



FACTSHEET
(pursuant to NAC 445A.236)

Permittee Name: LAS VEGAS GOLF - ANGEL PARK GOLF CLUB
241 RAMPART BOULEVARD
LAS VEGAS, NV - 89145

Permit Number: NS0099003

Location: ANGEL PARK GOLF CLUB, CLARK
241 S. RAMPART BOULEVARD, LAS VEGAS, NV - 89145
LATITUDE: 36.174722, LONGITUDE: -115.286944
TOWNSHIP: 20 S, RANGE: 60 E, SECTION: 32

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Outfall City	Outfall State	Outfall Zip	Outfall County	Latitude	Longitude	Receiving Water
001	GOLF COURSE	Land Application Site		LAS VEGAS	NV	89415	CLARK	36.174722	-115.286944	GROUNDWATER

General:

The Permittee, Angel Park Golf Club, has applied for renewal of the reuse irrigation discharge permit. The Angel Park Golf Club, two 18-hole courses, a 12 hole par 3 course and a 9 hole natural grass putting course, receive tertiary treated and disinfected effluent (reclaimed water) from the Durango Hills Water Resource Center (DHWRC – Permit NS0098005) and uses it to irrigate turf grass and landscaped areas. The DHWRC reclaimed (reuse) water is blended with potable water to provide the course with the adequate volume of water required. The relative percentages of potable and reclaimed water vary with the seasonal irrigation demand.

Discharge Characteristics:

Effluent supplied by DHWRC is tertiary treated and disinfected to meet Category A reuse water standards; in accordance with NAC 445A.276, A buffer zone and control of public access are not required.

Receiving Water:

Groundwater depth in the vicinity of the course is approximately 500 feet below ground surface. Groundwater flow direction is reported to be due east. Due to the depth to groundwater, monitoring wells at the courses are not required.

Summary of Changes From Previous Permit:

Due to the new naming conventions at the Nevada Division of Environmental Protection (NDEP), Bureau of Water Pollution Control, the permit number has been changed from NEV99003 to NS0099003 . This change does not reflect a change in the type of permit being issued.

The Fecal Coliform limit is being changed to monitor and report, as DHWRC is responsible for meeting water quality limits per discharge permit NS0098005.

The Bureau of Water Pollution Control's (BWPC) Nevada NetDMR system is a web based sites that allow

for electronic submission of Discharge Monitoring Reports. Nevada NetDMR enables permittee the ability to enter and electronically submit DMR data. By using Nevada NetDMR permittees will save time, see a reduction in paperwork burden, and data will automatically error-check and validate the information prior to submission. The system also allows for electronic submittal of attachments and supplemental documentation and provides instant confirmation of submission.

Proposed Effluent Limitations:

The permit limits and monitoring requirements have been established to prevent degradation of the receiving water.

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
Coliform, total general	Monthly Maximum		M&R Colony Forming Units per 100ml T (CFU/100mL) ^[1]	Prior to Reuse	001	Weekly	DISCRT
Coliform, total general	Monthly Average		M&R Colony Forming Units per 100ml T (CFU/100mL) ^[1]	Prior to Reuse	001	Weekly	DISCRT
Flow rate	Daily Maximum	<= 3.41 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

Notes (Re-use Discharge Limitations Table):

1. Sample results may be obtained from NS0098005 and reported by the Permittee.

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

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Nitrogen, total	Annual Maximum	<= 475 Pounds per Year (lb/yr) ^[1]		Prior to Reuse ^[2]	001	Annual	CALCTD
Nitrogen, total	Annual Maximum	<= 195 Pounds per Year (lb/yr) ^[1]		See Footnote ^[3]	001	Annual	CALCTD

Notes (Re-use Discharge Limitations Table):

- 1. Report as lbs/acre/yr.
- 2. Fairways/Roughs/Tees
- 3. Greens

Rationale for Permit Requirements:

Reclaimed water monitoring is required to assess the level of treatment being provided by the DHWRC, to assess the quality of blended water delivered to the courses by the LVVWD, to assess the management of recycled water usage, and to protect the local groundwater quality. Total Coliform is required for monitoring the quality of reclaimed water being applied, and for the protection of human health and the environment.

Fecal Coliform:

Permit limitations for total coliform have been set to monitor and report since effluent quality is limited by permit NS0098005 for DHWRC. The concentration of total coliform in treated effluent discharged for reuse is restricted in accordance with NAC 445A.276.

Special Conditions:

Substantial compliance with the current permit is a condition of permit renewal.

SA – Special Approvals / Conditions Table

There are no Special Approval / Condition items

Flow:

The permitted 30-day average flow is monitor and report, and the maximum flow is 3.41 MGD, the maximum anticipated amount during the summer months. The annual average usage is approximately 1.75 MGD per month, due to lower usage during the cooler months.

Corrective Action Sites:

There are no Bureau of Corrective Actions remediation sites located within a one-mile radius of the application area.

Wellhead Protection Program:

The proposed reuse application areas are within 6,000-foot radius of Drinking Water Protection Areas for several public water supply wells located nearby. Discharges in accordance with the proposed permit are not anticipated to negatively impact these wells.

Schedule of Compliance:

SOC – Schedule of Compliance Table

Item #	Description	Due Date
1	The Permittee shall submit to the Division two (2) copies of an updated Effluent Management Plan (EMP) prepared and stamped by a Nevada Registered Professional Engineer.	8/1/2016
2	Within 1 year of permit issuance, all DMRs shall be submitted electronically through the Nevada NetDMR website. https://netdmr.ndep.nv.gov/netdmr/public/home.htm	8/28/2017

Deliverable Schedule:

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

Item #	Description	Interval	First Scheduled Due Date
1	Quarterly DMRs	Quarterly	7/28/2016
2	Annual Report	Annually	1/28/2017

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 **Las Vegas Review 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. **5/30/2016**, 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: **Nicholas Brothers, P.E.**

Date: **4/27/2016**

Title: **Professional Engineer**