



STATE OF NEVADA

Department of Conservation & Natural Resources

Brian Sandoval, Governor

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DIVISION OF ENVIRONMENTAL PROTECTION

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NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

FACT SHEET

(pursuant to NAC 445A.236)

Permittee Name: Canyon Gate, Inc.
Canyon Gate Golf Course
2001 Canyon Gate Drive
Las Vegas, Nevada 89117

Permit Number: NEV99005

Location: Canyon Gate Golf Course
2001 Canyon Gate Drive
Las Vegas, Clark County, Nevada
Latitude: 36° 09' 08" N, Longitude: 115° 17' 16" W
T21S, R60E, Section 5

General: The Canyon Gate Golf Course, an 18-hole golf course occupying approximately 150 acres, receives treated effluent (reclaimed water) from the Durango Hills (formerly Northwest) Water Resource Center (DHWRC), Permit # NEV98005, for irrigation of turf and landscaped areas. DHWRC produces tertiary treated, disinfected effluent with an average (30-day average) total Nitrogen content of 15 mg/L. The DHWRC reclaimed water is blended with potable water throughout the year with blends ranging from 0% to 100% potable water (2010) to provide the course with the volume of water required.

Flow: The Permittee has requested a 30-day average flow of 1.81 MGD, which is the maximum anticipated amount for the hot summer months. Actual irrigation usage for 2010 was 0.50 MGD (annual 30-day average) with a maximum 30-day average of 1.14 MGD (June 2007). The facility has one reservoir on site that is fed by the reclaimed water supply line and used for irrigation. There are two additional decorative lakes at this course that are also fed from the reclaimed water system.

Receiving Water Characteristics: Groundwater in the vicinity of the course is estimated to be at approximately 700 feet below ground surface. Groundwater flow direction is reported to be in a southeasterly direction. Due to the depth to groundwater, monitoring wells at the golf course are not required.

Public Water Supply: There are no public supply wells within one mile of this facility.

Corrective Action Sites: There are no Bureau of Corrective Actions remediation sites within a one-mile radius of the facility.

Well Head Protection Area: The facility is located outside of the 6,000 feet Drinking Water Protection Area (DWPA) and not within a delineated wellhead capture zone for any public supply well.

Discharge Limitations: The DHWRC provides the golf course with a high quality reclaimed water product that conforms to Category A requirements. The coliform requirement is set at 2.2 mpn/100 ml Total Coliform, 30-day average. Therefore, in accordance with NAC 445A.277, a buffer zone and control of public access are not required.

TABLE I. 1: Discharge Limitations

<u>PARAMETERS</u>	<u>EFFLUENT DISCHARGE LIMITATIONS</u>		<u>MONITORING REQUIREMENTS</u>	
	30 Day Average	Daily Maximum	Measurement Frequency	Sample Type
Flow	1.81 MGD	M & R	Continuous	Flow meter
Total Coliform	2.2 mpn/100 ml	23 mpn/100 ml	Weekly	Discrete
Chlorine Residual	Monitor and Report		Weekly	Discrete
Total Nitrogen as N	Monitor and Report		Monthly	Calculate

Samples taken in compliance with the monitoring requirements specified in Table I.1 shall be collected prior to reclaimed water reuse. The quality of the product used by the Permittee may be reported as calculated values based on the blend of reclaimed water and potable water. Monitoring requirements may be satisfied by data collected by the Durango Hills Water Resource Center and the Las Vegas Valley Water District. Discharge Monitoring Reports shall be submitted by the Permittee. Copies of the backup data or water quality calculation summaries are to be maintained at the reuse site for inspection by the Division upon request.

Irrigation must be performed under the conditions outlined in the approved Effluent Management Plan, as well as within the Permittee’s approved Nitrogen uptake rate.

Schedule of Compliance: The Permittee shall implement and comply with the provisions of the following 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.

- a. The Permittee shall achieve compliance with the discharge limitations upon issuance of the permit.

- b. **Within 45 days of permit issuance (MM DD, 2011)** the Permittee shall submit an updated Effluent Management Plan (EMP) to the Division for review and approval.
- c. **Within 45 days of permit issuance (MM DD, 2011)** The Permittee shall submit current cross-connection control documentation required by part **I.D.13** of the permit and annually thereafter, due with the fourth quarter report. The cross-connection control inspection shall be conducted by an American Water Works Association certified cross connection control specialist.

Rationale for Permit Requirements: Reclaimed water disinfection monitoring is required to document the level of total Coliform treatment being provided by the DHWRC, to assess the management of reclaimed water usage, and to protect the local groundwater quality. Total coliform and nitrogen species are required for monitoring the quality of recycled water being applied, and for protection of human health and the environment.

Procedures for Public Comment: The Notice of the Division's intent to issue (renew) the permit authorizing the facility to discharge to the 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 also 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 written comments are to be postmarked (via mail) or transmitted to the Division via facsimile or e-mail is **November 25th, 2011**.

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.

Determination: The Division has made the determination to renew the proposed permit for a five-year period.