

Incoming
C0150025
#4144
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June 18, 2012

Utah Division of Oil, Gas, and Mining Coal Program
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, Utah 84114-5801

RECEIVED
JUL 10 2012
DIV. OF OIL, GAS & MINING

Subject: Permit Amendment Submittal Hydrology Monitoring Plan.
Castle Valley Mining LLC, C/015/0025

To whom it may concern,

Castle Valley Mining LLC located in Huntington, Utah would like to submit a revised hydrology monitoring amendment as well as a surface facilities amendment to permit, number C/015/0025. This package includes notarized C1C2 forms and three copies of the following: redline version of changes to the MRP for your review. Please review and provide us with your comments.

The attached proposed changes to the MRP reflect a change in the inactive monitoring locations. The following are the current locations: FC-2, 3, 4, 6, 7, 8 SBC-18, 20, 21, 22, and SCC-2 are currently inactive on Chapter 7 table 7-14 of the MRP. Chapter 7 table 7-14 specifies activation of these locations when mining in the area sited. Castle Valley Mining will be mining in these areas and propose activating them at this time.

In addition, attached proposed changes to the MRP reflect a change in the Surface water quality parameter list. Chapter 7 table 7-17 of the MRP does not include Dissolved Oxygen as part of the Laboratory measurements. Castle Valley Mining LLC was asked by the Division to add this analysis to their lab results and propose adding this at this time.

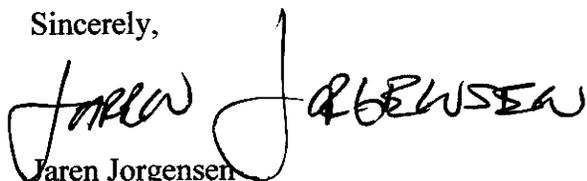
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Date Folder 071012 C/ 0150025
Incoming

P.O. Box 475 • Huntington, UT 84528
Phone (435) 687-5454 • Fax (435) 687-5037

Castle Valley Mining also proposes changes to the MRP reflect a change to decommission a culvert on Plate 5 -2D. Culvert not used in the past and the current drainage seems to be handling the flow of water just fine. Darron Haddock and Karl Houskeeper have seen the culvert/ location and agree that the drainage is fine without this culvert. Castle Valley proposes decommissioning this culvert in place. Approximant location: N: 393,500 E:2,115,000

Any questions please feel free to contact me (435) 687 5454

Sincerely,


Jaren Jorgensen
Engineer Tech

APPLICATION FOR COAL PERMIT PROCESSING

Permit Change New Permit Renewal Exploration Bond Release Transfer

Permittee: Castle Valley Mining LLC
Mine: Bear Canyon Mine **Permit Number:** C/015/0025
Title: Water Monitoring Amendment

Description, Include reason for application and timing required to implement:

Activation of water monitoring locations

Instructions: If you answer yes to any of the first eight questions, this application may require Public Notice publication.

- Yes No 1. Change in the size of the Permit Area? Acres: _____ Disturbed Area: _____ increase decrease.
- Yes No 2. Is the application submitted as a result of a Division Order? DO# _____
- Yes No 3. Does the application include operations outside a previously identified Cumulative Hydrologic Impact Area?
- Yes No 4. Does the application include operations in hydrologic basins other than as currently approved?
- Yes No 5. Does the application result from cancellation, reduction or increase of insurance or reclamation bond?
- Yes No 6. Does the application require or include public notice publication?
- Yes No 7. Does the application require or include ownership, control, right-of-entry, or compliance information?
- Yes No 8. Is proposed activity within 100 feet of a public road or cemetery or 300 feet of an occupied dwelling?
- Yes No 9. Is the application submitted as a result of a Violation? NOV # _____
- Yes No 10. Is the application submitted as a result of other laws or regulations or policies?

Explain: _____

- Yes No 11. Does the application affect the surface landowner or change the post mining land use?
- Yes No 12. Does the application require or include underground design or mine sequence and timing? (Modification of R2P2)
- Yes No 13. Does the application require or include collection and reporting of any baseline information?
- Yes No 14. Could the application have any effect on wildlife or vegetation outside the current disturbed area?
- Yes No 15. Does the application require or include soil removal, storage or placement?
- Yes No 16. Does the application require or include vegetation monitoring, removal or revegetation activities?
- Yes No 17. Does the application require or include construction, modification, or removal of surface facilities?
- Yes No 18. Does the application require or include water monitoring, sediment or drainage control measures?
- Yes No 19. Does the application require or include certified designs, maps or calculation?
- Yes No 20. Does the application require or include subsidence control or monitoring?
- Yes No 21. Have reclamation costs for bonding been provided?
- Yes No 22. Does the application involve a perennial stream, a stream buffer zone or discharges to a stream?
- Yes No 23. Does the application affect permits issued by other agencies or permits issued to other entities?
- Yes No 24. Does the application include confidential information and is it clearly marked and separated in the plan?

