



FACTSHEET
(pursuant to NAC 445A.236)

Permittee Name: NEVADA DRAGONRIDGE LLC
552 S. STEPHANIE STREET
HENDERSON, NV 89012

Permit Number: NS0097007

Permit Type: GROUNDWATER DISCHARGE

Designation: GROUNDWATER

New/Existing: EXISTING

Location: DRAGONRIDGE COUNTRY CLUB - GOLF COURSE, CLARK
552 S. STEPHANIE STREET, HENDERSON, NV 89012
LATITUDE: 36.007707, LONGITUDE: -115.445657
TOWNSHIP: 22 S, RANGE: 62 E, SECTION: 26, 27 & 28

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Latitude	Longitude	Receiving Water
001	GOLF COURSE	Land Application Site		36.01144390	-115.058648	GROUNDWATER

Permit History/Description of Proposed Action

The Permittee, Nevada DragonRidge LLC, has applied for the renewal of Permit NS0097007 for the DragonRidge Country Club – Golf Course, located at 552 S. Stephanie Street, in Henderson, within Clark County, Nevada. The Permittee proposes to continue to use reclaimed water to irrigate golf course landscaping and fill associated pond areas falling within the course’s boundary.

This permit was first issued on May 4, 1999. The most recent permit was issued on October 1, 2015, and expired on September 30, 2020; the permit has been administratively continued since.

Facility Overview

The DragonRidge Country Club – Golf Course (DRCCGC) is composed of a clubhouse and 18-hole course, with common areas encompassing approximately 136 acres total. The golf course is irrigated with reclaimed water supplied by the Kurt R. Segler Water Reclamation Facility (KRSWRF), which discharges to the Green Valley Reclaimed Water Distribution System (GVRWDS) and the Southwest Water Reclamation Facilities (SWRF), under KRSWRF permit NS0080003, then into a reclaimed water transmission main for applied use at various reuse sites throughout Henderson.

The reclaimed water is brought into the DRCCGC via connection to the City of Henderson’s reclaimed water transmission main. A 16”-diameter PVC lateral conveys the reclaimed water onto the site and discharges into an irrigation reservoir. The single multi-level, 30-mil PVC lined reservoir, having a surface of 2.1 acres, stores the reclaimed water onsite. The irrigation system pumps effluent from the reservoir to irrigate the golf course for both low and high zones. The effluent is used for both irrigation and recirculation within the multi-level water feature. The recirculation system pumps the reclaimed water from the reservoir to an upper pond, out of which the reclaimed water flows, by gravity, over a series of waterfalls to an intermediate pond and eventually returns to the water reservoir.

Much of the golf course is irrigated with reclaimed water; however, potable water, from an independent pump station and distribution system, is used to hand water the greens. The fresh water is supplied to the golf course separately from the reclaimed water with appropriate backflow prevention to prevent any contamination.

The site's Reclaimed Water Management Plan (RWMP) (formerly known as an Effluent Management Plan) was last reviewed and approved by the Division on April 9, 2020. 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.

Outfall Summary

Outfall 001 – This land use application outfall is for the discharge of reclaimed water for irrigation of the golf course.

Effluent Characterization

Nevada State Network Discharge Monitoring Report (NetDMR) data, as reported from July 2019 to June 2024, was reviewed as part of this permit renewal process. The long-term average discharge flow rate for Outfall 001 was 0.77 million gallons per day (MGD). The daily maximum discharge flow rate for Outfall 001 is limited to 0.962 MGD. There were no reported exceedances for this limit.

The KRSWRF and SWRF provides tertiary treated, denitrified, and disinfected reclaimed water which meets Category B bacteriological quality per Nevada Administrative Code (NAC) 445A.276 to the Oasis Golf Club; 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 for the daily maximum fecal coliform reported was 2.79 CFU / 100 mL, with most of the reported levels being less than the detectable limit.

For the same reporting period, the average monthly maximum for total nitrogen was 16.17 mg/L.

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

Receiving water is groundwater of the State. Depth to groundwater at the site is between 325 feet to 375 feet below ground surface (bgs). No adverse effects are expected to occur because of this effluent reuse. Due to the depth to groundwater, monitoring wells are not required.

Compliance History

The facility was in substantial compliance during the July 2019 to June 2024 reporting period.

