

Colorado Discharge Permit System Regulations
CERTIFICATION
under
**DISCHARGES ASSOCIATED WITH SUBTERRANEAN
 DEWATERING OR WELL DEVELOPMENT (SIC No: 1781))**
Category 26, Current fee \$630/long term (CRS 25-8-502)

This certification specifically authorizes Powertech (USA) Inc. to discharge in accordance with this certification under the General Permit for Subterranean Dewatering or Well Development.
 All correspondence relative to this facility should reference the specific facility number, COG603162.

Permittee

Powertech (USA) Inc
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Contact

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New Permit Conditions

The Water Quality Control Division has created and implemented a new General Permit, Discharges Associated with Subterranean Dewatering or Well Development. Permittees currently covered under the Minimal Industrial Discharge (MINDI) permit for subterranean (foundation) dewatering will automatically be transferred to this new general permit without lapse in permit coverage. Permit fees previously paid will also automatically be transferred to this new general permit. **Please note there may have been a change in the permit number and your specific facility number.** The certification has also been amended to include a second outfall location not previously covered under the original Minimal Industrial Discharge (MINDI) permit.

Project Name, Activity and Location

Centennial Uranium Project- the project consists of two water well hydrologic pump tests of subsurface aquifers at the Centennial Uranium Facility. The project is located ½ mile Northeast of the intersection of WCR 100 and WCR 17 in Nunn, (Weld County) Colorado 80648.

Discharge Points

The discharge point (001A) is located at approximately the following location, Latitude: 40° 42' 28" N Longitude: - 104° 53' 38" W. The discharge point (002A) is located at approximately the following location, Latitude: 40° 43' 00" N Longitude: 104° 45' 00" W.

<i>Discharge Point</i>	<i>Description</i>	<i>Estimated Flow Rate</i>
001A	The discharge is from a water well hydrologic pump test of a subsurface aquifer that discharges to a reserve pit and dissipates to a field that slopes toward a dry tributary of Spring Creek.	Max=50 GPM
002A	The discharge is from a water well hydrologic pump test of a subsurface aquifer that discharges to a dry tributary of Spring Creek.	Max=50 GPM

**All discharges must comply with the lawful requirements of federal agencies, municipalities, counties, drainage districts, and other local agencies regarding any discharges to storm drains systems, conveyances, or other water courses under their jurisdiction*

Effluent Parameters

The discharges are to a dry tributary of Spring Creek, within Segment 3a of the Middle South Platte River Sub-basin, South Platte River Basin, found in the Classifications and Numeric Standards for the South Platte River Basin (Regulation No. 38; last update effective January 30, 2010). Segment 03a is Use Protected, and is classified for the following beneficial uses: Aquatic Life, Class 2 Warm; Recreation Class E; and Agriculture.

Outfall(s) 001A-002A: Permit Limitations and Monitoring Requirements for Short Term Discharges (i.e. Well Development, Monitoring or Observation)

Effluent Parameter	Discharge Limitations		
	Daily Maximum	Monitoring Frequency ¹	Sample Type
-----Applicable to all Discharges-----			
Flow, gpm	Report	2X/discharge	Instantaneous or Continuous ²
Total Suspended Solids, mg/l	30	2X/discharge	Grab
pH, s.u.	6.5-9.0	2X/discharge	In-situ
Oil and Grease, mg/l	10	2X/discharge	Visual *
-----Site Specific Parameters-----			
Radium 226 and 228, Picocuries/ Liter	Report	2X/discharge	Grab

- 1 This monitoring frequency is based on discharges that are classified as intermittent or temporary, such as those surrounding well development or subterranean dewatering activities. If the discharge is not classified as intermittent or temporary, the monitoring frequency may be changed.
 - 2 Flow can be measured with a recorder or determined from estimates based on measurements of pump capacity or flow over timed intervals whichever represents existing conditions.
- *There shall be no visible sheen. If a visual sheen is detected a grab sample must be taken.

Other Conditions

Antidegradation

Antidegradation review does not apply to this permit because the receiving stream is classified as Use Protected.

Groundwater Contamination

Outfall 002A is near a uranium ore body, as disclosed in the permit application. The groundwater water quality analysis submitted with the application demonstrates radium and uranium activities below the stream standard. However there is a potential for residual contamination to be elevated as the dewatering of the aquifer takes place. As such, additional parameters of concern that have been determined to be representative of ground water pollution from these sources have been added to the effluent limitations for monitoring.

Should proximate contamination and its constituents be detected at levels above the stream standard, the permittee will be required to instigate remedial activities to become compliant with all relevant stream standards for all parameters. The numeric limitations relative to this facility are found in Classifications and Numeric Standards for the South Platte River Basin, (Regulation No. 38, last update effective January 30, 2010) and Basic Standards and Methodologies for Surface Water, (Regulation No. 31, last revised November 30, 2009). If, after submission of sampling data, the permittee is able to demonstrate to the Division's satisfaction, that their discharge presents no potential to cause or contribute to an exceedance of a stream standard, the permittee may request relief from further monitoring of the site specific parameters in a letter containing the reasons for the request along with all supporting data.

Sampling

Sampling shall occur at a point after treatment, or after the implementation of any Best Management Practices (BMPs). If BMPs or treatment are not implemented, sampling shall occur where the discharge leaves control of the permittee, and prior to entering the receiving stream or prior to discharge to land. Samples must be representative of what is entering the receiving stream.

Monitoring and Reporting

Discharge Monitoring Reports (DMR) must be submitted quarterly as long as the certification is in effect. The permittee shall provide the Division with any additional monitoring data on the permitted discharge collected for entities other than the Division. This will be supplied to the Division within 48 hours of the receipt of the data by the permittee.

This certification to discharge is effective long term. For termination of permit coverage, the permittee must initiate this by sending a letter to the Division requesting the permit certification be terminated.

Best Management Practices

The permittee shall implement and maintain the Best Management Practices (BMP) for the prevention of erosion and the control of solid and liquid pollutants due to the discharge. BMPs include various options, such as: modification of the pipe discharge structure to disperse flows; containment of water by berms or other comparable structures; the use of geocloth, filter fabric, or plastic sheeting for protection of containment structures; rip-rap; and/or any other approved methods.

The General Permit for Discharges Associated With Subterranean Dewatering or Well Development is attached and the permittee should review this permit for familiarity with all of the permit requirements. If the permittee has questions related to this certification that cannot be answered by a review of the permit, the permit writer should be contacted.

Permit Writer
Maura McGovern
303-692-3392
May 18, 2010