



## FACTSHEET (pursuant to NAC 445A.236)

**Permittee Name:** RHODES & TUSCANY CLUB MANAGEMENT, LLC  
C/O ADDISON LAW, 5400 LBJ FREEWAY, SUITE 1325  
DALLAS, TX - 75240

**Permit Number:** NS2001503

**Location:** TUSCANY GOLF CLUB, CLARK  
901 OLIVIA PARKWAY, HENDERSON, NV - 89015  
LATITUDE: 36.07867710, LONGITUDE: -114.967027  
TOWNSHIP: T21S, RANGE: R63E, SECTION: S32

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		HENDERSON	NV	89015	CLARK	36.07867710	-114.967027	GROUNDWATER
002	MW1			Monitoring Well		89015	CLARK	36.07867710	-114.967027	GROUNDWATER
003	MW2			Monitoring Well		89015	CLARK	36.07867710	-114.967027	GROUNDWATER
004	MW3			Monitoring Well		89015	CLARK	36.07867710	-114.967027	GROUNDWATER
005	MW4			Monitoring Well		89015	CLARK	36.07867710	-114.967027	GROUNDWATER

**General:**

The Permittee, Rhodes & Tuscany Club Management, LLC, has applied for the renewal of Permit NS2001503 for the Tuscany Golf Club in Henderson, Nevada. The facility is an 18-hole golf course located, south of the Las Vegas Wash and east of Henderson, in Section 32 in Township 21 South, Range 63 East, Mt. Diablo Base and Meridian. The applicant reuses tertiary treated, partially denitrified, and disinfected effluent to irrigate the turf grasses and other vegetation at the Tuscany Golf Club. The treated effluent is supplied by the City of Henderson's Kurt R. Segler Water Reclamation Facility (KRSWRF). All reuse irrigation shall be conducted in accordance with the Tuscany Golf Club's approved Effluent Management Plan (EMP) and terms and conditions of the permit.

**Discharge Characteristics:**

Treated effluent from KRSWRF. Discharged effluent meets reuse category B requirements. The treated effluent had one exceedance, within the last five years, of the permitted daily maximum fecal coliform concentration limit of 23/100 mL MPN. The fecal coliform concentration was 32.7/100 mL MPN in the sample collected on May 3, 2010. The reported exceedance was due to a lapse in sampling protocol; and it was determined that the sample was not representative of the treated effluent delivered to the Tuscany Golf Club.

**Receiving Water:**

Groundwaters of the State of Nevada.

Groundwater in the area varies with elevation, from approximately 5 feet to 58 feet below ground surface (bgs), generally exhibiting a north to northeast flow direction. There are no known productive, domestic wells

in the subject reuse area; drinking water is provided by the City of Henderson municipal water system. The Las Vegas Wash is located north of the Tuscany Golf Club. A stormwater channel traverses the eastern and northern margins of the property and discharges into the Wash.

No runoff of effluent is permitted. The effluent storage lakes have high-density polyethylene (HDPE) liners. No adverse effects are expected to occur as a result of effluent reuse. The application rate and quantities of treated effluent shall be conducted in accordance with the approved EMP. Over application of irrigation water or runoff from irrigation activities is prohibited. An underdrain system was installed, prior to the golf course and community development, to convey any shallow groundwater that occurs in certain areas of the development. The underdrain system discharges to a leach field located in an area of clay soils at the northwestern portion of the golf course property. Visual monitoring of this leach field is required; no discharge to the surface from the leach field is permitted.

#### **Summary of Changes From Previous Permit:**

Due to a new permit naming convention at NDEP, Bureau of Water Pollution Control, the permit ID has been changed from NEV2001503 to NS2001503. 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.

