

NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

FACT SHEET (Pursuant to NAC 445A.236)

Permittee Name: Rebecca and Joseph Schneider
Schneider Ranch
1 Schneider Ranch Road
Douglas County, Nevada

Latitude: 39° 5' 15" N Longitude: 119° 50' W,
Township 16N, Range 18E, Section 23

Permit Number: NEV98013

General:

The Applicants have applied for a renewal of permit NEV98013 to reuse treated effluent generated by the Incline Village General Improvement District's wastewater treatment plant. The Schneider Ranch has used effluent from Incline Village for approximately 34 years. The reuse of effluent was first covered under the Incline Village GID permit, NEV30009. Joseph and Rebecca Schneider applied for and received a reuse permit in their own name in 1999. The Schneider Ranch proposes to use effluent to irrigate approximately 600 acres of rangeland pasture and hay fields. Both spray and flood irrigation will be used.

Receiving Water Characteristics:

The depth to ground water under the Schneider Ranch varies from zero feet to eight feet below the surface. Groundwater quality is monitored in four monitor wells around the site: MW-7, MW-8, MW-9, and MW-10. Water is of good quality, well below the primary drinking water standards for nitrate and the secondary drinking water levels for chloride and TDS. During the term of the current permit, average nitrate, chloride, and TDS levels have been 1.3, 24.5, and 195.7 mg/l, respectively. Reported values indicate slight upward trends in Nitrogen, TDS, and Chloride at monitor well MW-7, though permit limitations have not been exceeded. Inspection of the MW-7 location indicates that rodents have burrowed under the concrete slab covering the monitor well, and may have compromised the well.

Description of the Location of the Discharge:

The applicants ranch is located in Jack's Valley in Douglas County, Section 23, Township 16N, Range 18E.

Reuse Effluent Characteristics:

The treated effluent from the Incline Village General Improvement District's wastewater treatment facility (WWTF) has been treated to meet secondary treatment standards, and limited per Permit NEV30009. Average values for the effluent reused on the Schneider Ranch during the term of the current permit include the following: 8.0 mg/l 30-Day Average and 11.6 mg/l Daily Maximum BOD₅; 13.6 mg/l 30-Day Average and 28.8mg/l Daily Maximum Total Suspended Solids (TSS); 7.9 Colony Forming Units (CFU)/100 cc 30-Day Average and 12.5 CFU/100 cc Daily Maximum Fecal Coliform; 6.78 to 7.76 Standard Units pH; and 4.1 mg/l Dissolved Oxygen. During the term of the current permit, average application rate was 0.490 MGD. Reuse of WWTF effluent typically occurred only during the months of May through November.

Procedures for Public Comment:

The Notice of the Division's intent to issue a permit authorizing the facility to discharge to the groundwater of the State of Nevada, subject to the conditions contained within the permit, is being sent to the **Nevada Appeal** and the **Record-Courier** for publication. The notice is being mailed to interested persons on our mailing list. Anyone wishing to comment on the proposed permit may do so in writing for a period of 30 days following the date of the public notice. All comments regarding this permit must be received or postmarked by **5:00 PM on October 15, 2004**. 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 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 renew the permit for a period of five (5) years.

Proposed Effluent and Monitoring Requirements and Schedule of Compliance

Effluent quality shall be monitored and reported by the Incline Village WWTF, as limited and proscribed by Permit NEV30009. The Permittee named in this permit will be limited by the

following discharge limitations:

PARAMETER	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS	
	30 - Day Average	Daily Maximum	Measurement Frequency	Sample Type
Flow (MGD)	2.0	*****	Continuous	Flow Meter
Nitrate as N ⁽¹⁾ (mg/l)	Monitor and Report		Once/Month	Composite
Total Nitrogen as N ⁽²⁾ (mg/l)	Monitor and Report		Once/Year ⁽⁴⁾	Calculate
Total Nitrogen Applied ⁽²⁾ (pounds)	101.9		Once/Year ⁽⁴⁾	Calculate
Fecal Coliform Bacteria ⁽¹⁾ (colony forming units/100ml)	23 ⁽³⁾	240 ⁽³⁾	Once/Month	Discrete

- ⁽¹⁾ Monitoring requirements may be satisfied by monitoring performed at the Incline Village Wastewater Treatment plant. However results must be reported on a DMR for this facility.
- ⁽²⁾ Includes nitrogen from all sources including any fertilizer applied.
- ⁽³⁾ 30-day Geometric Mean.
- ⁽⁴⁾ Report the Total Nitrogen Applied in the Annual Report

Monitoring wells: MW-7, MW-8, MW-9, MW-10. shall be monitored according to the table below:

PARAMETERS	GROUNDWATER LIMITATIONS	MONITORING REQUIREMENTS	
		Measurement Frequency	Sample Type
Groundwater Elevation (ft)	Monitor and Report	Quarterly	Calculated
Depth to Water (ft)	Monitor and Report	Quarterly	Discrete
Total Nitrogen as N (mg/l)	Monitor and Report	Quarterly	Discrete
Nitrate as N (mg/l)	10	Quarterly	Discrete
Total Dissolved Solids (mg/l)	Monitor and Report	Quarterly	Discrete
Chloride (mg/l)	Monitor and Report	Quarterly	Discrete

Schedule of Compliance

The Permittee shall implement and comply with the provisions of the schedule of compliance after approval by the Administrator, including in said implementation and compliance, any additions or modifications that the Administrator may make in approving the schedule of compliance.

- a. The Permittee shall achieve compliance with the effluent limitations upon issuance of the permit.
- b. A brief update to the Effluent Management Plan (EMP) shall be submitted to the division for approval by November 30, 2004.
- c. **By November 30, 2004**, the Permittee shall submit a plan, developed in conjunction with Incline Village General Improvement District, for either rehabilitation of monitor well MW-7 or installation of a replacement monitor well.

Rationale for Permit Requirements

Monitoring is required to verify effluent reuse complies with permit limitations, and that effluent reuse does not degrade groundwaters of the State.

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