

NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

FACT SHEET

(pursuant to NAC 445A.236)

Permittee Name: PGA Tour Properties, TPC Summerlin
1750 N. Rampart Blvd
Las Vegas, NV 89128

Facility: TPC Summerlin Golf Course
1750 N. Rampart Blvd
Las Vegas, NV 89128

Permit Number: NEV99001

Location: Northwest Area of Las Vegas, Clark County, Nevada

Latitude: 36° 12' 55" N
Longitude: 115° 18' 08" W

Township 20 South, Range 60 East, Section 18

Flow: 2.32 MGD. (30-Day Average)

General:

PGA Tour Properties, TPC Summerlin operates the TPC Summerlin Golf Course, located at 1750 N. Rampart Blvd in the Northwest area of Las Vegas, Clark County, Nevada. This facility has one 18-hole course, covering approximately 184 acres. The facility uses one PVC-lined, aerated reservoir fed by the recycled water supply line for storage of irrigation water. There are also three PVC-lined decorative water features utilizing reclaimed water at this facility. The decorative water features are aerated, and are maintained as wildlife habitat.

The TPC Summerlin Golf Course receives tertiary treated, nitrified, disinfected effluent from the Durango Hills Water Resource Center (DHWRC) wastewater treatment facility (WWTF) for irrigation of turf and landscaped areas. The DHWRC recycled water is blended with potable water to provide the course with the volume of water required. The relative percentages of potable and recycled water will vary with the seasonal irrigation demand.

Flow:

The permitted 30-day average flow is 2.32 MGD blended effluent, which is the maximum anticipated amount for the hot summer months. The annual average usage will be approximately 1.09 MGD per month, due to lower usage in the cooler months.

Receiving Water Characteristics:

Groundwater in the vicinity of the course is estimated to be at 500 to 700 feet below ground surface, as reported in the Effluent Management Plan prepared by Greeley and Hansen, January 1999, and by measurements taken at the Las Vegas Valley Water District Well #093. Groundwater flow direction is reported to be southeast. There are no monitoring wells required at this facility due to the depth to groundwater.

Proposed Effluent Limitations and Monitoring Requirements

The discharge from the facility shall be monitored and limited by the following:

TABLE I. Discharge Limitations

<u>PARAMETERS</u>	<u>EFFLUENT DISCHARGE LIMITATIONS</u>		<u>MONITORING REQUIREMENTS</u>	
	30 Day Ave.	Daily Max.	Measurement Frequency	Sample Type
Flow (MGD)	2.32	---	Continuous	Flow meter
Total Coliform (CFU or MPN/100 ml) ⁽²⁾	2.2	23	Weekly	Discrete
Total Nitrogen as N ⁽¹⁾ (mg/l)	Monitor and Report		Monthly	Calculate
Total Kjeldahl Nitrogen as N (mg/l)	Monitor and Report		Monthly	Composite
Total Oxidized Nitrogen as N (Nitrate + Nitrite) (pounds)	Monitor and Report		Monthly	Composite
Ammonia as N (mg/l)	Monitor and Report		Monthly	Composite
Total Nitrogen Applied (pounds/acre/calendar year)	475 ⁽³⁾		Annually ⁽⁴⁾	Calculate

- (1) Total Nitrogen as N can be reported as the sum of Total Oxidized Nitrogen and Total Kjeldahl Nitrogen
- (2) CFU = Colony Forming Unit, MPN = Most Probable Number
- (3) Bermuda Grass Nitrogen Uptake average value of 475 lb/acre/year used in determining nutrient balance for turf areas (per Effluent Management Plan, January, 1999).
- (4) Submitted in the 4th quarter Discharge Monitoring Report (DMR).

Samples taken in compliance with the monitoring requirements specified in Table I are to be collected prior to effluent reuse. The quality of the product used by the permittee may be reported as calculated values based on the blend of treated effluent, potable water, and well water. Monitoring requirements may be satisfied by data collected by the DHWRC and the Las Vegas Valley Water District. 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. Discharge Monitoring Reports are to be submitted by the Permittee to NDEP at the following address.

Nevada Division of Environmental Protection
 Bureau of Water Pollution Control
 Diana Silsby, Compliance Coordinator

333 West Nye Lane, Room 129
Carson City, NV 89706-0851

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

- a. The permittee shall achieve compliance with the effluent limitations upon issuance of the permit.
- b. The Permittee, or its representative, shall adequately address any and all updates to the EMP as a revision to the EMP. The Permittee shall not reuse treated effluent prior to having an approved Final EMP per Nevada Administrative Code (NAC) 445A.275
- c. The Permittee shall provide the Division with the documentation updates that notification required in Part I.B.13 has been complied with prior to continued use of treated effluent.
- d. All compliance deliverables shall be submitted both the Compliance Coordinator listed above and to

Mr. Nadir Sous, Supervisor
Nevada Division of Environmental Protection
Bureau of Water Pollution Control
1771 E. Flamingo Road, Suite 121-A
Las Vegas, NV 89119

Procedures for Public Comment:

The Notice of the Division's intent to issue a 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 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 30 days following the date of the public notice. The comment period can be extended at the discretion of the Administrator. **All comments must be received by NDEP by 5:00 pm, December 1, 2004.**

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 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

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Commission pursuant to NRS 445A.605.

Proposed Determination

The Division has made the tentative determination to reissue the permit for a period of five (5) years, subject to effluent and monitoring limitations.

Rationale for Permit Requirements

The limitations and monitoring requirements are intended to provide for appropriate reuse of treated effluent, to minimize the possibility of adverse impact to groundwaters of the State, and to alert those persons who might have contact with treated effluent to its presence at the facility.

Prepared by: Janine Hartley
 October 2004