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**State of Utah**  
DEPARTMENT OF NATURAL RESOURCES

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Executive Director

**Division of Oil, Gas and Mining**

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Division Director

Outgoing  
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#3732  
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February 7, 2011

Dave Shaver, Resident Agent  
Genwal Resources, Inc.  
P.O. Box 910  
East Carbon, Utah 84520-0910

Subject: Work Plan Hydrogeologic Study, Genwal Resources, Inc., Crandall Canyon Mine, C/015/0032, Task ID #3732

Dear Mr. Shaver:

On January 26<sup>th</sup>, 2011, the Division of Oil, Gas and Mining (the Division) received a proposed work plan from the legal counsel of Genwal Resources, Inc. (the Permittee) to evaluate the source of the mine water discharge at the Crandall Canyon Mine. The work plan was submitted by the Permittee pursuant to a request made by the Division in a letter dated December 21, 2010. The objective of the work plan is to provide information necessary to update the Probable Hydrologic Consequences (PHC) determination for the Crandall Canyon mine relative to the ongoing mine water discharge from the sealed north portals.

Upon review of the proposed work plan, several deficiencies were identified that must be addressed prior to Division approval (See Attached). The work plan lacks sufficient detail for the Division to determine whether it meets its stated objectives. Please re-submit the work plan by February 24, 2011.

If you have any questions, please call me at (801) 538-5325 or Steve Christensen (801) 538-5350.

Sincerely,

Daron R. Haddock  
Permit Supervisor

DRH/SKC/sqs  
cc: Denise Drago  
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**Crandall Canyon**  
Work-Plan: Hydrogeologic Study  
Task ID #3732

**Deficiencies:**

**R645-301-121, R645-301-724.500 and R645-301-725.300** The Permittee must revise the Work Plan to:

1. Include a map showing:
  - Mine inflow area;
  - Area overlying and adjacent to mine inflow area where investigation will be performed;
  - Known important geologic and hydrogeologic features;
  - Extent of underground workings;
  - Locations of water-bearing faults identified underground at Crandall Canyon Mine; and
  - Location and identification of historical spring and stream sampling sites to which 2011 data will be compared.
2. List the geologic and hydrogeologic features which will be mapped during the 2011 field season;
3. Identify the specific field water quality parameters and laboratory analyses to be performed for the mine water discharge and springs and streams overlying and adjacent to mine inflow area;
4. Identify the historic information from the area overlying and adjacent to mine inflow area to which the 2011 data will be compared; including the site location IDs, year(s) monitored / sampled, and report reference(s); and
5. Describe the scope, method(s) and location/extent for the stream channel morphology investigation.