

Brian Sandoval, Governor

Brian Sandoval, Governor Leo M. Drozdoff, P.E., Director David Emme, Administrator

FACTSHEET (pursuant to NAC 445A.236)

Permittee Name: SCHNEIDER RANCH 1 SCHNEIDER RANCH ROAD CARSON CITY, NV - 89705

Permit Number: NS0098013

Location: SCHNEIDER RANCH, DOUGLAS 1 SCHNEIDER RANCH ROAD, CARSON CITY, NV - 89705 LATITUDE: 39.0875, LONGITUDE: -119.833333 TOWNSHIP: 16N, RANGE: 18E, SECTION: 23

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Outfall City	Outfall State	Outfall Zip	Outfall County	Latitude	Longitude	Receiving Water
001	REUSE	Land Application Site		CARSON CITY	NV	89705	DOUGLAS	39.0875	-119.833333	GROUNDWATER
002	MONITORING WELL MW-9	Monitoring Well		CARSON CITY	NV	89705	DOUGLAS	39.0875	-119.833333	GROUNDWATER
003	MONITORING WELL MW-10	Monitoring Well		CARSON CITY	NV	89705	DOUGLAS	39.0875	-119.833333	GROUNDWATER

General:

The permittee, Schneider Ranch, has applied for a renewal of permit NS0098013 to reuse treated effluent generated by the Incline Village General Improvement District (IVGID) Water Resource Recovery Facility for a total of 1.00 million gallons per day (MGD) flow limit. The Schneider Ranch has reused water from Incline Village for approximately 45 years. The reuse of effluent was first covered under the Incline Village GID permit, NEV30009 (now referred to as NS0030009). Most recently, Schneider Ranch, applied for and received a reuse permit in 2010. The Schneider Ranch proposes to reuse effluent, up to 1.00 MGD, to irrigate approximately 600 acres of rangeland pasture and hay fields. Both spray and flood irrigation will be used. Reuse of WWTF effluent typically occurred only during the months of May through November and is expected to follow the same pattern.

Discharge Characteristics:

As per the permit renewal of 2010, the permit allowed for a modified maximum flow rate of 1 million gallons per day (MGD). In view of the reported average operational flow of 0.576 MGD, in effect, permit flow limit in the proposed permit renewal remains same at 1 MGD as prior renewal.

The treated effluent from the Incline Village General Improvement District's (IVGID) Water Resource Recovery Facility is treated to meet secondary treatment standards, limited per Permit NS0030009 (previously referred to as NEV30009). The reuse permit requires reporting of effluent quality, as provided by IVGID.

Receiving Water:

Groundwater quality is monitored in two monitor wells at the site: MW-9 and MW-10. As per the well logs, the groundwater is encountered at 2 feet below ground surface.

Summary of Changes From Previous Permit:

NEV98013 is now referred to as NS0098013, this reflects no change in the type of permit issued.

Permittee is approved for renewal of prior permit with for reuse of effluent for a flow rate of up to 1.00 MGD (previously 0.99 MGD) from IVGID.

Permittee is requested to submit an EMP for the wastewater reuse.

Permittee is requested to submit co-ordinates for the monitoring wells (MW-9 and MW-10)

Proposed Effluent Limitations:

Permittee is approved for renewal of prior permit for reuse of effluent at flow rate of up to 1.00 MGD from IVGID.

Groundwater Monitoring Wells Table for Sample Location 002 (Monitoring Well Mw-9) To Be Reported Quarterly

Discharge Limitations Monitoring Requirements									
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type		
Chloride (as Cl)	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	002	Quarterly	DISCRT		
Solids, total dissolved	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	002	Quarterly	DISCRT		
Nitrogen, nitrate total (as N)	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	002	Quarterly	DISCRT		
Nitrogen, total	Quarterly Maximum		<= 10 Milligrams per Liter (mg/L) ^[3]	Groundwater	002	Quarterly	DISCRT		
Depth to water level ft below landsurface ^[2]	Quarterly Maximum	M&R Feet (ft)		Groundwater	002	Quarterly	DISCRT		
Water level relative to mean sea level ^[1]	Quarterly Maximum	M&R Feet (ft)		Groundwater	002	Quarterly	CALCTD		

Notes (Groundwater Monitoring Wells Table):

1. Groundwater Elevation (ft).

2. Depth to Groundwater (ft).

3. If the Total Nitrogen levels increase to 7.0 mg/L an alternate method of disposal, approved by the Division, shall be selected. If the Total Nitrogen levels increase to 9.0 mg/L construction of the approved alternate site must begin. If the Total Nitrogen levels increase to 10.0 mg/L the discharge to groundwater must cease.

