft of runoff from Watershed 3 during a 10 year / 24 hour event.

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## Support Facilities and Utility Installations

### Analysis:

The application meets the minimum requirements of R645-301-521.180 and -526 the require the description, plans, and drawing for each support facility to be constructed, used, or maintained within the proposed permit area. Text updates were made in the following sections within the MRP in regards to Appendix 5-13 and discussion of the additional flow to Sediment Pond 3.

- The Permittee updated the MRP text to include updated references and information found in Appendix 5-13:
  - o Chapter 5 Section 526.300, page 5-38
  - o Chapter 5 Section 531, page 5-54
  - o Chapter 5 Section 533.700, page 5-57

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## Maps Facilities

### Analysis:

The application meets the minimum requirements of R645-301-521.120 through-521.125 which require maps to clearly show existing surface and subsurface facilities. The stage storage capacity table on Pond 3 and Pond 1 drawing was updated to reflect the as built designs.

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## Maps Certification Requirements

### Analysis:

R645-301-512 minimum requirements are met as all mine drawings and plates are stamped by a Utah certified professional engineer with experience in underground mining operations.

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## Reclamation Plan

## General Requirements

### Analysis:

The minimum requirements of R645-301-540 are met within the application as there is no change to the existing MRP reclamation details. All pipes will be disconnected five feet below the surface, capped and then backfilled. The buried pipes will remain in place.

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## Backfill and Grading General

### Analysis:

The minimum requirements of R645-301-553 are met within the application as there is no change to the existing MRP grading reclamation details.

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## Maps Reclamation Final Surface Configuration

### Analysis:

The minimum requirements of R645-301-542 are met within the application as there is no change to the existing MRP plan of the estimated final surface configuration back to AOC.

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## Bonding and Insurance General

### Analysis:

The application meets the minimum requirements of R645-301-800 as the applicant is current on the bond and insurance standings.

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