



**State of Utah**  
 DEPARTMENT OF NATURAL RESOURCES  
 MICHAEL R. STYLER  
*Executive Director*  
 Division of Oil, Gas and Mining  
 JOHN R. BAZA  
*Division Director*

## Technical Analysis and Findings

### Utah Coal Regulatory Program

July 8, 2016

**PID:** C0250005  
**TaskID:** 5236  
**Mine Name:** COAL HOLLOW  
**Title:** DRAINAGE CONTROL MODS FOR PIT 10 (21167)

### Summary

On June 30th, 2016 the Division of Oil, Gas and Mining (the Division) received the amendment 'Drainage Control for Pit 10' in response to NOV 21167 at the Coal Hollow mine from Alton Coal Development (the Permittee). The amendment is assigned to Task #5236. This is the second round of reviewing drainage in Pit 10. The prior amendment was assigned Task #5180.

#### Deficiencies Details:

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### Operation Plan

#### Hydrologic Water Quality Standards

##### Analysis:

The amendment meets the State of Utah R645 requirements for Water-Quality Standards.

The amendment adds an additional settling basin in the bottom of Pit 10. This extra settling basin will reduce the amount of suspended sediment picked up by runoff flowing to the bottom of the pit. The realignment of ditches and additional culverts will further reduce the suspended sediment load making to the bottom of the pit.

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#### Hydrologic Diversion General

##### Analysis:

The amendment meets the State of Utah R645 requirements for Diversions.

The amendment provides a narrative, calculations, and a map detailing the layout of diversion ditches within Pit 10. When velocities are shown to exceed the erosive velocity of 5 fps the amendment provides erosion control solutions to stabilize it such as lining and rip-rapping the ditch.

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