



STATE OF NEVADA

Department of Conservation & Natural Resources

Brian Sandoval, Governor

Leo M. Drozdoff, P.E., Director

DIVISION OF ENVIRONMENTAL PROTECTION

Colleen Cripps, Ph.D., Administrator

FACTSHEET (pursuant to NAC 445A.236)

Permittee Name: WASHOE COUNTY COMMUNITY SERVICE DEPARTMENT
2601 PLUMAS ST
RENO, NV - 89509

Permit Number: NS0099011

Location: NORTH VALLEY REGIONAL SPORTS COMPLEX, WASHOE
8085 SILVER LAKE DRIVE, RENO, NV - 89506
LATITUDE: 39.625359, LONGITUDE: -119.867172
TOWNSHIP: T20N, RANGE: R19E, SECTION: S5

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Outfall City	Outfall State	Outfall Zip	Outfall County	Latitude	Longitude	Receiving Water
001	EFFLUENT REUSE	Land Application Site		RENO	NV	89506	WASHOE	39.623611	-119.8675	GROUNDWATER
MW1	SCMW1	Monitoring Well		RENO	NV	89506	WASHOE	39.625556	-119.868889	GROUNDWATER

General:

The applicant, Washoe County Community Service Department, has applied for renewal of groundwater discharge permit NS0099011 (NEV99011) which authorizes a discharge to groundwater at the North Valley Regional Sports Complex (NVRSC).

NVRSC uses secondary-treated and denitrified effluent, supplied by Reno-Stead Water Reclamation Facility (RSWRF) under NDEP permit NS2008500, for irrigation of approximately 20 acres of turf and landscaping. The reclaimed water is disinfected to meet reuse Category A requirements (NAC 445A.2762) prior to delivery to a 1.2 million gallon, 60-mil HDPE-lined storage reservoir at NVRSC. Reclaimed water is pumped from RSWRF to NVRSC daily during the irrigation season, typically April 1st through October 31st.

NVRSC is located west of Military Road at the intersection of Sky Vista Parkway and Silver Lake Boulevard in Washoe County. At build-out, NVRSC will consist of approximately 50 acres of turf grass and landscaping. The facilities currently include 6 soccer fields, 4 baseball fields, 2 volleyball courts, a skateboard park, a children's playground, hiking trails and picnic areas. One monitoring well is located 100 feet north-northeast of the storage reservoir. This well is used as a leak detection mechanism for the storage reservoir.

Discharge Characteristics:

During the term of the previous permit, which began on June 7, 2007, the following average discharge concentrations were reported for the months when a discharge occurred:

1. Flow - 0.184 million gallons per day.
2. Fecal coliform - 1.7 MPN/100mL.
3. Total nitrogen - 6.1 mg/L.

Receiving Water:

Groundwater of the State via percolation. Groundwater at the storage reservoir is reported to be approximately 10 feet below ground surface. Groundwater flow direction was not reported but is presumed to be to the northeast towards Swan Lake. During the same permit term referenced above, the following average groundwater characteristics were reported:

1. Depth to groundwater - 12.8 feet.
2. Total dissolved solids - 455 mg/L.
3. Total nitrogen as N - 4.5 mg/L.
4. Chloride - 79 mg/L.

Summary of Changes From Previous Permit:

In order to maintain consistency with current NDEP policy and the monitoring requirements of similar facilities, the following permit changes have been made:

1. The requirement to report the Annual Application Volume has been removed from this permit.
2. The requirement to monitor the amount of total dissolved solids in the reclaimed water has been removed from this permit.
3. The requirement to monitor the amount of chloride in the reclaimed water has been removed from this permit.
4. The requirement to submit an EMP adherence document each quarter has been added to this permit.
5. The requirement to monitor the amount of nitrate as nitrogen and the elevation of groundwater in the monitoring well has been removed from this permit.
6. Due to a new permit naming convention at NDEP, Bureau of Water Pollution Control, the permit ID has been changed from NEV99011 to NS0099011. This change does not reflect a change in the type of permit being issued.

