



State of Utah

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Lieutenant Governor

**JAN 27 2014**

Department of  
Environmental Quality

Amanda Smith  
Executive Director

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

Ronald L. Roberts, P.E., Director of Engineering  
Central Valley Water Reclamation Facility  
800 West Central Valley Road  
Salt Lake City, UT 84119-3379

*Ron*  
Dear ~~Mr. Roberts:~~

Subject: **Construction Permit** for Sludge Staging Site near Corinne, Utah

On June 10, 2013, the Division of Water Quality (DWQ) received information and drawings of a sludge staging site near Corinne Utah from Central Valley Water Reclamation Facility (Central Valley). Previous to this submittal a Letter Report prepared by GSH Geotechnical, Inc. (GSH), dated February 5, 2013, was submitted to provide the results of the infiltration testing and soil classification. Due to freezing conditions in the upper 24 to 30 inches the infiltration testing could not be completed in the upper fine-grained material. The soil classification testing showed a range of CL-ML (clay-silt) to SC-SM (clayey sand-silty sand). A subsequent letter report by GSH dated June 5, 2013 indicated that a falling-head permeability test was performed at a depth of 4 to 6 inches at 2 separate locations using a double-ring infiltrometer. The results show a range of permeability of 5.644 to  $2.822 \times 10^{-4}$  cm/s. The soil classification tests for these two sites indicated CL (clay). On July 15, 2013 DWQ received an Earthwork Quality Control Specification document from Central Valley. This document provided additional information concerning the site preparation and earthwork.

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

- Construction of a sludge staging pad. This will be accomplished by clearing and grubbing the area, moisture conditioning and compacting and adding native clay material to bring the surface to design elevation, placing an imported road base of 10 to 12 inches to design elevation, and construction a berm to prevent drainage from leaving the site.

The following conditions will be required during construction:

- Upon completion of the moisture conditioning and compaction of the native clay material compaction testing will be performed and a rate of 3 tests per acre. The moisture must be within +/- 2 of optimum and the compaction shall be at least 95% of the maximum dry density, as determined by ASTM D-698.
- The Road Base will be placed and compacted in lifts no greater than 6 inches. Testing will be performed at a rate of 3 tests per acre and the compaction shall be at least 95% of the maximum dry density, as determined by ASTM D-698.

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 construction conditions above and the following administrative 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. **Since this is a staging site, the biosolids can only be stored for a maximum of two weeks.***
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 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 online, please go to: <http://www.waterquality.utah.gov/UPDES/stormwater.htm>.*

The plans and specifications for this project must be 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 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 Bear River Health Department at 435.792.6574 for further assistance regarding local matters.

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:

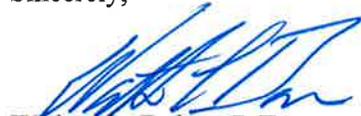
Ronald L. Roberts, P.E.  
January 17, 2014  
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Soil Layers

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

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

Sincerely,



Walter L. Baker, P.E.  
Director

WLB/WWC/DJH:mc

cc: Bear River Health Department

DWQ-2013-005147