In order to maintain consistency with current NDEP policy and requirements of similar reuse facilities, the following changes to this permit have been made from the previous permit:

1. The requirement to monitor the annual application rate of the effluent has been removed;
2. The requirement to monitor the annual application volume of the effluent has been removed;
3. The discharge limitation for the concentration of fecal coliform has been removed and replaced with M&R;
4. The requirement to monitor the concentration of total dissolved solids (TDS) has been removed;
5. The total nitrogen concentration limits per Part I.A.3 have been removed;
6. The requirement to monitor the concentration of nitrate as nitrogen has been removed;
7. The requirement to monitor the concentration of total phosphorus has been removed;
8. The requirement to monitor the concentration of perchlorate has been removed; and
9. The requirement to monitor depth to groundwater at infiltration groundwater wells has been removed.

**Groundwater Monitoring Wells Table for Sample Location 002 (Mw1) To Be Reported Monthly**

Parameter	Base	Discharge Limitations		Monitoring Requirements			
		Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Nitrogen, total	Value		M&R Milligrams per Liter (mg/L)	Groundwater	002	Monthly	DISCRT
Water Elevation <sup>[1]</sup>	Value	M&R Feet (ft)		Groundwater	002	Monthly	DISCRT
Depth to water level ft below landsurface <sup>[2]</sup>	Value	M&R Feet (ft)		Groundwater	002	Monthly	DISCRT

Notes (Groundwater Monitoring Wells Table):

1. Groundwater level relative to mean sea level.
2. Depth to groundwater (static water level), ft.

**Groundwater Monitoring Wells Table for Sample Location 003 (Mw2) To Be Reported Monthly**

Parameter	Base	Discharge Limitations		Monitoring Requirements			
		Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Nitrogen, total	Value		M&R Milligrams per Liter (mg/L)	Groundwater	003	Monthly	DISCRT
Water Elevation <sup>[1]</sup>	Value	M&R Feet (ft)		Groundwater	003	Monthly	DISCRT
Depth to water level ft below landsurface <sup>[2]</sup>	Value	M&R Feet (ft)		Groundwater	003	Monthly	DISCRT

Notes (Groundwater Monitoring Wells Table):

1. Groundwater level relative to mean sea level.
2. Depth to groundwater (static water level), ft.

**Groundwater Monitoring Wells Table for Sample Location 004 (Mw3) To Be Reported Monthly**

Parameter	Base	Discharge Limitations		Monitoring Requirements			
		Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Nitrogen, total	Value		M&R Milligrams per Liter (mg/L)	Groundwater	004	Monthly	DISCRT
Water Elevation <sup>[1]</sup>	Value	M&R Feet (ft)		Groundwater	004	Monthly	DISCRT
Depth to water level ft below landsurface <sup>[2]</sup>	Value	M&R Feet (ft)		Groundwater	004	Monthly	DISCRT

Notes (Groundwater Monitoring Wells Table):

1. Groundwater level relative to mean sea level.
2. Depth to groundwater (static water level), ft.

**Groundwater Monitoring Wells Table for Sample Location 005 (Mw4) To Be Reported Monthly**

Parameter	Base	Discharge Limitations		Monitoring Requirements			
		Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Nitrogen, total	Value		M&R Milligrams per Liter (mg/L)	Groundwater	005	Monthly	DISCRT
Water Elevation <sup>[1]</sup>	Value	M&R Feet (ft)		Groundwater	005	Monthly	DISCRT
Depth to water level ft below landsurface <sup>[2]</sup>	Value	M&R Feet (ft)		Groundwater	005	Monthly	DISCRT

Notes (Groundwater Monitoring Wells Table):

1. Groundwater level relative to mean sea level.
2. Depth to groundwater (static water level), ft.

### Re-use Discharge Limitations Table for Sample Location 001 (Golf Course) To Be Reported Monthly

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Coliform, fecal general <sup>[1]</sup>	30 Day Geometric Mean		M&R Most Probable Number per 100ml T (MPN/100m L)	Prior to Reuse	001	Weekly	DISCRT
Coliform, fecal general <sup>[1]</sup>	Daily Maximum		M&R Most Probable Number per 100ml T (MPN/100m L)	Prior to Reuse	001	Weekly	DISCRT
Flow rate	Daily Maximum	≤ 1.22 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
Nitrogen, total <sup>[1]</sup>	Daily Maximum		M&R Milligrams per Liter (mg/L)	Prior to Reuse	001	Weekly	DISCRT
Nitrogen, total <sup>[1]</sup>	30 Day Average		M&R Milligrams per Liter (mg/L)	Prior to Reuse	001	Weekly	DISCRT

