



FACTSHEET
(pursuant to NAC 445A.236)

Permittee Name: WASHOE COUNTY DEPARTMENT OF REGIONAL PARKS AND OPEN SPACE
1001 E 9TH ST., BLDG. A, 2ND FLOOR
RENO, NV 89512

Permit Number: NS2004501

Permit Type: GROUNDWATER DISCHARGE

Designation: GROUNDWATER

New/Existing: EXISTING

Location: DESERT WINDS PARK, EAGLE CANYON PARK, GATOR SWAMP PARK, AND LAZY 5 PARK, WASHOE
VARIOUS LOCATIONS, SPARKS, NV 89436
LATITUDE: 39.60, LONGITUDE: -119.70
TOWNSHIP: T20N, 21N, RANGE: R20E, SECTION: S10, 26, 34

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Latitude	Longitude	Receiving Water
001	DESERT WINDS PARK	External Outfall		39.64093060	-119.720305	GROUNDWATER
002	EAGLE CANYON PARK	External Outfall		39.64506940	-119.721055	GROUNDWATER
003	GATOR SWAMP PARK	External Outfall		39.65436110	-119.713277	GROUNDWATER
004	LAZY 5 PARK	External Outfall		39.62002780	-119.722263	GROUNDWATER
005	TOTAL OF ALL OUTFALLS (001-004)	Sum		39.60	-119.70	GROUNDWATER

Permit History/Description of Proposed Action

The Permittee, Washoe County Department of Regional Parks and Open Space, has applied for the renewal of Permit NS2004501 for the Desert Winds Park, Eagle Canyon Park, Gator Swamp Park, and Lazy 5 Park, located at 105 Ember Drive (Desert Winds), 400 Eagle Canyon Drive (Eagle Canyon), 255 Egyptian Drive (Gator Swamp), and 7100 Pyramid Way (Lazy 5), in the Sparks/Spanish Springs area, Washoe County, Nevada. The Permittee proposes to continue to use reclaimed water to irrigate the four park sites, via sprinkler and drip irrigation, within each of their boundaries.

This permit was first issued on June 1, 2004. The most recent permit was issued on November 1, 2016, and expired on October 31, 2021; the permit has been administratively continued since.

Facility Overview

The Permittee, Washoe County Department of Regional Parks and Open Space, will be supplied with reclaimed water from the Truckee Meadows Water Reclamation Facility (TMWRF, NS2003506) for applied irrigation use. The permitted daily maximum flow to serve the four parks is limited to 0.59 million gallons per day (MGD) total.

Reclaimed water is delivered from TMWRF, through an effluent transmission main, to the four applied places of use – Desert Winds Park, Eagle Canyon Park, Gator Swamp Park, and Lazy 5 Park.

Desert Winds Park is a 7.4-acre neighborhood park composed of picnic areas, a children's playground, horseshoe pits, a multi-use turf area, and paved walking path.

Eagle Canyon Park is a 7.14-acre park that has several picnic sites, children's playground areas, horseshoe pits, and an exercise course.

Gator Swamp Park is a 9.35-acre neighborhood park featuring a youth baseball/soccer combo field, picnic areas, a children's playground areas, volleyball court, horseshoe pits, and a hiking/walking path.

Lazy 5 Park is an 85-acre park with two children's playgrounds, large picnic areas, skatepark, a water play park, soccer fields, volleyball court, horseshoes pits, basketball/pickleball courts, and open space hiking/biking trails.

Each park has an irrigation system composed of a backflow preventer, meter, and distribution system for sprinkler and drip irrigation of the landscape vegetation and turf areas, with 70 acres being irrigated, out of 109 acres total, between the four park sites.

The park sites' Reclaimed Water Management Plan (RWMP) (formerly known as an Effluent Management Plan) was last reviewed and approved by the Division on May 3, 2019. The Technical, Compliance, and Enforcement (TCE) Branch of the Bureau of Water Pollution Control requires RWMPs be updated every two (2) permit cycles which equates to every ten (10) years with the next due date being May 3, 2029.

Outfall Summary

Outfall 001 - This external outfall is for the discharge of reclaimed water for the irrigation of the Desert Winds Park.

Outfall 002 - This external outfall is for the discharge of reclaimed water for the irrigation of the Eagle Canyon Park.