Proposed Effluent Limitations

The discharge shall be limited, sampled, and monitored by the Permittee as specified below:

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

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Coliform, fecal general ^[1]	30 Day Geometric Mean		<= 2.2 Colony Forming Units per 100ml T (CFU/100mL) ^[2]	Prior to Reuse	001	Weekly	DISCRT
Coliform, fecal general ^[1]	Daily Maximum		<= 23 Colony Forming Units per 100ml T (CFU/100mL) ^[2]	Prior to Reuse	001	Weekly	DISCRT
Flow rate	30 Day Average	<= 0.962 Million Gallons per Day (Mgal/d)		Prior to Reuse	001	Continuous	METER
Flow rate	Daily Maximum	<= 0.962 Million Gallons per Day (Mgal/d)		Prior to Reuse	001	Continuous	METER
Nitrogen, total ^[1]	Daily Maximum		M&R Milligrams per Liter (mg/L)	Prior to Reuse	001	Weekly	DISCRT

Notes (Re-use Discharge Limitations Table):

1. Sample results may be obtained from permit NS0080003 and reported by Permittee.
2. CFU or MPN/100 ml.

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 Mass Loading	M&R Pounds per Year (lb/yr) ^[2]		Prior to Reuse	001	Annual	CALCTD
Nitrogen, total ^[3]	Minimum Value		M&R Percent (%)	Prior to Reuse	001	Annual	CALCTD

Notes (Re-use Discharge Limitations Table):

1. Cumulative Annual Nitrogen Applied (pounds/acre/year). This includes all sources of nitrogen applied (e.g., fertilizer, etc.).
2. To be reported as pounds per acre per year (lbs/acre/year).
3. Report the percentage of nitrogen uptake.

Summary of Changes From Previous Permit

Facility address was changed to "552 S. Stephanie Street" from "1530 Foothills Village Drive" as verified utilizing both DragonRidge's and official Clark County Assessor's websites.

Facility coordinates were revised to show true facility location at 552 S. Street, being 36.007707, -115.0446579.

Outfall 001 coordinates were revised to show actual location of outfall, located at west side of irrigation reservoir, being N 36.0114439, W -115.0586483.

ReUse Discharge Limitations Table (Reported Monthly) for Outfall 001 changes - see below:

All of parameters in the table were updated from "Prior to Irrigation" to "Prior to Re-Use" under the Monitoring Location heading of the table.

Total Nitrogen, in the table, was changed from a "Monthly Maximum" to a "Daily Maximum".

The flow rate under previous permit's table was limited to 1.3 MGD. Upon review of the RWMP under Permit NS0080003, along with the requested flow rate under the renewal application, both the Flow Rate parameters have been revised to "0.962 MGD". The permit now requires a daily maximum and 30-day average of less than or equal to 0.962 MGD for the irrigation rate to be reported.

ReUse Discharge Limitations Table (Reported Yearly) for Outfall 001 changes - see below:

Total Nitrogen parameter was changed from "Annual Total" to "Annual Mass Loading".

A second "Total Nitrogen" measurement parameter was added with a "Minimum Value" base, M&R Percent (%) concentration, a "Prior to Irrigation" monitoring location, "Annual" measuring frequency, and a "Calctd" sample 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

Fecal coliform is required to be monitored to assess the quality of reclaimed water being applied and for the protection of human health and the environment.

The proposed permit establishes the requirement to report the total nitrogen applied to ensure 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 or conditions.

SA – Special Approvals / Conditions Table

There are no Special Approval / Condition items

Discharges From Future Outfalls/ Planned Facility Changes

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

Corrective Action Sites

There are no active Bureau of Corrective Actions (BCA) sites located within a one mile radius of the discharge location.

Wellhead Protection Program

The nearest Public Water Supply (PWS) well is located approximately four (4) miles to the northwest of the outfall. The outfall is not located within a Wellhead Protection Area, which represents an approximate 10-year capture zone of a well, or within a Drinking Water Protection Area, which is defined by a 3,000-foot radius around a PWS well.

Schedule of Compliance:

SOC – Schedule of Compliance Table

There are no Schedule of Compliance items

Deliverable Schedule:

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

Item #	Description	Interval	First Scheduled Due Date
1	Quarterly DMRs	Quarterly	4/28/2025
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. **12/27/2024**, 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 Marr**

Date: **11/19/2024**

Title: **Staff II Engineer**