



FACTSHEET
(pursuant to NAC 445A.236)

Permittee Name: ELKO COUNTY PUBLIC WORKS
540 COURT STREET, SUITE 104
ELKO, NV - 89801

Permit Number: NS2003305

Location: BEAR CREEK WATER TREATMENT PLANT, ELKO
51 BEAR STREET, JARBIDGE, NV - 89826
LATITUDE: 41.873236, LONGITUDE: -115.438142
TOWNSHIP: 46N, RANGE: 58E, SECTION: 17

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Outfall City	Outfall State	Outfall Zip	Outfall County	Latitude	Longitude	Receiving Water
001	PERCOLATION TRENCH	External Outfall		JARBIDGE	NV	89801	ELKO	41.873236	-115.438142	GROUNDWATER

General:

The Permittee operates the Bear Creek Water Treatment Plant (BCWTP), which diverts and treats water from Bear Creek. The water supply treatment system first uses caustic soda and aluminum sulfate as a flocculent aid in a 33,000-gallon sedimentation/flocculation tank. Following the flocculation process, the water is further treated by a three component filtration system consisting of a sand filter, a 5-micron cartridge filter, and two one-micron cartridge filters. Product water from the filtration system is chlorinated and pumped into a 34,000-gallon chlorine contact chamber for disinfection. After disinfection, water flows by gravity to two 150,000-gallon storage tanks prior to delivery into the Jarbidge water distribution system.

The filter backwash waste stream is discharged from the sand filter to a catch basin, which in turn is piped to a baffled sand interceptor for solids settling, prior to discharge to a perforated pipe extending 1100 feet in an infiltration gallery for disposal via percolation. The percolation pipe is bedded in drain rock in the lower portion of a trench near the service roadway extending below the BCWTP and water storage tanks. In addition to the distribution pipe, the trench also contains telephone and electric utilities and a water pipe to service the BCWTP from the Jarbidge River in the event of an emergency.

Discharge Characteristics:

The discharge consists of filter backwash water from the BCWTP sand filter.

Receiving Water:

The receiving water is groundwater of the State. The groundwater depth ranges from approximately 6 to 20 feet below the bottom of the percolation trench.

Summary of Changes From Previous Permit:

As requested by the Permittee, the 30-day average flow rate limit has been changed from 0.0222 million gallons per day (MGD) to 0.030 MGD.

Due to the new naming conventions at the Nevada Division of Environmental Protection (NDEP), Bureau of Water Pollution Control, the permit number has been changed from NEV2003305 to NS2003305. This

change does not reflect a change in the type of permit being issued.

Proposed Effluent Limitations:

The discharge shall be limited and monitored by the Permittee as specified below:

WWTP Discharge Limitations Table for Sample Location 001 (Percolation Trench) To Be Reported Monthly

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Number of Events ^[1]	Monthly Total	M&R Number (#)		Internal Monitoring Point	001	Monthly	CALCTD
Flow, total ^[2]	Monthly Total	M&R Gallons (gal)		Effluent Gross	001	Monthly	CALCTD ^[3]
Flow rate	30 Day Average	<= 0.030 Million Gallons per Day (Mgal/d)		Effluent Gross	001	Monthly	CALCTD

Notes (WWTP Discharge Limitations Table):

1. Number of backwash cycles
2. Volume
3. The total flow (volume) shall be calculated by multiplying the number of backwash cycles per month by the calculated backwash volume per cycle.

Rationale for Permit Requirements:

Monitoring of the number of backwash cycles and of the quantity of water discharged to the percolation trench is required to ensure that the receiving water is not degraded as a result of the discharge.

Special Conditions:

Substantial compliance with the current permit is a condition of permit renewal.

SA – Special Approvals / Conditions Table

Item #	Description
1	On or before the 28th day of the first month of each quarter, the Permittee shall submit to the Division a log of the daily backwash cycles and volume of water discharged during each month of the previous quarter. The log shall be submitted with the quarterly discharge monitoring reports (DMRs).

Flow:

30-Day Average ≤ 0.030 MGD

Corrective Action Sites:

There are no Bureau of Corrective Actions remediation sites located within one mile of the permitted facility.

Wellhead Protection Program:

The permitted facility is not located within a Drinking Water Protection Area or a Wellhead Protection Area.

Schedule of Compliance:

SOC – Schedule of Compliance Table

Item #	Description	Due Date
1	The Permittee shall submit a new Operations and Maintenance (O&M) Manual to the Division. The O&M Manual shall be prepared in accordance with the relevant sections of guidance document <i>WTS-2: Minimum Information Required for an Operation and Maintenance Manual for a Wastewater Treatment Plant</i> . The O&M Manual shall include a routine schedule for inspecting the sand separator and removing excess sand as necessary.	4/28/2016

Deliverable Schedule:

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

Item #	Description	Interval	First Scheduled Due Date
1	Quarterly DMRs	Quarterly	4/28/2016
2	Annual Report	Annually	1/28/2017
3	Backwash Cycle Log	Quarterly	4/28/2016

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 **Reno Gazette Journal, Elko Daily Free Press** 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. **10/15/2015**, 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: **Alan Pineda**

Date: **9/8/2015**

Title: **Staff I Associate Engineer**