#### Notes (Re-use Discharge Limitations Table):

- Sample results to be obtained from KRSWRF (Permit NS0080003) and reported by the Permittee. Reclaimed water quality shall be in accordance with the limits set forth in Permit NS0080003.

#### Rationale for Permit Requirements:

Required water quality parameters are monitored to ensure effluent reuse requirements are maintained per NAC 445A and groundwaters of the State are protected.

#### Fecal Coliform:

Fecal coliform concentration limits were replaced with M&R in the Re-use Discharge Limitations Table for Location 001 (Golf Course) in this permit renewal. This is due to fecal coliform concentrations already being managed and monitored by KRSWRF under effluent limitations defined in Permit NS0080003. The treated effluent meets reuse category B requirements.

**Special Conditions:**

SA – Special Approvals / Conditions Table

Item #	Description
1	Disregard requirements in B.MW.3.
2	Each quarter, the Permittee shall submit a document confirming adherence to the approved EMP. This document shall be signed and contain the following certification:  "I certify that, for each month during the previous quarterly reporting period, all operational procedures and calculated application rates outlined in the approved Effluent Management Plan were adhered to."
3	An underdrain system was installed, prior to the golf course and community development, to convey any shallow groundwater that occurs in certain areas of the development. The underdrain system discharges to a leach field located in an area of clay soils at the northwestern portion of the golf course property. Visual monitoring of this leach field is required; no discharge to the surface from this leach field is permitted. If an unauthorized discharge is observed the Permittee shall notify the Administrator pursuant to C.8 of the permit.

**Reasonable Potential Analysis and Antidegradation Review:**

The treated effluent supplied by KRSWRF has lower total nitrogen concentrations than the receiving groundwaters of the State. Therefore, degradation of groundwaters of the State is not likely.

**Flow:**

The Permittee has applied for a 1.22 MGD daily maximum flow rate on the permit renewal. The permit requires the reuse water quantity to be monitored and reported by the Permittee. The daily maximum flow rate is based upon the highest usage month determined from the consumptive use balance plus a 10% allowance, in accordance with the approved EMP.

**Corrective Action Sites:**

This facility is located within the BMI Complex corrective action site (H-000688) and is within one mile of the Henderson Landfill corrective action site (H-000999). The NDEP case officer for these sites did not believe the renewal of this discharge permit would have a negative impact on the ongoing remediation activities. In addition, the case officer stated further monitoring of perchlorate concentrations in the groundwater at the site was not necessary at this time.

**Wellhead Protection Program:**

This facility is not located within a Drinking Water Protection Area or a Wellhead Protection Area established for any well sources.

**Schedule of Compliance:**

SOC – Schedule of Compliance Table

Item #	Description	Due Date
1	The Permittee shall submit two (2) copies of an updated Effluent Management Plan (EMP) for review and approval by the Division. The EMP shall be prepared by a Nevada Registered Professional Engineer or other qualified person. If no updates or revisions are required, the Permittee shall submit a letter by the due date stating that there have been no changes to the previously approved EMP.	7/28/2014

**Deliverable Schedule:**

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

Item #	Description	Interval	First Scheduled Due Date
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1	Quarterly DMRs	Quarterly	7/28/2014
2	Annual Report	Annually	1/28/2015

**Procedures for Public Comment:**

The Notice of the Division's intent to reissue 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. **3/12/2014**, 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.650.

**Proposed Determination:**

The Division has made the tentative determination to issue / re-issue the proposed 5-year permit.

Prepared by: **Kenneth Greene**  
 Date: **2/5/2014**  
 Title: **P.E.**