



FACTSHEET
(pursuant to NAC 445A.236)

Permittee Name: EUREKA COUNTY
PO BOX 714
EUREKA, NV - 89316

Permit Number: NS0000042

Location: EUREKA WASTEWATER TREATMENT FACILITY, EUREKA
2.5 MILES NORTH OF EUREKA ON COUNTY ROAD M-101, EUREKA, NV -
89316
LATITUDE: 39.553611, LONGITUDE: -115.966389
TOWNSHIP: 20 N, RANGE: 53 E, SECTION: 35

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Outfall City	Outfall State	Outfall Zip	Outfall County	Latitude	Longitude	Receiving Water
001	INFLUENT	Internal Outfall		EUREKA	NV	89316	EUREKA	39.553611	-115.966389	GROUNDWATER
002	EFFLUENT	External Outfall		EUREKA	NV	89316	EUREKA	39.553611	-115.966389	GROUNDWATER
003	PONDS	External Outfall		EUREKA	NV	89316	EUREKA	39.553611	-115.966389	GROUNDWATER

General:

The Eureka Wastewater Treatment Plant (WWTP) treats domestic wastewater from the Town of Eureka using a facultative pond system located approximately three miles north of the town. The WWTP currently has a capacity of 0.1 million gallons per day (MGD) and the current flow rate is approximately 70,000 gallons per day. The two treatment ponds are clay-lined and were constructed in 1996. The ponds operate in series with the treated effluent flowing into one of two rapid infiltration basins (RIBs). The entire treatment system is enclosed within a four foot high barbed-wire fence and signs are posted at the gates.

The collection system for the WWTP has only one lift station which is located at the high school. This lift station is maintained by the school system's maintenance staff. In addition to a predominately residential service base of around 300 residences, there are several commercial customers served by the WWTP. The commercial customers include restaurants, stores, and several small hotels. There are no light or heavy industrial dischargers into the system. Septage haulers from the local area are allowed to discharge into the ponds on a limited basis (less than 1,500 gallons per month).

Discharge Characteristics:

From the 4th quarter 2014 through 3rd quarter 2015, the flow through the treatment plant ranged from 0.044 MGD up to 0.12 MGD. The latter value exceeded the permit limit, but the cause was due to the flow meter becoming clogged with rags, which caused the high reading. Based upon the flow data during the other

months, the treatment plant is running at 50-60 percent of its capacity.

Influent Carbonaceous Biochemical Oxygen Demand (CBOD) during the same period ranged from a low of 45 mg/L up to a maximum value of 340 mg/L. After treatment, all CBOD values were well below the permitted limit of 45 mg/L.

Influent Total Suspended Solids (TSS) during the same period ranged from a low of 88 mg/L up to a maximum value of 540 mg/L. The values of TSS in the treated effluent are all below the permitted limit of 90 mg/L.

Treated effluent values for pH are all within the range of 6.0 to 9.0 standard units that are permitted in the permit.

Receiving Water:

The receiving water is groundwaters of the State. Groundwater quality at this facility is not currently evaluated since there are no monitoring wells at the WWTP. The State Engineer's database also indicates that no well logs have been completed in Section 35 where the WWTP is located. The assumed groundwater flow gradient is northward away from the RIBs.

Summary of Changes From Previous Permit:

There have been no changes from the previous permit, other than permit naming conventions at the Nevada Division of Environmental Protection (NDEP), Bureau of Water Pollution Control. The permit number has been changed from NEV000042 to NS0000042. This change does not reflect a change in the type of permit being issued.

Proposed Effluent Limitations:

The Permittee is authorized to discharge in accordance with the limitations, requirements and conditions of this permit. The discharge shall be limited, sampled and monitored by the Permittee as specified below:

WWTP Discharge Limitations Table for Sample Location 001 (Internal Outfall) To Be Reported Monthly

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Flow rate	Daily Maximum	<= 0.1 Million Gallons per Day (Mgal/d)		Raw Sewage Influent	001	Continuous	METER
Flow rate	30 Day Average	<= 0.1 Million Gallons per Day (Mgal/d)		Raw Sewage Influent	001	Continuous	METER

WWTP Discharge Limitations Table for Sample Location 001 (Internal Outfall) To Be Reported Quarterly

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Solids, total suspended	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Raw Sewage Influent	001	Quarterly	DISCRT
BOD, carbonaceous, 05 day, 20 C	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Raw Sewage Influent	001	Quarterly	DISCRT

WWTP Discharge Limitations Table for Sample Location 002 (External Outfall) To Be Reported Quarterly^[1]

