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**FINDINGS DOCUMENT**  
**Utah Coal Regulatory Program**

<b>PID:</b>	<b>C0150032</b>
<b>TaskID:</b>	<b>4384</b>
<b>Mine Name:</b>	<b>CRANDALL CANYON MINE</b>
<b>Title:</b>	<b>REVISION FOR POND CLEANING</b>

**General Contents**

**Permit Application**

*Analysis:*

*Meets Requirements*

The amendment meets the Permit Application Format and Contents requirements of the State of Utah R645 Coal Mining Rules. The following deficiencies must be addressed prior to final approval:

The previous technical analysis (Task ID #4372) identified a deficiency on the cover page of Appendix 7-4, Crandall Canyon Mine Sedimentation and Drainage Control Plan.

At the bottom of that page, the Permittee had changed the revised date from November 2009 to June of 2005. The cover page for Appendix 7-4 in the approved MRP on file with the Division shows a revised date of September 2010 with Dan Guyâ€™s professional engineer certification stamp dated September 14th, 2010. Itâ€™s unclear why the revised date for Appendix 7-4 was changed and why that date does not match the approved MRP. The Permittee was directed to provide a revision date that reflects the current amendment.

Upon review of the most recent amendment, the Permittee has changed the revision date on the cover page of Appendix 7-4 to July 2013.

The previous technical analysis (Task ID #4372) also identified a pagination deficiency with the submitted revisions to Appendix 7-4. The submitted page 37 was identified as page 36 in the approved MRP. Additionally, two different versions of page 38 were submitted with the previous amendment. The Permittee has revised the amendment to correct the identified pagination issues.

*schriste*

**Operation Plan**

**Hydro Siltation Sedimentation**

*Analysis:*

*Meets Requirements*

The amendment meets the Siltation Structures: Sedimentation Pond requirements of the State of Utah R645 Coal Mining Rules.

Based upon field inspections by Division staff and personal communications with the Permittee, the sediment pond has been cleaned of all the accumulated sediment/sludge material. During the clean-out operations, it was determined that the clay lining thickness of the sediment pond was not the required thickness (10-12 inches). The Permittee is currently in the process of re-establishing the clay liner in the sediment pond. However; as stated previously, the sediment pond has been cleaned out of accumulated material. Division staff will verify the thickness of the clay liner once it is in place.

The Permittee has submitted a revised Plate 7-3, Crandall Canyon Mine Sediment Pond (As-Built). The plate calls out a typical sediment marker. The Permittee will install three markers within the pond (per NOV #10105). The sediment markers will be painted three different colors to delineate the compliant sediment level, 60% cleanout level (7,769 feet) and the maximum sediment cleanout elevation (7,770 feet). The marker will be painted green from the bottom of the pond to the 60% cleanout level. From the 60% cleanout level to the maximum sediment cleanout elevation, the marker will be painted yellow. At the maximum sediment cleanout elevation and above, the marker will be painted red. With the painted markers, it will be very easy to inspect the pond and determine if the storage capacity is adequate based upon the design.

The markers will also show the 10-year, 24-hour design storm elevation (7,773.2 feet). Based upon the typical sediment marker call out on Plate 7-3, the top of the three markers to be established in the sediment pond will be set at an elevation of 7,773.2 feet.

NOV #10105 also directed the Permittee to revise the text within the MRP to discuss the newly installed sediment markers and they will be utilized in determining when the sediment pond requires cleaning. Additionally, NOV #10105 directed the Permittee to provide a commitment that clean-out operations will be initiated based upon inspection of the sediment markers and that at no time will the water level in the pond be allowed to surpass the 10-year, 24-hour event.

On page 38 of Appendix 7-4 and page 7 of Appendix 7-65, the Permittee provides the requested text revisions:

“Clean-out operations will be initiated at the sediment pond based upon inspection of the sediment markers. Cleanout operations will be initiated when the sediment level is between the 60% and maximum level. At no time will the sediment level be allowed to exceed the 100% level as determined by Table 12. The water level of the pond will not be allowed to exceed 7,773.2 feet which still allows for a 10 Year 24 hour event.”

**schriste**