

Appendix A

UGW010014

The CS Mining expansion of its copper mining and beneficiation operation will include the following major construction activities:

- ITDF – Intermediate Tailings Disposal Facility. On February 14, 2014 DWQ received the construction documentation for the ITDF. This will be an HDPE lined tailing impoundment located approximately one-half mile east of the existing tailings facility.
- SX/EW Raffinate and Pregnant Solution Ponds – On April 9, 2014 DWQ received the plans and specifications for the new ponds required as part of the new Acid-leach Solvent Extraction and Electrowinning Circuit. The ponds will be double lined with XR-5 liner material and will have leak detection.
- SX/EW Process and Storage Tanks and Secondary Containment. On April 14, 15, and 17; 2014 DWQ received the plans and specifications for the Process and Storage Tanks with Concrete Works to provide secondary containment for the process liquids contained in the tanks. All concrete construction joints will have waterstop and joint seals to prevent leakage.

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 permit, 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 are 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 performed by 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

Appendix A

UGW010014

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. You may contact Central Utah Public Health Dept. at 435-896-5451 or John Chartier, Central District Engineer at 435-896-5451 ext. 314 for further assistance regarding local matters.

Because of the inherent hazard potential at lagoons and ponds, warning signs should be posted at these facilities to state the dangers of drowning and asphyxiation. Safety ropes running down the pond side slopes, and fastened to posts at the top of the dikes should be available to allow anyone trapped in the ponds to escape.

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:

Soil Subgrade

- 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.

Flexible Membrane Liner

- Panel Placement Log,
- Trial Seam Test Log,
- Seaming Record,
- Seam Test Record,
- Repair Log,
- Anchorage,
- Detail Work,
- Cover Placement when necessary
- As-Built Drawings,
- Manufacturers Certification including QA/QC Testing of the Rolls, and
- Professional Engineer Certification.

If any assistance is needed contact Woodrow Campbell. wwcampbell@utah.gov, 801-536-4353.