



FACTSHEET
(pursuant to NAC 445A.236)

Permittee Name: PAR 3, LLC CONESTOGA GOLF CLUB

1499 FALCON RIDGE PARKWAY
MESQUITE, NV 89034

Permit Number: NS2008510

Permit Type: GROUNDWATER DISCHARGE

Designation: GROUNDWATER

New/Existing: EXISTING

Location: CONESTOGA GOLF COURSE AT ANTHEM MESQUITE, CLARK
1499 FALCON RIDGE PARKWAY, MESQUITE, NV 89034
LATITUDE: 36.84268330, LONGITUDE: -114.114883
TOWNSHIP: 13 S, RANGE: 70 E, SECTION: 1,6

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Latitude	Longitude	Receiving Water
001	GOLF COURSE	Land Application Site		36.84268330	-114.114883	GROUNDWATER
002	DUST CONTROL	Land Application Site		36.8410	-114.1120	GROUNDWATER
003	SUM OF OUTFALLS	Sum		36.8380	-114.1120	GROUNDWATER

Permit History/Description of Proposed Action

This is a renewal of an expired existing permit that has been administratively continued. The Permittee applied for renewal before expiration. The permit was originally issued on January 1, 2009 and expired on January 1, 2014. The permit was renewed on July 1, 2015 and expired on June 30, 2020. The Permittee, Par 3, LLC, has applied for a renewal to continue to use tertiary treated, denitrified, disinfected effluent from the Oasis Golf Course (OGC) that is supplied by the Mesquite Wastewater Treatment Facility (MWTF) [NS0040011]. The effluent will be used for reuse irrigation at the Conestoga Golf Club LLC (CGCAM) facility. The MWTF effluent is first delivered to the OGC where the reclaimed water is blended with Virgin River ditch water in the effluent storage pond at OGC. Once blended, it is conveyed via pump station and force main to the 40 mil PVC lined aerated effluent storage lake at CGCAM. All reuse activities are to be conducted in accordance with the Reclaimed Water Management Plan (RWMP) and terms and conditions of the permit. The quality of the effluent supplied to the CGCAM meets NAC 445A.276 reuse Category C requirements.

Facility Overview

The CGCAM facility is an 18-hole golf course, irrigated areas include: 90 acres of fairway, tees, greens, driving range turf grasses, and other surrounding landscape. Effluent irrigation is controlled remotely with an onsite weather station program which automatically controls the Rainbird WS-PRO-Sh System field satellite controllers used for irrigation. The reuse water will be applied via spray irrigation at the golf course and drip irrigation for the ornamental plant materials uses in accordance with the permit conditions and the RWMP. The reuse water will be used for onsite construction and dust control uses as well. Receiving waters are groundwater of the state underlying the reuse site. A municipal supply well several thousand feet southwest of the CGCAM shows a static groundwater level of approximately 110 feet below ground

surface. There is a thick clay confining layer above the water table which may cause artesian pressures.

Outfall Summary

The irrigated areas consist of the golf course fairways, tees, greens, and driving range for the CGCAM located at 1499 Falcon Ridge Parkway, Mesquite, NV 89034. The reuse water area is approximately 90 acres in size with a discharge of 800,000 gallons per day.

Outfall 001 - GOLF COURSE - Discharge to groundwater underlying the golf course fairways, tees, greens, other surrounding landscaping and driving range, external outfall.

Outfall 002 - DUST CONTROL - Discharge to groundwater underlying onsite construction areas for dust control, external outfall.

Outfall 003 - SUM - Sum of Outfall 001 + Outfall 002. Sum of discharges to groundwater of the state, external outfall.

Effluent Characterization

The MWTF will be providing tertiary treated, denitrified, disinfected reuse water to the CGCAM that meets NAC 445A.276 reuse Category C requirements.