Please attach three (3) review copies of the application. If the mine is on or adjacent to Forest Service land please submit four (4) copies, thank you. (These numbers include a copy for the Price Field Office)

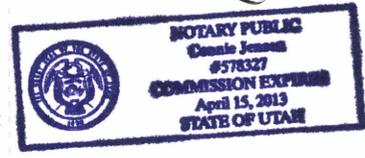
I hereby certify that I am a responsible official of the applicant and that the information contained in this application is true and correct to the best of my information and belief in all respects with the laws of Utah in reference to commitments, undertakings, and obligations, herein.

Jaren Jorgensen Engineer Tech 7/9/2012 JAREN JORGENSEN
 Print Name Position Date Signature (Right-click above choose certify then have notary sign below)

Subscribed and sworn to before me this 9 day of July, 2012

Notary Public: Louise Jensen, state of Utah.

My commission Expires: April 15 2013
 Commission Number: _____
 Address: _____
 City: _____ State: _____ Zip: _____



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Table 7-14 Water Monitoring Matrix: Operational Phase of Mining

Location	Status	Jan	Feb	Mar	May	June	July	Aug ³	Sept	Oct	Nov	Dec
Streams												
BC-1 (Upper Bear Creek)	Active	oper		oper.				oper.		oper.		
BC-2 (Lower Bear Creek)	Active	oper		oper.				oper.		oper.		
BC-3 (Lower Rt Fork Bear Creek)	Active	oper		oper.				oper.		oper.		
BC-4 (Upper Rt Fork Bear Creek)	Active	oper		oper.				oper.		oper.		
CK-1 (Upper Cedar Creek)	Active	oper		oper.				oper.		oper.		
CK-2 (Lower Cedar Creek)	Active	oper		oper.				oper.		oper.		
MH-1 (Lower McCadden Hollow Creek)	Inactive - Initiate if mining in Lease U-46481 or U-024316				field ⁵			field		field		
MH-2 (Upper McCadden Hollow Creek)	Inactive - Initiate if mining in Lease U-46481 or U-024316				field ⁵			field		field		
FC-1 (Lower Left Fork Fish Creek) ⁷	Active				field ⁵			field		field		
FC-2 (Lower Right Fork Fish Creek) ⁷	Inactive; initiate when mining T-16A R8E-6sec-20 or-17				field ⁵			field		field		
FC-3 (Right Fork Fish Creek Property Line) ⁷	Inactive; initiate when mining T-16A R8E-6sec-17 or-18				field ⁵			field		field		
FC-4 (Upper Right Fork Fish Creek) ⁷	Inactive; initiate when mining T-16A R8E-6sec-7 or-18				field ⁵			field		field		
FC-5 (Mud Spring) ⁷	Inactive; initiate when mining T16A R8E Sec 7				field ⁵			field		field		
FC-6 (Upper Left Fork Fish Creek) ⁷	Inactive; initiate when mining T-16A R8E-6sec-18, -19 or-20				field ⁵			field		field		
FC-7 (Water Right Upper Left Fork Fish Creek)	Inactive; initiate when mining T-16A R8E-6sec-18, -19 or-20				field ⁵			field		field		
FC-8 (Water Right Upper Left Fork Fish Creek)	Inactive; initiate when mining T-16A R8E-6sec-18, -19 or-20				field ⁵			field		field		
Springs												
SBC-4 (Big Bear Springs) ⁴	Active	oper		oper.				oper.		oper.		
SBC-5 (Birch Spring) ⁴	Active	oper		oper.				oper.		oper.		
SBC-9a (Hiawatha Seam)	Active	oper		oper.				oper.		oper.		
SBC-12 (16-7-13-1)	Inactive; initiate when mining begins if Mohrland				field ⁵			field		field		
SBC-14 (WHR-6)	Active				oper.			oper.		oper.		
SBC-15 (WHR-5)	Active				field ⁵			field		field		
SBC-16 (WHR-4) ^{6,7}	Active				field ⁵			field		field		
SBC16A ⁷	Active				field ⁵			field		field		
SBC-16B ⁷	Active				field ⁵			field		field		
SBC-17 (16-7-24-4)	Active	oper		oper.				oper.		oper.		
SBC-18 (WHR-2) ⁷	Inactive; initiate when active mining in Mine #4 or Mohrland area is within 500				field ⁵			field		field		
SBC-20 (16-8-18-4)	Inactive; initiate when active mining in Mine #4 or Mohrland area is within 500				field ⁵			field		field		
SBC-21 (16-8-18-1) ⁷	Inactive; initiate when active mining in Mine #4 or Mohrland area is within 500				field ⁵			field		field		
SBC-22 (Stockwater Trough)	Inactive; initiate when active mining in Mine #4 is within 500				field ⁵			field		field		
SCC-1 (16-8-20-1)	Inactive; initiate when active mining in Mine #4 or Mohrland area is within 500				field ⁵			field		field		
SCC-2 (16-8-18-5) ⁷	Inactive; initiate when active mining in Mine #4 or Mohrland area is within 500				field ⁵			field		field		
SCC-3 (Mohrland Portal)	Active				field ⁵			field		field		
SCC-5 (16-8-7-3)	Inactive; initiate when active mining in Mohrland area is within 500 feet				field ⁵			field		field		
SMH-1 (FBC-6)	Inactive - Initiate if mining in Lease U-46481 or U-024316				field ⁵			field		field		
SMH-2 (FBC-5)	Inactive - Initiate if mining in Lease U-46481 or U-024316				field ⁵			field		field		
SMH-3 (FBC-13)	Inactive - Initiate if mining in Lease U-46481 or U-024316				field ⁵			field		field		
SMH-4 (FBC-4)	Inactive - Initiate if mining in Lease U-46481 or U-024316				field ⁵			field		field		
SMH-5 (Stockwater Trough)	Inactive - Initiate if portal accessing U-61048 and U-61049 is opened				field ⁵			field		field		
Wells												
SBC-3 (Creek Well)	Active	oper		oper.				oper.		oper.		
SDH-2 (Well Sec. 11, T16S, R7E)	Inactive - Initiate if mining in Lease U-46481 or U-024316				level ⁵			level		level		
SDH-3 (Well Sec. 10, T16S, R7E)	Inactive - Initiate if mining in Lease U-46481 or U-024316				level ⁵			level		level		
MW-114 (Well Sec. 18, T16S, R8E)	Active				level ⁵			level		level		
MW-117 (Well Sec. 12, T16S, R8E)	Active				level ⁵			level		level		

