

Official Draft Public Notice Version **March 5, 2014**

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

**FACT SHEET AND STATEMENT OF BASIS
EUREKA CITY WASTEWATER TREATMENT PLANT
UPDES PERMIT NUMBER: UT-0024601
MINOR MUNICIPAL**

FACILITY CONTACTS

Person Name: Fred Garbett Jr.
Position: Public Works Director/Operator
Phone Number: (435) 243-3686

Facility Name: Eureka City Wastewater Treatment Plant
Mailing Address: P.O. Box 156
Eureka, Utah 84628

Telephone: (801) 433-6915
Actual Address: The facility is located about 1.7 miles southwest of Eureka City just off Highway 6

DESCRIPTION OF FACILITY

The Eureka Wastewater Treatment Facility (EWTF) is a discharging lagoon system. This facility was expanded and upgraded in 1986 to a total area of 360 feet by 720 feet. The headworks consist of a bar screen and comminutor and a six inch Parshall flume. The EWTF has three cells with a total of five aerators. The EWTF has an influent organic loading of 136/lbs. per day for BOD₅. The summer weather flow is 0.16 million gallons per day (MGD) and the winter weather flow is 0.11 MGD and serves the City of Eureka which has a population of about 630 people. The average design flow is 0.20 MGD and has a design population equivalent of 800 people. Disinfection is accomplished through chlorination. Since March 31, 2011, the facility has been discharging to an approved alternative disposal site for treated effluent which is located adjacent to the final lagoon cell.

SUMMARY OF CHANGES FROM PREVIOUS PERMIT

No substantive changes have been made to the permit.

Eureka has constructed an approved alternative wastewater disposal site which consists of a series of irrigation mains and laterals, surrounded by a 3-foot berm and barbed wire fencing. All wastewater effluent is now discharged to this site.

DESCRIPTION OF DISCHARGE

The wastewater treatment plant has one discharge point, known as 001. The 001 outfall has a latitude of 39° 56' 29" and a longitude of 112° 09' 03" and discharges into Eureka Creek. The STORET number associated with the discharge is 492157.

The facility has been discharging to an approved alternative disposal site since March, 2011. As a result, no effluent has been discharged to Eureka Creek since that time. It is EWTF's intent not to discharge under this permit, however they continue to monitor their effluent and maintain their option to discharge under this permit.

RECEIVING WATERS AND STREAM CLASSIFICATION

EWTF discharges into Eureka Creek, an ephemeral wash, which is tributary to Tanner Creek. The confluence of Tanner and Eureka Creek is approximately 9 miles south of where the effluent enters Eureka Creek. The waters of Tanner Creek are classified as 2B, 3E, 4, according to *Utah Administrative Code (UAC) 317-2*, and are part of the Sevier River system.

- Class 2B - Protected for secondary contact recreation such as boating, wading, or similar uses.
- Class 3E - Severely habitat-limited waters. Narrative standards will be applied to protect these waters for aquatic wildlife.
- Class 4 - Protected for agricultural uses including irrigation of crops and stock watering.

BASIS FOR EFFLUENT LIMITATIONS

Limitations on total suspended solids (TSS), biochemical oxygen demand (BOD₅), E. Coli bacteria, pH and percent removal requirements are based on current Utah Secondary Treatment Standards, *UAC R317-1-3.2*. The total residual chlorine (TRC), and oil and grease limitations are based on best professional judgment. The waste load analysis indicates these limitations should be sufficiently protective of water quality, in order to meet State water quality standards in receiving waters.

Parameter	Effluent Limitations			
	30 Day Monthly Avg	7 Day Weekly Avg	Daily Minimum	Daily Maximum
Flow, MGD	.2	NA	NA	NA
Dissolved Oxygen, mg/L	NA	NA	5.0	NA
BOD ₅ , mg/L	45	65	NA	NA
BOD ₅ Min. % Removal	85	NA	NA	NA
TSS, mg/L	45	65	NA	NA
TSS Min. % Removal	85	NA	NA	NA
E-Coli, No./100mL	126	158	NA	NA
pH, Standard Units	NA	NA	6.5	9.0
Total Residual Chlorine, mg/l	NA	NA	NA	2.0
Oil and Grease	NA	NA	NA	10

NA – Not Applicable.