The following data was taken from the 2016 through the 2022 discharge monitoring reports for the MWTF's permit NS0040011 for reclaimed water:

Total nitrogen average: 3.53 mg/L; Maximum: 32.4 mg/L; Minimum: .1 mg/L;

Fecal Coliform average: 6.6 MPN/100 mL; Maximum: 166 MPN/100 mL; Minimum: 0.5 MPN/ 100 mL

Pollutants of Concern

Total Coliform and Nitrogen concentrations are managed and monitored by the Mesquite Wastewater Treatment Facility (MWTF) under effluent limitations defined in Permit NS0040011. The treated effluent meets reuse Category C requirements.

Receiving Water

The receiving water is groundwater of the State underlying the reuse site. A municipal supply well several thousand feet southwest of the CGCAM shows a static groundwater level of approximately 110 feet below ground surface. There is a thick clay confining layer above the water table which may cause artesian pressures. No adverse effects are expected to occur as a result of this effluent reuse.

Compliance History

The facility was not considered to be in substantial compliance during the 2018 to 2023 reporting period. Review of DMR data indicated thirteen (13) daily maximum exceedances for Nitrogen, eight (8) 30-day average exceedances for Nitrogen, seventeen (17) daily maximum exceedances for total Coliform and twenty-two (22) 30-day average exceedances for total Coliform. In 2022, the Mesquite WRF exceeded 6 out of 12 monitoring periods for Total Nitrogen (50% compliance rate) and 7 out of 12 monitoring periods for Total Coliform (42% compliance rate). While diagnosing the exceedances the treatment plant discovered a malfunctioning Oxidation-reduction potential meter providing false oxygen data, increased UV disinfection (set to highest rate) and changed the sampling point to the Jensen Park booster pump station (before point of use). These actions have returned the Mesquite WTF into compliance with their permit.

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 (Golf Course) To Be Reported Monthly^[1]

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Coliform, fecal, colony forming units	Daily Maximum		<= 240 Most Probable Number per 100ml T (MPN/100mL) ^[2]	Prior to Reuse	001	Monthly	DISCRT
Coliform, fecal general	Monthly Geometric Mean		<= 23 Colony Forming Units per 100ml T (CFU/100mL) ^[2]	Prior to Reuse	001	Monthly	DISCRT
Nitrogen, total	Daily Maximum		<= 10 Milligrams per Liter (mg/L)	Prior to Reuse	001	Monthly	DISCRT

Notes (Re-use Discharge Limitations Table):

1. Sample results may be obtained from MWTF Permit NS0040011 and reported by the Permittee.
2. Report either CFU / 100 mL or MPN / 100 mL

Re-use Discharge Limitations Table for Sample Location 002 (Dust Control) To Be Reported Monthly^[1]

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Coliform, fecal, colony forming units	Daily Maximum		<= 240 Most Probable Number per 100ml T (MPN/100mL) ^[2]	Prior to Reuse	002	Monthly	DISCRT
Coliform, fecal general	Monthly Geometric Mean		<= 23 Colony Forming Units per 100ml T (CFU/100mL) ^[2]	Prior to Reuse	002	Monthly	DISCRT
Nitrogen, total	Daily Maximum		<= 10 Milligrams per Liter (mg/L)	Prior to Reuse	002	Monthly	DISCRT

Notes (Re-use Discharge Limitations Table):

1. Sample results may be obtained from MWTF Permit NS0040011 and reported by the Permittee.
2. Report either CFU / 100 mL or MPN / 100 mL

Re-use Discharge Limitations Table for Sample Location 003 (Sum Of Outfalls) To Be Reported Monthly

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Flow rate	Daily Maximum	< 1 Million Gallons per Day (Mgal/d)		Prior to Reuse	003	Continuous	METER ^[1]
Flow rate	30 Day Average	M&R Million Gallons per Day (Mgal/d)		Prior to Reuse	003	Continuous	METER ^[1]

Notes (Re-use Discharge Limitations Table):