Proposed Effluent Limitations:

The Division proposes the following permit limitations and monitoring requirements:

Groundwater Monitoring Wells Table for Sample Location Mw1 (Monitoring Well) To Be Reported Quarterly

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	S a m p l e Type
Depth to water level ft below landsurface	Value	M&R Feet (ft)		Groundwater	MW1	Quarterly	DISCRT
Chloride (as Cl)	Value		M&R Milligrams per Liter (mg/L)	Groundwater	MW1	Quarterly	DISCRT
Nitrogen, total	Value		< 10.0 Milligrams per Liter (mg/L)	Groundwater	MW1	Quarterly	DISCRT
Solids, total dissolved	Value		M&R Milligrams per Liter (mg/L)	Groundwater	MW1	Quarterly	DISCRT

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

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Flow rate	30 Day Average	<= 0.36 Million Gallons per Day (Mgal/d)		Prior to Irrigation	001	Continuous	METER
Flow rate	Daily Maximum	<= 0.40 Million Gallons per Day (Mgal/d)		Prior to Irrigation	001	Continuous	METER
Coliform, total general	30 Day Average		<= 2.2 Most Probable Number per 100ml T (MPN/100m L)	Prior to Irrigation ^[1]	001	Weekly	DISCRT
Coliform, total general	Daily Maximum		<= 23 Most Probable Number per 100ml T (MPN/100m L)	Prior to Irrigation ^[1]	001	Weekly	DISCRT
Nitrogen, total	30 Day Average		M&R Milligrams per Liter (mg/L)	Prior to Irrigation ^[1]	001	Monthly	DISCRT
Nitrogen, total	Daily Maximum		M&R Milligrams per Liter (mg/L)	Prior to Irrigation ^[1]	001	Monthly	DISCRT

Notes (Re-use Discharge Limitations Table):

1. The Permittee may use the monitoring data submitted under Permit NS2008500, but shall report the data separately in the Discharge Monitoring Reports associated with this permit.

Rationale for Permit Requirements:

Monitoring is required to allow the Permittee to track the amount of nitrogen being applied to the turf and landscaping, to confirm the level of disinfection being provided by the reclaimed water supplier, and to ensure the storage reservoir is not leaking.

Fecal Coliform:

The reclaimed water is required to meet reuse Category A requirements (NAC 445A.2762).

Special Conditions:

SA – Special Approvals / Conditions Table

Item #	Description
1	Each quarter, the Permittee shall submit a document confirming adherence to the approved EMP. This document shall be signed, and shall contain the following certification. "I certify that, for each month during the previous quarterly reporting period, all operational procedures and calculated application rates outlined in the approved Effluent Management Plan were adhered to."
2	The Permittee shall maintain a minimum freeboard depth of 2 ft. in the storage reservoir.
3	Damaged ponds or liners shall be repaired. The Division shall be notified in writing within one week of discovery, and a repair plan shall be submitted within one month.

Flow:

The Permittee has requested a 30-day average flow rate of 0.36 million gallons per day (MGD) and a daily maximum flow rate of 0.40 MGD.

Corrective Action Sites:

There is one NDEP Bureau of Corrective Actions remediation site (4-000732) located within one mile of this facility. The NDEP case officer for this site does not believe that the renewal of this discharge permit will have a negative impact on the ongoing remediation activities.

Wellhead Protection Program:

This facility is located within the 6,000-foot Drinking Water Protection Areas of six Public Water Supply (PWS) wells. Two of the wells, Webb Mobile Home Park W01 and W02, are ranked as highly vulnerable to inorganic compounds. Reno Sahara Trailer Park well W01 is ranked as moderately vulnerable to inorganic compounds, volatile organic compounds, and total coliform. North Valley Bus Facility well W01 is ranked as moderately vulnerable to volatile organic compounds. This facility is not located within a Wellhead Protection Area.

The reclaimed water supplied by RSWRF has averaged just 6.1 mg/L of nitrogen over the 5 year term of the previous permit and these concentrations are not expected to increase. Additionally, the Permittee is required to ensure that nitrogen application rates will not exceed the nitrogen uptake rates included in the Permittee's effluent management plan. Discharges from this facility are not expected to affect these PWS wells.

Schedule of Compliance:

SOC – Schedule of Compliance Table

Item #	Description	Due Date
1	The Permittee shall submit two (2) copies of an updated Effluent Management Plan (EMP) for review and approval by the Division. The EMP shall be prepared by a Nevada Registered Professional Engineer or other qualified person. If no updates or revisions are required, the Permittee shall submit a letter by the due date stating that there have been no changes to the previously approved EMP. ^[1]	11/29/2013

Notes (Schedule of Compliance Table):

1. If the EMP is prepared by a Nevada Registered Professional Engineer, it must be signed and stamped in accordance with NAC 625.610.

Deliverable Schedule:

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

Item #	Description	Interval	First Scheduled Due Date
1	EMP adherence document	Quarterly	10/28/2013
2	Discharge Monitoring Reports	Quarterly	10/28/2013

Procedures for Public Comment:

The Notice of the Division's intent to reissue 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** 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. **9/2/2013**, 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.650.

Proposed Determination:

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

Prepared by: **Arthur Marr III**

Date: **7/23/2013**

Title: **P.E.**