State of Utah

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Department of
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DIVISION OF WATER QUALITY
Walter L. Baker, P.E.
Director

RECEIVED E-Mail
SEP 09 2014
Div. of Oil, Gas & Mining

M/35/0002
Attn: Leslie

SEP 09 2014

Chris Kaiser
Manager – Environment
Kennecott Utah Copper
4700 Daybreak Parkway
South Jordan, Utah 84095

Dear Mr. Kaiser:

Subject: Conditional **Construction Permit** for RTK South End Waste Rock Placement and Drainage Collection System

On August 25, 2014, the Division of Water Quality (DWQ) received the engineering plans and specifications for RTK South End Waste Rock Placement and Drainage Collection System prepared by URS and stamped by Professional Engineer Thomas D. Wright, III.

On Friday August 8, 2014 representatives of RTK came in and presented a plan for the placement of waste rock and reclamation of the south end drainages. The drainages that would be impacted are Castro, Saints Rest, South Saints Rest, and Yosemite. On Monday Aug. 18, 2014 representatives from DWQ went on a site tour to get a better understanding of exactly what work will be completed. On Aug. 25, 2014 the plans and specifications for the Construction Permit were received by DWQ. After the review of those documents there were some changes that were required. Those changes have been completed and a new set of documents were received on Aug. 28, 2014.

The following is a summary of the proposed major construction projects:

- Creation of drainage basins to help control the flood events for a 25 and 100 year 24 hour storm event;
- Placement of overflow weirs, permeable rock weirs, inlet and outlet structures, and piping systems to help meter flow events through the drainage system;
- Placement of waste rock and the creation of a haul road;
- Creation of a bench drainage system of down drains, bench channel, and energy dissipation basins;
- Sloping of the waste rock as part of the reclamation; and
- Reclamation, sloping of the waste rock, placement of soil and re-vegetation.

Condition: The drawings show that outlet pipes may daylignt to native ground. These locations will also require an energy dissipation system to prevent erosion.

The plans and specifications, as submitted, comply with *the Utah Water Quality Rules, (R317, Utah Administrative Code).* A **Construction Permit** is hereby issued as constituted by this letter, subject to the following conditions:

1. *Any revisions or modifications to the approved plans and specifications must be submitted to DWQ for review and approval, before construction or implementation thereof. Please submit any changes for review and approval directly to Woodrow Campbell, P.E., of the DWQ Ground Water Protection Section.*

2. *A written operations and maintenance manual, containing a description of the functioning of the facilities, an outline of routine maintenance procedures, and all checklists and maintenance logs needed for proper operation of the system, must be submitted and approved before the final inspection and operation of the system.*

3. *The approved facilities must not be placed in service unless DWQ has conducted a final inspection, reviewed and approved the As-Built Construction Certification Report, and provided written authorization to place the constructed facilities in service.*

4. *Construction activities that disturb one acre or more are required to obtain coverage under the Utah Pollutant Discharge Elimination System (UPDES) Storm Water General Permit for Construction Activities. The permit requires the development of a storm water pollution prevention plan (SWPPP) to be implemented and updated from the commencement of any soil disturbing activities at the site until final stabilization of the project. For more information, or to obtain permit coverage on-line, please go to: http://www. waterquality. utah.gov/UPDES/stormwater. Htm*

The plans and specifications for this project have been stamped and signed by a Professional Engineer currently licensed to practice in the state of Utah. The construction design, inspection supervision, and written construction certification of all work associated with this Construction Permit must be managed a Professional Engineer licensed to practice in the state of Utah.

This Construction Permit will expire one year from the date of its issuance, as evidenced by the date of this letter, unless substantial progress is made in constructing the approved facilities or the plans and specifications have been resubmitted and the construction permit is reissued. This permit does not relieve you, in any way, of your obligations to comply with other applicable local requirements.

Please contact Mr. Campbell at the beginning of construction to allow periodic inspections to be scheduled. Upon completion of the project, a final inspection and approval of the As-Built Construction Certification Report is required before the approval to operate the completed facilities can be issued. Please remain in contact with Mr. Campbell to schedule the final inspection. The Construction Certification Report with final as-built drawings must include test results for the following construction quality assurance and quality control (CQA/QC) elements:

Earthwork

- Proctor Curves,
- Soil Classification,
- Field Compaction Testing, and
- Subgrade Acceptance Certification.

Concrete

- Concrete Mix Verification,
- Concrete ASTM Testing Method, Frequency, and Results,
- Concrete Testing Pass/Fail Criteria, and
- Crack Inspection and Repair.

If we can be of further assistance, please contact Mr. Woodrow Campbell at wwcampbell@utah.gov or (801) 536-4353.

Sincerely,

Walter L. Baker, P.E.
Director

WLB/WWC/DJH:mc

Enclosures: Plans and Specifications

cc: URS, Thomas Wright
Doug Bacon, DERR (via e-mail, w/o encl.)
Kerri Fiedler, Region 8 USEPA (via e-mail, w/o encl.)
Leslie Hepler, DOGM (via e-mail, w/o encl.)

DWQ-2014-011198