Groundwater Monitoring Wells Table for Sample Location 003 (Monitoring Well Mw-10) To Be Reported Quarterly

Discharge Limitations Monitoring Requirements								
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type	
Water level relative to mean sea level ^[1]	Quarterly Maximum	M&R Feet (ft)		Groundwater	003	Quarterly	CALCTD	
Chloride (as Cl)	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	003	Quarterly	DISCRT	
Solids, total dissolved	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	003	Quarterly	DISCRT	
Nitrogen, nitrate total (as N)	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	003	Quarterly	DISCRT	
Nitrogen, total	Quarterly Maximum		<= 10 Milligrams per Liter (mg/L) ^[3]	Groundwater	003	Quarterly	DISCRT	
Depth to water level ft below landsurface ^[2]	Quarterly Maximum	M&R Feet (ft)		Groundwater	003	Quarterly	DISCRT	

Notes (Groundwater Monitoring Wells Table):

1. Groundwater Elevation (ft).

2. Depth to Groundwater (ft).

3. If the Total Nitrogen levels increase to 7.0 mg/L an alternate method of disposal, approved by the Division, shall be selected. If the Total Nitrogen levels increase to 9.0 mg/L construction of the approved alternate site must begin. If the Total Nitrogen levels increase to 10.0 mg/L the discharge to groundwater must cease.

Re-use Discharge Limitations Table for Sample Location 001 (Land Application Site) To Be Reported Quarterly

		Discharge L	Monitoring Requirements				
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Flow rate	Daily Maximum	M&R Million Gallons per Day (Mgal/d)		Prior to Reuse	001	Continuous	METER
Flow rate	30 Day Average	<= 1.00 Million Gallons per Day (Mgal/d)		Prior to Reuse	001	Continuous	METER
Coliform, fecal, colony forming units	Monthly Maximum		<= 240 Colony Forming Units per 100ml T (CFU/100mL) ^[2]	Prior to Reuse	001	Monthly	DISCRT
Coliform, fecal, colony forming units ^[1]	Monthly Geometric Mean		<= 23 Colony Forming Units per 100ml T (CFU/100mL) ^[2]	Prior to Reuse	001	Monthly	DISCRT
Nitrogen, total ^[1]	Monthly Maximum		<= 10 Milligrams per Liter (mg/L)	Prior to Reuse	001	Monthly	COMPOS
Nitrogen, nitrate total (as N) ^[1]	Monthly Average		M&R Milligrams per Liter (mg/L)	Prior to Reuse	001	Monthly	COMPOS

Notes (Re-use Discharge Limitations Table):

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. 30-day Geometric Mean.

Re-use Discharge Limitations Table for Sample Location 001 (Land Application Site) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Nitrogen, total ^[1]	Annual Total	<= 101.9 Pounds per Year (lb/yr)	M&R Milligrams per Liter (mg/L)	Prior to Reuse	001	Annual ^[2]	CALCTD

Notes (Re-use Discharge Limitations Table):

1. Include Nitrogen from all sources including any fertilizer applied.

2. Report the Total Nitrogen Applied in the Annual Report.

Rationale for Permit Requirements:

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

Fecal Coliform:

Ground water is encountered at very shallow depths (2 feet) in each of the monitoring wells. Monitoring fecal coliform will help ensure the quality of the subsurface runoff from this facility to the US ground waters and the facility to be in compliance with category C reuse standards.

Special Conditions:

Permittee is required to submit Effluent Management Plan.

SA – Special Approvals / Conditions Table

ltem #	Description
1	The current renewal is conditioned upon substantial compliance to the original permit conditions and guidelines.
2	The requirement to electronically submit Discharge Monitoring Reports (DMRs) within 1 year of permit issuance has been added. The Bureau of Water Pollution Control"s Nevada NetDMR system is a website that allows for electronic submission of DMRs. By using Nevada NetDMR, Permittees will save time, and data will automatically error-check and validate the information prior to submission. All necessary attachments and supplemental documentation can also be uploaded using the NetDMR system.
3	As per current NDEP conventions, permit number has been changed from NEV98013 to NS0098013. This change does not reflect a change in the type of permit being issued.

Flow:

30-day average flow of reclaimed water for reuse is limited to 1.0 MGD.

Daily maximum flow is M & R.

Corrective Action Sites:

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

Wellhead Protection Program:

The facility is not currently within an established Source Water Protection Area.

Schedule of Compliance:

Item #	Description	Due Date
1	Permittee shall submit an updated Effluent Management Plan (EMP).	12/1/2016
2	Please provide location coordinates for the monitoring wells (MW-9 & MW-10).	10/28/2016

SOC – Schedule of Compliance Table

Deliverable Schedule:

Item #	Description	Interval	First Scheduled Due Date						
1	Quarterly DMRs	Quarterly	1/28/2017						
2	Annual DMRs	Annually	1/28/2017						
3	Annual Report	Annually	1/28/2017						

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

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 **The Record Courier, 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. **9/22/2016**, 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:sharada MaligireddyDate:9/16/2016Title:Staff Engineer