



Suzanne Steab <suzannesteab@utah.gov>

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## 2018 Annual Report Review Completion

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**Suzanne Steab** <suzannesteab@utah.gov>  
To: "Madsen, Karin" <kmadsen@coalsource.com>  
Cc: "Christensen, Steve" <stevechristensen@utah.gov>

Fri, Jun 14, 2019 at 8:24 AM

Hello Karin,

The Division staff have completed the review of the 2018 Annual Report for the Crandall Canyon Mine. Attached is a copy of the review with comments.

No hard copy will follow.

Thank you for your diligence in completing the Annual Report.

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 **CrandallCanyon.pdf**  
37K

# 2018 ANNUAL REPORT

Submit the completed document and any additional information identified to the Division by March 31, 2019.

## GENERAL INFORMATION

Company Name	Genwal Resources Inc.	Mine Name	Crandall Canyon Mine
Permit Number	C/015/0032	Permit Expiration Date	5-13-23
Operator Name	Genwal Resources	Phone Number	+1 (435) 888-4000
Mailing Address	PO Box 910	Email	kmadsen@coalsource.com
City	East Carbon		
State	Utah	Zip Code	84520

## DOGM File Location or Annual Report Location

Excess Spoil Piles	<input type="checkbox"/> Required <input checked="" type="checkbox"/> Not Required	
Refuse Piles	<input type="checkbox"/> Required <input type="checkbox"/> Not Required	
Impoundments	<input checked="" type="checkbox"/> Required <input type="checkbox"/> Not Required	Sediment pond annual certifications are both included.
Other:		

## OPERATOR COMMENTS

**REVIEWER COMMENTS**     Met Requirements     Did Not Meet Requirements

The Permittee provides the sedimentation pond inspection report, completed October 24th, 2018. The sediment levels were surveyed by Ware in November 2017. At that time, the sediment level was 7,766.3'. The 60% cleanout elevation is 7,769.0'. No additional instability, structural weakness, or other hazardous conditions were reported or have been noted in the monthly Division inspections. The Permittee provides the Burma Pond Inspection report, completed October 24th, 2018. No instability, structural weakness, or hazards were found at the Burma Pond. The sediment level was surveyed by Ware in November 2017 at 6515.1 feet. The 60% cleanout elevation is 6,518.63'. At the time of inspection, there was approximately 2' of water in the pond. Both pond inspections are PE certified by J. Thomas Paluso although the inspections for both impoundments were shown to be conducted by Karin Madsen.

The Permittee needs to have the primary sediment pond at the Crandall Canyon Mine site and the Burma Pond's accumulated sediment levels surveyed in 2019.

# COMMITMENTS AND CONDITIONS

The Permittee is responsible for ensuring annual technical commitments in the Mining and Reclamation Plan and conditions accepted with the permit are completed throughout the year. The Division has identified these commitments below and has provided space for you to report what you have done during the past year for each commitment. If additional written response is required, it should be filed as an attachment to this report.

**Title: MACROINVERTEBRATE SAMPLING**

**Objective:** To monitor macroinvertebrate populations in Crandall Creek

**Frequency:** Spring and Fall beginning in 2009

**Status:** Annually

**Reports:** Submit surveys in annual report

**Citation:** Chapter 3, page 3-17

**OPERATOR COMMENTS**

Macro-invertebrate study was completed by EIS for the Spring and Fall of 2018. Reports are included.

**REVIEWER COMMENTS**

Met Requirements



Did Not Meet Requirements

Macroinvertebrate studies were completed in the spring and fall of 2018. The studies are done in three reaches of Crandall Creek, one upstream of the mine to act as a control, one just below the discharge point of the mine, and one farther downstream. Surveys are completed to be used as potential indicators of water quality and overall health of the creek.

The results of the survey, similar to previous years, "show variability among all the sampled reaches and generally show reduced habitat quality and less than optimal conditions in all sampled locations." The upper reach, the control, appears to have decreased in quality standards over the last year while the lower reach has increased or remained stable since 2009. The overall quality of the middle reach is generally lower than the other two reaches. The results of this study fluctuate from season to season and year to year and are likely due to a number of factors such as increased beaver dams, variability of substrate and habitat, heavy precipitation events, as well as potential impacts from recent catastrophic fires and flooding. TM

**Title: SUBSIDENCE MONITORING**

**Objective:** To determine subsidence effects from mining. Please provide a map that shows the locations of the monitoring points to compare variations due to mining.

**Frequency:** Annually

**Status:** Ongoing

**Reports:** Submit surveyed monitoring data and map to Division annually

**Citation:** Chapter 5, Section 5.25.14, page 5-25

**OPERATOR COMMENTS**

Subsidence monitoring was completed by Ware Surveying. Report included.

**REVIEWER COMMENTS**

Met Requirements



Did Not Meet Requirements

A differential level subsidence survey was completed by Ware Surveying & Engineering in October, 2018. The accompanying report documents the subsidence induced displacement for dozens of points located at various locations within the permit area. A separate subsidence survey was completed for the East Mountain reclaimed slide area and the accompanying report is included. Most of the surveyed locations do not display any movement but a few show evidence of having moved very slightly. The maximum subsidence



# FUTURE COMMITMENTS AND CONDITIONS

The following commitments are not required for the current annual report year, but will be required by the permittee in the future as indicated by the "status" field. These commitments are included for information only, and do not currently require action. If you feel that the commitment is no longer relevant or needs to be revised, please contact the Division.

## **Title: RECLAMATION OF CULVERT**

**Objective:** To reclaim part of the culvert section of the stream which provided habitat to the cutthroat trout population. And enhancement of the stream below the mine discharge point due to the impact on the stream habitat and aquatic wildlife that occurred because of the iron-laden water discharge.

**Frequency:** Once during reclamation.

**Status:** To be done during reclamation.

**Reports:** Submitted to the Division upon project completion.

**Citation:** Chapter 3, page 3-16

## **Title: RAPTOR SURVEYS**

**Objective:** To monitor raptor activity and nesting within and adjacent to the permit area.

**Frequency:** Every three years, or annually if a.) UDWR recommends it, b.) it will not unduly harass raptors, or c.) it is prudent to insure raptor safety and/or habitat. Raptor surveys are not required if the mine is not active AND no significant activity is taking place.

**Status:** Surveys required prior to installation of any discharge treatment facilities or prior to reclamation work.

**Reports:** Annual Report

**Citation:** Chapter 3, page 3-17

# REPORTING OF OTHER TECHNICAL DATA

Please list other technical data or information that was not included in the form above, but is required under the approved plan, which must be periodically submitted to the Division.

Please list attachments:

**REVIEWER COMMENTS**

Met Requirements

Did Not Meet Requirements

NA

