

Official Draft Public Notice Version – July 31, 2013

The findings, determinations, and assertions contained in this document are not final and subject to change following the public comment period.

**FACT SHEET STATEMENT OF BASIS  
CENTERFIELD REGIONAL CULINARY WATER TREATMENT PLANT  
DISCHARGE PERMIT  
UPDES PERMIT NUMBER: UT0025704  
MINOR INDUSTRIAL**

**FACILITY CONTACTS**

Person Name: Stewart Jensen  
Position: Water Superintendent

Facility Name: Centerfield Regional Culinary Water Treatment Plant

Mailing Address: P.O. Box 220200  
Centerfield, Utah 84622

Telephone: (435) 528-3296

Actual Address: 1600 North Highway 137  
Mayfield, UT 84643

**DESCRIPTION OF FACILITY**

Centerfield City presently operates a culinary water system, some sources to which have nitrate concentrations that exceed the 10 mg/L maximum for drinking water standards. Small amounts of water from high nitrate sources can be blended with Centerfield City's spring, which is a lower nitrate source, to provide drinking water. Centerfield City intends to operate a small reverse osmosis plant for the purpose of providing a pure water source to blend with other sources with elevated nitrate levels. The amount of water treated will vary beginning at 200 gpm. Treatment of this water will produce 150 gpm of pure water and 50 gpm of wastewater. Operation will be intermittent. The plant will only be operated during peak demand periods when significant volumes are required to meet demand.

**SUMMARY OF CHANGES FROM PREVIOUS PERMIT**

All limitations will remain the same as those in the previous permit. Based on effluent monitoring data and the capacity of the existing treatment facility, Centerfield is expected to be able to comply with the limitations.

**DISCHARGE**

**DESCRIPTION OF DISCHARGE**

<u>Outfall</u>	<u>Description of Discharge Point</u>
001	Located at latitude 39° 07' 21" and longitude 111° 42' 42". The discharge is through a 4-inch diameter pipe leading from the water treatment plant to Twelve Mile Creek.

**RECEIVING WATERS AND STREAM CLASSIFICATION**

The final discharge is to Twelve Mile Creek, which is classified as 2B, 3B, and 4.

- Class 2B -Protected for secondary contact recreation such as boating, wading, or similar uses.
- Class 3B -Protected for warm water species of game fish and other warm water aquatic life, including the necessary aquatic organisms in their food chain.
- Class 4 -Protected for agricultural uses including irrigation of crops and stock watering.

**BASIS FOR EFFLUENT LIMITATIONS**

Limits for TDS were determined based upon an ADR Level II. Limits on total suspended solids (TSS), biochemical oxygen demand (BOD<sub>5</sub>), pH and total flow based on current Utah Secondary Treatment Standards, *UAC R317-1-3.2*. The permit limitations are:

Parameter	Effluent Limitations			
	30 - Day Average	Maximum	Daily	Daily
		7 - Day Average	Minimum	Maximum
Total Flow, gpd	300,000	NA	NA	NA
BOD <sub>5</sub> , mg/L	25	35	NA	NA
Total Suspended Solids, mg/L	25	35	NA	NA
Total Dissolved Solids, mg/L	NA	NA	NA	4,000
pH, Standard Units	NA	NA	6.5	9.0

NA – Not Applicable.

**SELF-MONITORING AND REPORTING REQUIREMENTS**

The following self-monitoring requirements are the same as in the previous permit. The reporting requirements will be submitted on Discharge Monitoring Report Form (EPA No. 3320-1) or by NetDMR, post-marked or entered into NetDMR no later than the 28<sup>th</sup> day of the month following the completed reporting period.

Table 2. Self-Monitoring and Reporting Requirements			
Parameter	Frequency	Sample Type	Units
Total Flow	Continuous	Recorder	gpd
BOD <sub>5</sub>	2 x Month	Composite	mg/L
Total Suspended Solids	2 x Month	Composite	mg/L
Total Dissolved Solids	2 x Month	Grab	mg/L
pH	2 x Month	Grab	SU

Centerfield regional treatment plant will be required to perform an acute biomonitoring test two times, using both the Ceriodaphnia dubia and Pimephales promelas (fathead minnows) species. The first time will be within 30 days of when the treatment plant first discharges, the second time will be within 90 days of the first test. If either of the acute biomonitoring tests fails, the permit may be re-opened and biomonitoring limits may be included in the permit.

### **WASTE LOAD ANALYSIS AND ANTIDegradation REVIEW**

Effluent limitations are also derived using a waste load analysis (WLA), which is appended to this statement of basis as ADDENDUM. The WLA incorporates Secondary Treatment Standards, Water Quality Standards, Antidegradation Reviews (ADR), as appropriate and designated uses into a water quality model that projects the effects of discharge concentrations on receiving water quality. Effluent limitations are those that the model demonstrates are sufficient to meet State water quality standards in the receiving waters.

During this UPDES renewal permit development, a WLA and ADR were performed. An ADR Level I review was performed and concluded that an ADR Level II review regarding TDS was necessary. Sunrise Engineering, Inc. prepared a Level II ADR review input revised report addressing all of the points required in R317-2, which was dated March 16, 2007. A Level II ADR was conducted by the Division. The review committee consisted of various managers and staff of the Division. After discussion and deliberation, it was the unanimous consensus of the Level II ADR committee that the project would not cause and objectionable increase in TDS concentrations to Twelve Mile Creek. A Copy of the WLA and the ADR are attached to the statement of basis.

### **STORM WATER**

The facility's SIC code is 4941: Water Supply, there is no bulk storage of any contaminants at the facility. Therefore, a storm water industrial UPDES permit is not required. A storm water re-opener provision is included in the permit should storm water requirements become necessary in the future.

### **PRETREATMENT REQUIREMENTS**

Although the permittee does not have to develop a State-approved pretreatment program, any wastewater discharges to the sanitary sewer are subject to Federal, State and local regulations. Pursuant to *Section 307 of the Clean Water Act*, the permittee shall comply with all applicable Federal General Pretreatment Regulations promulgated, found in *40 CFR 403* and the State Pretreatment Requirements found in *UAC R317-8-8*.

### **BIOMONITORING REQUIREMENTS**

As part of a nationwide effort to control toxic discharges, biomonitoring requirements are being included in permits for facilities where effluent toxicity is an existing or potential concern. In Utah, this is done in accordance with the *State of Utah Permitting and Enforcement Guidance Document for Whole Effluent Toxicity Control (Biomonitoring)*. Authority to require effluent biomonitoring is provided in *Permit Conditions, UAC R317-8-4.2, Permit Provisions, UAC R317-8-5.3 and Water Quality Standards, UAC R317-2-5 and R317-2-7.2*.

The potential for toxicity is not deemed sufficient to require biomonitoring or whole effluent toxicity (WET) limits. Centerfield regional treatment plant will be required to perform the acute biomonitoring test two times. The first time will be within 30 days of when the treatment plant first discharges, the second time will be within 90 days of the first test. If either of the acute biomonitoring tests fails, the permit may be re-opened and biomonitoring limits will be included in the permit. The permit will contain a WET reopener provision.

### **PERMIT DURATION**

It is recommended that this permit be effective for a duration of five (5) years.

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Drafted by  
Matthew Garn  
Utah Division of Water Quality  
June 26, 2013

### **PUBLIC NOTICE**

Began:  
Ended:  
Public Noticed in The Sanpete Messenger