Outfall 003 - This external outfall is for the discharge of reclaimed water for the irrigation of the Gator Swamp Park.

Outfall 004 - This external outfall is for the discharge of reclaimed water for the irrigation of the Lazy 5 Park.

Outfall 005 - This sum outfall is for the reporting of the sum total of flow rate, fecal coliform, and total nitrogen for Outfalls 001 through 004.

Effluent Characterization

Nevada State Network Discharge Monitoring Report (NetDMR) data, as reported from November 2019 to October 2024, was reviewed as part of this permit renewal process. The average daily maximum reported during this reporting period was 0.19 million gallons per day (MGD). The daily maximum discharge flow rate for Outfall 005 is limited to 0.59 MGD. There were no exceedances reported.

TMWRF provides tertiary treated, denitrified, and disinfected reclaimed water which meets Category B bacteriological quality per Nevada Administrative Code (NAC) 445A.276 to the parks; therefore, the reclaimed water should meet, at a minimum, a daily maximum fecal coliform of 23 colony forming units (CFU) / 100 mL and a 30-day geometric mean of 2.2 CFU / 100 mL. The long-term, average daily maximum was 4.31 CFU / 100 mL for the time period reviewed. There were no exceedances noted during that time.

Pollutants of Concern

Pollutants of concern are any pollutants or parameters that are believed to be present in the discharge, and could affect or alter the physical, chemical, or biological condition of the receiving water. Common pollutants of concern for denitrified reclaimed water are fecal coliform and total nitrogen.

Receiving Water

The receiving water is groundwater of the State. Depth to groundwater in the vicinity varies. The treated reclaimed water provided for reuse is denitrified below 10 mg/l total nitrogen concentration, and when applied in accordance with the approved Reclaimed Water Management Plan (RWMP), no adverse affects to groundwater due to applied use are expected. Groundwater monitoring wells are not required for any of the sites covered by this permit.

Compliance History

The park sites were in substantial compliance during the November 2019 to October 2024 reporting period.

Proposed Effluent Limitations

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

Re-use Discharge Limitations Table for Sample Location 001 (Desert Winds Park) To Be Reported Monthly

Discharge Limitations				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	M&R Million Gallons per Day (Mgal/d)		Prior to Reuse	001	Continuous	METER

Re-use Discharge Limitations Table for Sample Location 002 (Eagle Canyon Park) To Be Reported Monthly

Discharge Limitations				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	002	Continuous	METER
Flow rate	30 Day Average	M&R Million Gallons per Day (Mgal/d)		Prior to Reuse	002	Continuous	METER

Re-use Discharge Limitations Table for Sample Location 003 (Gator Swamp Park) To Be Reported Monthly

Discharge Limitations				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	003	Continuous	METER
Flow rate	30 Day Average	M&R Million Gallons per Day (Mgal/d)		Prior to Reuse	003	Continuous	METER

Re-use Discharge Limitations Table for Sample Location 004 (Lazy 5 Park) To Be Reported Monthly

Discharge Limitations				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	004	Continuous	METER
Flow rate	30 Day Average	M&R Million Gallons per Day (Mgal/d)		Prior to Reuse	004	Continuous	METER

Re-use Discharge Limitations Table for Sample Location 005 (Total Of Outfalls 001 To 004) To Be Reported Monthly

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Flow rate	Daily Maximum	<= 0.59 Million Gallons per Day (Mgal/d)		Prior to Reuse	005	Continuous	METER
Flow rate	30 Day Average	M&R Million Gallons per Day (Mgal/d)		Prior to Reuse	005	Continuous	METER
Coliform, fecal general ^[2]	30 Day Geometric Mean		<= 2.2 Colony Forming Units per 100ml T (CFU/100mL) ^[1]	Prior to Reuse	005	Daily	DISCRT
Coliform, fecal general ^[2]	Daily Maximum		<= 23 Colony Forming Units per 100ml T (CFU/100mL) ^[1]	Prior to Reuse	005	Daily	DISCRT
Nitrogen, total	Daily Maximum		<= 10 Milligrams per Liter (mg/L)	Prior to Reuse	005	Daily	DISCRT

Notes (Re-use Discharge Limitations Table):

1. CFU or MPN/100 ml.
2. Sample results may be obtained from NS2003506 and reported by the Permittee.

Summary of Changes From Previous Permit

The Reuse Limitations Table for Sample Location 005 (Total) to be reported Monthly was updated to include "Nitrogen, total" to be consistent with current Division reporting standards:

"Nitrogen, total" parameter, with a "Daily Maximum" Base, a Concentration of "Less than or Equal to 10 milligrams per liter (mg/L)", a "Prior to Reuse" Monitoring Location, a "Weekly" Measurement frequency, and a "Discret" Sample Type.