- Notes:
1. See Tables 7-13 and 7-17 for listing of water quality monitoring parameters.
 2. oper. = operational base. = baseline
 3. Expanded List parameters taken in August of year 5 prior to each permit renewal.
 4. SBC-4 and SBC-5 shall also be tested for oil and grease
 5. First sample to be taken in May or June, when Gentry Mountain is accessible.
 6. A comment will be made regarding the level of the pond feeding the spring.
 7. Weekly monitoring to begin one month prior to mining in area and continue until one month after. Monthly monitoring will then be done for an additional six months.

Table 7-17 Surface Water Quality Parameter List

Field Measurements:

*	-	Water Levels or Flow
*	-	pH
*	-	Specific Conductivity ($\mu\text{mhos/cm}$)
*	-	Temperature ($^{\circ}\text{C}$)

Laboratory Measurements: (mg/L) (Major, minor ions and trace elements are to be analyzed in dissolved form only)

	*	-	^	Dissolved Oxygen
#	*	-	^	Total Settleable Solids
#	*	-	^	Total Suspended Solids
	*	-	^	Total Dissolved Solids
		-	^	Total Hardness (as CaCO_3)
		-		Aluminum (Al)
		-		Arsenic (As)
		-	^	Boron (B)
		-	^	Carbonate (CO_3)
		-	^	Bicarbonate (HCO_3)
		-		Cadmium (Cd)
		-	^	Calcium (Ca)
		-	^	Chloride (Cl)
		-		Copper (Cu)
	*	-	^	Iron (Fe) (Total and Dissolved)
		-		Lead (Pb)
		-	^	Magnesium (Mg)
	*	-	^	Manganese (Mn) (Total and Dissolved)
		-		Molybdenum (Mo)
		-		Nitrogen, Ammonia (NH_3)
		-		Nitrite (NO_2)
		-		Nitrate (NO_3)
		-	^	Potassium (K)
		-		Phosphate (PO_4)
		-	^	Selenium (Se)
		-	^	Sodium (Na)
		-	^	Specific Conductivity ($\mu\text{mhos/cm}$)
		-	^	Sulfate (SO_4)
		-		Zinc (Zn)
#	*	-	^	Oil and Grease (if visible sheen)
		-	^	Cation-Anion Balance

Sampling Period:

- Baseline
- * Operation, Post-mining
- # Construction
- ^ Expanded List