

NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

F A C T S H E E T
(pursuant to NAC 445A.236)

Permittee Name: Churchill County Planning Department
155 North Taylor Street, Suite 153
Fallon, Nevada 89406

Permit Number: NEV2006511

Description of Discharge

Location: Churchill County Wastewater Treatment Plant
2655 Country Club Drive
Fallon, Nevada 89406

Churchill County, Nevada

Latitude 39° 28' 57"N; Longitude 118° 48' 41"W
Section 26, T. 19N., R. 28E., MDB&M

General: The Permittee has applied for a permit to discharge treated wastewater to groundwaters of the state via an export pipelines to an existing golf course irrigation storage pond, and to either a second golf course storage pond or offsite rapid infiltration basins (RIBs), or, to both if needed. The proposed activated sludge Ashbrook designed Sequencing Batch Reactor (SBR) package treatment plant is designed to treat up to 0.160 MGD of domestic wastewater to meet 30 mg/l BOD and 30 mg/l TSS and less than 10 mg/l Total Nitrogen as N. The plant will produce high quality denitrified, disinfected effluent suitable for reuse, and will be operated in accordance with the Operations and Maintenance Manual (O & M) for the facility. Treated effluent will be disinfected to 2.2/CFU/MPN/ml Fecal Coliform quality prior to reuse for landscape irrigation at the Fallon Golf Course and winter storage pond(s)(Outfall 001), and to the approved offsite Ribs (Outfall 002) for disposal.

The plant will consist of a headworks with a mechanical screen, a 45,000 gallon flow equalization basin, and SBR aeration/clarification basins (expandable to two), a secondary clarifier, a chlorine contact basin for disinfection, and the effluent pump station for effluent discharge for reuse or storage. Sludge removed from the SBR basins will be pumped to an aerobic digester from which the waste sludge will be directed to a sludge dewatering system (belt filter press) for disposal in the landfill.

The new plant is expected to be completed and in the start-up mode by January 2007, and when fully operational will serve the adjacent subdivisions. Once operational, treated effluent will be stored in the golf course ponds for the winter and then supplied to the Fallon Golf Course in the Spring. The golf course will have a separate permit to utilize the treated effluent for landscape irrigation and storage.

The wastewater treatment facility consists of a collection system, lift station(s), treatment facility and an export pipeline(s) to carry treated effluent to the golf course for storage and reuse, and to an offsite RIBs. Other approved reuse sites/facilities will be added as minor modifications.

Flow: The plant facility has a flow limit of 0.160 MGD (million gallons a day) for a 30-day average, and 0.345 daily maximum.

Effluent Limitations:

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

<u>PARAMETERS</u>	<u>DISCHARGE LIMITATIONS</u>		<u>MONITORING REQUIREMENTS</u>	
	<u>30-day Ave.</u>	<u>Daily Max</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
INFLUENT FLOW:	0.160 MGD	0.345 MGD	Continuous	Recorder
EFFLUENT FLOW:	M & R MGD	M & R MGD	Continuous	Meter
Outfall 001				
Outfall 002				
INFLUENT BOD ₅ :	M & R mg/L	M & R mg/L	Monthly	Composite
EFFLUENT BOD ₅ :	30 mg/L	45 mg/L	Monthly	Composite
TOTAL SUSPENDED				
SOLIDS: INFLUENT:	M & R mg/L	M & R mg/L	Monthly	Composite
EFFLUENT:	30 mg/L	45 mg/L	Monthly	Composite
AMMONIA as N:	M & R mg/L	M & R mg/L	Monthly	Composite
NITRATE AS N:	M & R mg/L	M & R mg/L	Monthly	Composite
TOTAL NITROGEN				
as N:	10 mg/L	M & R mg/L	Monthly	Composite
pH:	Between 6.0 and 9.0 SU		Monthly	Discrete
FECAL COLIFORM:	2.2 CFU/100 ml	23 CFU/100 ml	Monthly	Discrete

Note: M & R = Monitor and Report CFU = colony forming units
 ml = milliliter MGD = million gallons per day
 SU = standard units mg/L = milligrams per liter

Receiving Water Characteristics: The receiving water is the groundwater of the State of Nevada. Based on historic data, the groundwater in the immediate area is not used as a drinking water source due to varying high concentrations of TDS, nitrates from septic systems in the area, and presence of arsenic and agrichemicals from agricultural irrigation. Depth to groundwater is about 13.5-16 feet below ground surface. Drinking water is obtained from the intermediate aquifer at about 180' in depth. Drinking water in this service area will be provided from a municipal supply with arsenic removal as needed, and chlorinated to meet State Drinking Water regulation.

Procedures for Public Comment:

The notice of the Division's intent to issue a permit authorizing the facility to discharge to groundwaters of the State of Nevada subject to the conditions contained within the permit, is being sent to the **Lahontan Valley News/Fallon Eagle Standard** 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 for a period of 30 days following the date of the newspaper publication 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 U.S. 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 scheduled by the Administrator must be conducted in the geographical area of the proposed discharge or any other area the Administrator determines to be appropriate. All public hearings must be conducted in 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 the proposed permit for a five (5) year period.

Schedule of Compliance and Special Conditions

- a. The Permittee shall achieve compliance with the effluent limitations upon issuance of the permit.
- b. An Operations and Maintenance Manual (O & M) shall be submitted to the Division for review and approval by September 8, 2007. Interim wastewater handling shall be noted in the document. A Sludge Management Plan shall also be included in the O & M Manual. If sludge is disposed to locations other than approved landfill sites, said plan must also address Part 40 CFR Section 503 of the federal regulations.
- c. A letter of Certification wet-stamped by a Nevada Registered Professional Engineer stating that all plant elements have been constructed in accordance with Division approved plans for the facility shall be submitted to the Division within 15 days of completion of plant construction. A copy of the as-builts for the new plant facility and its related infrastructure shall also be included with the Certification.

Rationale for Permit Requirements:

Monitoring is required to assess the level of treatment being provided, to determine when design capacity is being approached and to ensure that groundwaters are not degraded.