SELF-MONITORING AND REPORTING REQUIREMENTS

The following self-monitoring requirements are the same as in the previous permit. The permit will require reports to be submitted monthly and annually, as applicable, on Discharge

Monitoring Report (DMR) forms due 28 days after the end of the monitoring period. Lab sheets for biomonitoring must be attached to the biomonitoring DMR. Lab sheets for metals and toxic organics must be attached to the DMRs.

Self-Monitoring and Reporting Requirements, *a			
Parameter	Frequency	Sample Type	Units
Total Flow, *b, *c	Continuous	Recorder	MGD
Dissolved Oxygen	Monthly	Grab	mg/L
BOD ₅ , Influent	Monthly	Grab	mg/L
Effluent	Monthly	Grab	mg/L
TSS, Influent	Monthly	Grab	mg/L
Effluent	Monthly	Grab	mg/L
TSS, % Removal	Monthly	Grab	mg/L
pH	Monthly	Grab	SU
Total Residual Chlorine	Monthly	Grab	mg/L
Oil and Grease *d	Monthly	Grab	mg/L

*a See Definitions, *Part VIII of the permit*, for definition of terms.

*b Flow measurements of influent/effluent volume shall be made in such a manner that the permittee can affirmatively demonstrate that representative values are being obtained.

*c If the rate of discharge is controlled, the rate and duration of discharge shall be reported.

*d Sample only if a sheen is observed

BIOSOLIDS

The State of Utah has adopted the *40 CFR 503* federal regulations for the disposal of sewage sludge (biosolids) by reference. However, since this facility is a lagoon, there is not any regular sludge production. Therefore *40 CFR 503* does not apply at this time. In the future, if the sludge needs to be removed from the lagoons and is disposed in some way, the Division of Water Quality must be contacted prior to the removal of the sludge to ensure that all applicable state and federal regulations are met

STORM WATER

STORMWATER REQUIREMENTS

Wastewater treatment facilities, which includes treatment lagoons, are required to comply with storm water permit requirements if they meet one or both of the following criteria,

1. The facility has an approved pretreatment program as described in 40 CFR Part 403.
2. The facility has a design flow of 1.0 MGD or greater.

The Eureka City Lagoon does not meet either of the criteria; therefore a storm water permit is not required at this time. A storm water re-opener provision is included in the permit should a storm water permit be needed in the future.

PRETREATMENT REQUIREMENTS

Eureka has not been designated for pretreatment program development because it does not meet conditions which necessitate a full program. The flow through the plant is less than 5 MGD, there are no categorical industries discharging to the treatment facility, industrial discharges comprise less than 1 percent of the flow through the treatment facility, and there is no indication of pass through or interference with the operation of the treatment facility such as upsets or violations of the POTW's UPDES permit limits.

Although Eureka 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.

An industrial waste survey (IWS) is required of the permittee as stated in Part II of the permit. The IWS is to assess the needs of the permittee regarding pretreatment assistance. The IWS is required to be submitted within sixty (60) days after the issuance of the permit. If an Industrial User begins to discharge or an existing Industrial User changes their discharge the permittee must resubmit an IWS no later than sixty days following the introduction or change as stated in Part II of the permit.

It is recommended that the permittee perform an annual evaluation of the need to revise or develop technically based local limits for pollutants of concern, to implement the general and specific prohibitions 40 CFR, Part 403.5(a) and Part 403.5(b). This evaluation may indicate that present local limits are sufficiently protective, need to be revised or should be developed. It is required that the permittee submit for review any local limits that are developed to the Division of Water Quality. If local limits are developed they must be public noticed.

BIOMONITORING REQUIREMENTS

A nationwide effort to control toxic discharges where effluent toxicity is an existing or potential concern is regulated 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 because there are no present or anticipated industrial dischargers on the system nor are there any anticipated for the duration of this permit. The waste discharge is anticipated to be household waste only. Therefore, biomonitoring is not required in this permit; however the permit will contain a WET reopener provision.

PERMIT DURATION

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

Drafted by
Dave Wham
Utah Division of Water Quality

ADDENDUM TO FSSOB

(this comment completed after public notice, for the final permit)

A public notice for the draft permit was published in [Publication Name] on XX/XX/2014. The comment period will end on XX/XX/2014. Any comments was be responded to and summarized in the Responsiveness Summary below before the permit is issued.

Responsiveness Summary

During finalization of the permit certain dates, spelling edits and minor language corrections may be completed. Such changes will be considered non-substantive and will not be cause for an additional public notice period for the permit.

