



STATE OF NEVADA

Department of Conservation & Natural Resources

DIVISION OF ENVIRONMENTAL PROTECTION

Brian Sandoval, Governor

Leo M. Drozdoff, P.E., Director

Colleen Cripps, Ph.D., Administrator

FACT SHEET

(Pursuant to NAC 445A.236)

PERMITTEE NAME: Dayton Valley Golf Course, LLC.
101 Palmer Drive
Dayton, Nevada 89403

PERMIT NUMBER: NS2001501

LOCATION: Dayton Valley Golf Course and
Legado Planned Unit Development

101 Palmer Drive
Dayton, Lyon County, Nevada 89403

COORDINATES: Latitude: 39.250176° ; Longitude: -119.544652°
T16N, R22E, Sections 17, 18, 19, MDB&M

CORRECTIVE ACTIONS SITES: There are no Bureau of Corrective Actions remediation sites located within one (1) mile of this reuse site.

WELLHEAD PROTECTION: The reuse site is within the 2-year, 5-year, and 10-year wellhead capture zones around three (3) public water supply wells operated by Lyon County Utilities. The reuse site is within the 3000 ft. buffer zones around the three wells, which are listed as highly vulnerable to inorganic compounds and radioactive nucleotides. No adverse effects to the water supply wells are expected as a result of discharges in accordance with the permit.

GENERAL: Lyon County Utilities' Rolling A Wastewater Reclamation Facility (RAWWRf) supplies Category B (NAC 445A.276) treated, denitrified, disinfected effluent for reuse irrigation at the Dayton Valley Golf Course and the Legado Planned Unit Development common areas, park, and streetscapes. The treated effluent is discharged into pond 1 and pond 14 and redistributed in a series of 12 other lined ponds. Irrigation pond 3 receives groundwater and discharges via gravity into effluent pumping pond 4 to provide a blend to supplement the irrigation reuse water supply. Pond 3 may also be used to store effluent. The water is distributed to the irrigation system via the pump station at pond 4. Irrigation is via spray irrigation of turf grass and drip irrigation of trees and plants on the property (approximately 310 acres). All reuse activities are conducted in accordance with the approved effluent management plan (EMP) and the terms and conditions of the permit.

RECEIVING WATER CHARACTERISTICS: Groundwater in the area is potable. Depth to groundwater in the area is approximately 75 feet below ground surface. The fourteen effluent storage lakes are PVC lined and are used for winter effluent storage. Effluent is denitrified, and no adverse effects are expected to occur as a result of effluent storage and reuse.

PROPOSED LIMITATIONS AND MONITORING REQUIREMENTS: Effluent water samples shall be monitored as specified below (Table 1).

Table 1. Discharge Limitations and Monitoring Requirements

Discharge Limitations				Monitoring Requirements	
Parameter	Base	Quantity	Concentration	Measurement Frequency	Sample Type ¹
Flow	30-Day Average	2.7 MGD	----	Continuous	Flow Meter
Flow	Daily Maximum	4.10 MGD	----	Continuous	Flow Meter
Fecal Coliform	30-Day Average	----	2.2 CFU or MPN/100ml	Weekly	Discrete
Fecal Coliform	Daily Maximum	----	23 CFU or MPN/100ml	Weekly	Discrete
Total Nitrogen	30-Day Average	----	M&R (mg/l)	Weekly	Discrete
Total Nitrogen	Daily Maximum	----	M&R (mg/l)	Weekly	Discrete

1. Sample results may be obtained from RAWWRP (permit NS2000500) and reported by Permittee.

CFU = colony forming units
 M&R = monitor and report
 MGD = million gallons per day
 mg/l = milligrams/liter
 ml = milliliter
 MPN = most probable number

FLOW: The applicant has applied for 2.70 MGD 30-day average flow and 4.10 MGD daily maximum flow for seasonal discharge of reuse water on the collective properties under effluent irrigation. The reuse water will be combined with pumped groundwater in pond 3 to meet actual irrigation demands. The permit requires the reuse water quantity to be monitored and reported. Irrigation is seasonal, from March through November. Because the annual application volume is addressed in the EMP, to which the Permittee must adhere, it has been removed from the discharge limitations table.

DISCHARGE FLOW AND CHARACTERISTICS: From April 2007 through March 2012, the Permittee did not exceed flow limitations. Fecal coliform did exceed the 30-day average on multiple occasions as a result of malfunctions at the treatment facility from which the Permittee receives effluent.

SCHEDULE OF COMPLIANCE: The Permittee shall implement and comply with the provisions of the schedule of compliance after approval by the Administrator, including in said implementation and compliance any additions or modifications which the Administrator may make in approving the schedule of compliance. The Permittee shall achieve compliance with the effluent limitations upon issuance of the permit.

Table 2. Schedule of Compliance

Item #	Description	Due Date
1	An updated EMP, prepared and stamped by a Nevada licensed professional engineer, shall be submitted to the Division for approval. If no changes have been made to the EMP since the last submittal, a letter shall be submitted stating so.	90 Days from Permit Issue Date

PERMIT REQUIREMENTS AND RATIONALE: Required parameters are monitored to ensure effluent reuse requirements are maintained per NAC 445A.275 and 445A.276 and groundwaters of the State are protected.

OPERATION REQUIREMENTS: The Permittee shall operate the facility in compliance with permit provisions and requirements and in accordance with the Division-approved EMP. The EMP shall contain information required to comply with this permit. The storage, distribution, and reclaimed water irrigation practices for this facility shall be documented in the EMP. It is recommended that the Permittee utilize “WTS-1B: General Criteria for Preparing an Effluent Management Plan” as a guidance to prepare the EMP.

CHANGES TO PERMIT ID: Due to new permit naming conventions at NDEP, Bureau of Water Pollution Control, the permit ID has been changed from NEV2001501 to NS2001501. This change does not reflect a change in the type of permit being issued. NEV and NS permits are for groundwater discharges to the State of Nevada. These are not to be confused with “NV” permits which are reserved for NPDES Permitting.

PROPOSED DETERMINATION: The Division has made the tentative determination to reissue the proposed permit for a period of five (5) years.

PROCEDURES FOR PUBLIC COMMENT: The Notice of the Division’s intent to issue a discharge permit to the applicant, subject to the conditions contained within the permit, is being sent to the **Reno Gazette Journal** and the **Dayton Courier** 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 for a period of thirty (30) days following the date of publication of the public notice in the newspaper. The comment period can be extended at the discretion of the Administrator. The deadline date and time by which all comments are to be submitted (via postmarked mail or time-stamped faxes, e-mails, or hand-delivered items) to the Division is December 21, 2012 by 5:00 P.M.

A public hearing on the proposed determination can be requested by the applicant, any affected State, any affected interstate agency, the Regional Administrator, 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 determines 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.

Prepared by: Peter Lassaline
November 2012