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Chris Kaiser  
Manager - Environment

August 25, 2014

Mr. Dan Hall, Section Manager  
Groundwater Protection Section  
Division of Water Quality  
Utah Department of Environmental Quality  
195 West 1950 North  
P.O. Box 144870  
Salt Lake City, Utah 84114-4870

Dear Mr. Hall:

Subject: **Request for Approval to Construct  
RTK South End Waste Rock Placement Activities  
Bingham Canyon Mine and Water Collection System, Permit # UGW350010**

Context: In association with mining activities at Bingham Canyon Mine, Rio Tinto Kennecott (RTK) will be placing waste rock in what are referred to as the south end drainages. The drainages associated with this current activity are Yosemite, Saints Rest, South Saints Rest and Castro. The aforementioned drainages contain pipelines, conveyance ditches and associated structures as defined in Part I.D.3 of the Bingham Canyon Mine and Water Collection System, Permit # UGW350010. These structures manage meteoric and process water that report from the toe of the up gradient waste rock piles defined in Part I.D.2 of the permit.

Purpose: RTK has identified a reclamation opportunity within the aforementioned drainages that will import waste rock that will ultimately be re-sloped and vegetated. A key component of this activity will be the surface water management enhancements designed to manage both meteoric water and process water consistent with the requirements of the groundwater discharge permit and RTKC's storm water pollution prevention plan.

Although minor modifications to the drainages will require changes to detention basin locations and sizing, including pipeline alignments, all water captured by the detention basins will be routed to the existing collection system. No primary cut-off walls, associated sampling points, monitoring wells or surface water conveyance structures will be compromised or modified, and the permit content remains the same for the proposed enhancements. The activities proposed are designed to enhance the performance of the existing permitted facilities and minimize potential failure of the best management practices associated with each basin. Based upon the nature of the work, understanding of groundwater discharge permit #UGW350010, and ongoing discussions with UDWQ, RTK does not believe a permit modification is required; however RTK does acknowledge that due to the nature of the surface water control structure enhancements, which will be tied to our process water conveyance that a construction permit must be obtained.

Attached to this letter are the design drawings and the associated construction specification sheets which address construction matters related to the potential discharge of process water. A process flow diagram is also included which outlines the management of meteoric and process water for the planned reclamation activity.



CONSTRUCTION PERMIT ISSUED BY  
Utah Department of Environmental Quality  
Utah Division of Water Quality

Date: 8 Sept 2014

Review Engineer: WNC

Director: [Signature]

PE

Document Date 8/25/2014



DWQ-2014-011162

Included for UDWQ review and/or approval are the following:

1. Collection system design drawings
2. Collection system construction specifications
3. Process flow diagram

Should the division have any questions regarding this submittal or require additional information during the review please contact Zeb Kenyon, Sr. Advisor Environmental Compliance and Quality, at (801) 569-6035.

Sincerely,



Chris Kaiser  
Manager – Environment

Cc: Kerri Fiedler (USEPA)  
Leslie Heppler (UDOGM)  
Woody Campbell (UDWQ)  
Brian Hamos (UDWQ)  
Mike George (UDWQ)  
Doug Bacon (UDERR)