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
pH, maximum	Quarterly Maximum		<= 9 Standard Units (SU)	Effluent Gross	002	Quarterly	DISCRT
pH, minimum	Quarterly Minimum		>= 6 Standard Units (SU)	Effluent Gross	002	Quarterly	DISCRT
Solids, total suspended	Quarterly Maximum		<= 90 Milligrams per Liter (mg/L)	Effluent Gross	002	Quarterly	DISCRT
BOD, carbonaceous, 05 day, 20 C	Quarterly Maximum		<= 45 Milligrams per Liter (mg/L)	Effluent Gross	002	Quarterly	DISCRT

Notes (WWTP Discharge Limitations Table):

1. Effluent sample (unfiltered) is to be collected prior to discharge into the rapid infiltration basins.

Ponds / Rapid Infiltration Basins for Sample Location 003 (External Outfall) To Be Reported Annually^[1]

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Sludge/Solids, depth ^[2]	Annual Maximum	M&R Feet (ft)		See Footnote ^[3]	003	Annual ^[4]	CALCTD

Notes (Ponds / Rapid Infiltration Basins):

1. The Permittee shall use a method approved by NDEP to determine the sludge depth in its ponds. The plan for monitoring the sludge depths shall be submitted with O&M Manual.
2. The Permittee shall report the total depth of the pond and the depth of sludge.
3. The Permittee shall test the sludge depths at various spots in the pond that have been approved by NDEP.
4. The Permittee shall sample the sludge depths during the 4th quarter.

Rationale for Permit Requirements:

Monitoring is required to ensure that groundwaters of the State of Nevada are not degraded. Monitoring is also required to assess the level of treatment being provided, and to determine compliance with discharge permit limits. The Permittee is in substantial compliance with its current discharge permit.

Special Conditions:

The special condition for this facility is listed in the table. The Permittee is in substantial compliance with its current Discharge Permit.

SA – Special Approvals / Conditions Table

Item #	Description
1	Prior to expanding the capacity of the WWTP, the Permittee shall submit a letter stating that it would like to make a minor modification to the Permit to expand the WWTP's treatment capacity to 0.2 MGD.

Flow:

The current permitted flow limit is 0.1 MGD for both the daily maximum and 30-day average.

Corrective Action Sites:

There are no Bureau of Corrective Actions sites within one mile of the WWTP.

Wellhead Protection Program:

The WWTP is not located within a Safe Drinking Water Protection Area not a Wellhead Protection Area.

Schedule of Compliance:

SOC – Schedule of Compliance Table

Item #	Description	Due Date
1	The Permittee shall submit two copies to NDEP for review of an updated copy of an Operations & Maintenance (O&M) Manual prepared in accordance with the NDEP's WTS-2 Guidance: Minimum Information Required for an Operations and Maintenance Manual. The revised O&M Manual shall be wet stamped and signed by a Nevada Professional Engineer (P.E.) or other qualified person.	7/1/2016

Deliverable Schedule:

DLV– Deliverable Schedule for Reports, Plans, and Other Submittals

Item #	Description	Interval	First Scheduled Due Date
1	Quarterly DRMs	Quarterly	7/28/2016
2	Annual Report	Annually	1/28/2017

Procedures for Public Comment:

The Notice of the Division's intent to issue a permit authorizing the facility to discharge to groundwater of the State of Nevada subject to the conditions contained within the permit, is being sent to the **Eureka Sentinel and the Reno Gazette Journal** for publication. The notice is being mailed to interested persons on our mailing list. Anyone wishing to comment on the proposed permit can do so in writing until 5:00 P.M. **3/1/2016**, a period of 30 days following the date of the public notice. The comment period can be extended at the discretion of the Administrator.

A public hearing on the proposed determination can be requested by the applicant, any affected State, any affected interstate agency, the Regional Administrator of EPA Region IX or any interested agency, person or group of persons. The request must be filed within the comment period and must indicate the interest of the person filing the request and the reasons why a hearing is warranted. Any public hearing determined by the Administrator to be held must be conducted in the geographical area of the proposed discharge or any other area the Administrator determined to be appropriate. All public hearings must be conducted to accordance with NAC 445A.238.

The final determination of the Administrator may be appealed to the State Environmental Commission pursuant to NRS 445A.605.

Proposed Determination:

The Division has made the tentative determination to issue / re-issue the proposed 5-year permit.

Prepared by: **Steve McGoff**

Date: **4/12/2013**

Title: **Staff Engineer III**