1. Report sum of Outfall 001 + Outfall 002.

Re-use Discharge Limitations Table for Sample Location 003 (Sum Of Outfalls) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Flow rate	Daily Maximum	< 1 Million Gallons per Day (Mgal/d)		Prior to Reuse	003	Continuous	METER ^[1]
Flow rate	30 Day Average	M&R Million Gallons per Day (Mgal/d)		Prior to Reuse	003	Continuous	METER ^[1]
Nitrogen, total	Annual Total	M&R Pounds per Year (lb/yr)		Prior to Reuse	003	Annual	CALCTD

Notes (Re-use Discharge Limitations Table):

1. Report sum of Outfall 001 + Outfall 002.

Summary of Changes From Previous Permit

The Permittee name has changed to Par 3, LLC.

The previous permit authorized the discharge of reuse water that met NAC 445A.276 reuse Category A requirements. Due to problems with the MWTF [NS0040011] the new permit will authorize the discharge of reuse water that meets NAC 445A.276 reuse Category C requirements.

Coliform, total general discharge limitations have been changed from M&R to Coliform, colony forming units <= 240 MPN/100mL for daily maximum and Coliform, fecal general <= 23 CFU/100mL for monthly geometric mean. Also, the daily maximum discharge limitation for total Nitrogen has been changed from M&R to a daily maximum <= 10 mg/L. These changes have been made in order to reflect the monitoring requirements for MWTF.

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

Required parameters are monitored to ensure effluent reuse requirements are maintained (NAC 445A.275, 445A.276) and groundwaters of the State are protected. Total Coliform and Total Nitrogen monitoring is required to evaluate the quality of the reclaimed water that is applied, and for protection of human health and the environment.

Anti-backsliding

Effluent limitations have not been reduced and remain the same as the previous permit.

Antidegradation

The State's antidegradation policy has a requirement to maintain higher quality (RMHQ) standards of the receiving water body and, at a minimum, meet the most restrictive standards established per the designated beneficial use criteria. At this time there are currently no specific water quality standards that have been formally adopted by the State for groundwater. However, available data does not currently indicate any potential for degradation of groundwater from the effluent discharged within the compliance limits of the proposed permit.

Special Conditions

The Permittee shall be in substantial compliance upon issuance of the permit.

SA – Special Approvals / Conditions Table

Item #	Description
1	The Permittee is required to continue to submit their Discharge Monitoring Reports (DMRs) through the Bureau of Water Pollution Control's Nevada NetDMR system.

Discharges From Future Outfalls/ Planned Facility Changes

There are no proposed future outfalls/planned facility changes at this time.

Corrective Action Sites

There are no Bureau of Corrective Actions remediation sites located within a one-mile radius from the center-point of the property.

Wellhead Protection Program

The closest Public Water System (PWS) well is located approximately 2.0 miles southeast of the project site. The project site is not located within a Drinking Water Protection Area, which is defined by a 3,000-foot radius around a PWS well. Furthermore, there are no Wellhead Protection Areas, which represents an approximate 10-year capture zone of a well, in the vicinity of the project site. The discharge is not anticipated to affect any PWSs due to the distances of the PWS wells.

Schedule of Compliance:

SOC – Schedule of Compliance Table

Item #	Description	Due Date
1	The Permittee shall submit two (2) copies (one electronic and one hard copy) of an updated Reclaimed Water Management Plan (RWMP), previously referred to as the Effluent Management Plan (EMP), for review and approval by the Division. The RWMP shall be prepared by a Nevada Registered Professional Engineer or other qualified person in accordance with WTS-1B. ^[1]	10/1/2024

Notes (Schedule of Compliance Table):

1. If the RWMP 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	Quarterly DMR	Quarterly	10/28/2024
2	Annual Report	Annually	1/28/2025

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. **6/11/2024**, 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: **Aaron Park**

Date: **5/9/2024**

Title: **Staff I, Associate Engineer**