The Outfall 005 description was changed from an "External Outfall" to a "Sum" Location Type.

Technology Based Effluent Limitations

Technology based effluent limitations are not applicable to this permit.

Water Quality Based Effluent Limitations

Water quality based effluent limitations are not applicable to this permit.

Proposed Water Quality Based Effluent Limits (monthly/weekly/daily)

Water quality based effluent limitations are not applicable to this permit.

Basis for Effluent Limitations

The following parameters are monitored to ensure effluent reuse requirements are maintained (NAC 445A.275, 445A.276) and groundwaters of the State are protected:

The proposed permit establishes the requirement to report fecal coliform to assess the quality of reclaimed water being applied for the protection of human health and the environment.

The proposed permit has the added requirement to report nitrogen, on an annual basis, to ensure that the groundwater of the State is not being degraded.

The proposed permit establishes the requirement to report the total nitrogen uptake to ensure groundwater of the State is not being degraded.

Anti-backsliding

None of the proposed permit limits were changed to a less restrictive limit compared to those in the previous permit.

Antidegradation

The Division has developed an antidegradation regulation that is applied on a statewide basis, and which meets the statutory requirements of Nevada's water pollution control law found at Nevada Revised Statute (NRS) 445A.520 and NRS 445A.565 and is consistent with the federal antidegradation policy found at Title 40 in the Code of Federal Regulations (CFR) § 131.12. The objective of the Division's antidegradation regulation is to prevent degradation of Nevada's surface waters and maintain the unique attributes and special characteristics and water quality associated with high-quality waters.

As this permit is for discharges to groundwater, and not surface water, the new antidegradation rule is not applicable. There are currently no specific water quality standards that have been formally adopted by the State for groundwater, however, data reviewed during the renewal process does not indicate the potential for degradation of the groundwater from the reclaimed water discharged within the compliance limits of the proposed permit.

Special Conditions

There are no Special Approvals/Conditions Items associated with this permit.

SA – Special Approvals / Conditions Table

There are no Special Approval / Condition items

Discharges From Future Outfalls/ Planned Facility Changes

The Permittee does not anticipate discharges from any future outfalls or any other changes to the applied use sites.

Corrective Action Sites

There are no active Bureau of Corrective Actions remediation sites within a one-mile radius of any of the four outfalls/discharge sites.

Wellhead Protection Program

There are Public Water Supply (PWS) wells located approximately 800 to 2550 feet up, or cross gradient, from the outfalls that have a depth of approximately 200 to 930. The outfall is located in the Drinking Water Protection Area of the wells, which is defined by a 3,000-foot radius around a PWS well. The outfalls are not located in a Wellhead Protection Area (WHPA), which represents an approximate 10-year capture zone of a well. The wells are at minimal risk based on the confined aquifer, the distance and gradient of the well locations to the outfalls and the well depths.

Schedule of Compliance:

SOC – Schedule of Compliance Table

Item #	Description	Due Date
1	The Permittee shall submit two (2) copies (one hard copy and one electronic copy) of a Reclaimed Water Management Plan (RWMP) to the Division for review and approval. The RWMP shall follow guidance document WTS1B: General Design Criteria for Preparing a Reclaimed Water Management Plan.	5/3/2029

Deliverable Schedule:

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

Item #	Description	Interval	First Scheduled Due Date
1	Quarterly DMRs	Quarterly	7/28/2025
2	Annual Report	Annually	1/28/2026

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 mailed to interested persons on our mailing list and will be posted on our website at <https://ndep.nv.gov/posts>. Anyone wishing to comment on the proposed permit can do so in writing until 5:00 P.M. **3/31/2025**, 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 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/re-issue the proposed 5-year permit.

Prepared by: **Melissa Hanson**

Date: **2/19/2025**

Title: **Staff II Engineer**