



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

FACTSHEET (pursuant to NAC 445A.236)

Permittee Name: CAESARS ENTERTAINMENT CORPORATION
11411 SOUTH EASTERN AVENUE
HENDERSON, NV - 89052

Permit Number: NS0096010

Location: RIO SECCO GOLF CLUB, CLARK
2851 GRAND HILLS DRIVE, HENDERSON, NV - 89052
LATITUDE: 35.975833, LONGITUDE: -115.110833
TOWNSHIP: 23S; 22S, RANGE: 61E, SECTION: 1; 36

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	External Outfall		HENDERSON	NV	89052	CLARK	35.975833	-115.110833	GROUNDWATER

General:

This permit renewal allows for the continued discharge of tertiary-treated effluent supplied by the Kurt R. Segler Water Reclamation Facility (KRSWRF) for irrigation of the golf course, driving range, and common areas at the Rio Secco Golf Club (RSGC) in Henderson, Nevada. A combination of spray and drip irrigation is used to irrigate approximately 89 acres of land with an estimated 500 acre-feet per year of reclaimed water at an average discharge rate of 0.95 million gallons per day (MGD). The KRSWRF has authorized the RSGC to use up to 916 acre-feet of reclaimed water per year. Two lined on-site Effluent Storage Reservoirs (ESRs) with built-in aeration diffusers store the treated effluent prior to distribution for irrigation. The ESRs have a combined total storage capacity of approximately 10 million gallons and a combined total surface area of 4.6 acres.

Discharge Characteristics:

The KRSWRF supplies tertiary-treated, disinfected reclaimed water that meets Category B quality (NAC 445A.276).

Receiving Water:

The receiving water is groundwater of the State underlying the reuse site. The groundwater depth at the RSGC ranges from approximately 325 feet to 375 feet below ground surface.

Summary of Changes From Previous Permit:

The 2008 permit authorized the RSGC to use 1437 acre-feet per year of reclaimed water on approximately 97.3 acres of land with an estimated usage of 803 acre-feet per year and 1.1 MGD. The 2015 renewal of the permit authorizes the RSGC to use 916 acre-feet per year of reclaimed water on approximately 89 acres of land with an estimated usage of 500 acre-feet per year and an average of 0.95 MGD. The new values are based on the amounts indicated in the renewal application.

The total nitrogen concentration in the reclaimed water supplied by the KRSWRF is typically around 18 mg/L. Since the supplied reclaimed water is not denitrified, the requirement to monitor and report the total nitrogen concentration in the effluent has been added to the permit.

The annual application volume limit has been removed and a 30-day average discharge limit of 0.95 MGD has been added based on the quantity of reclaimed water to be used indicated in the renewal application.

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 NEV96010 to NS0096010. 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 Effluent Limitations:

The discharge shall be limited and monitored by the Permittee as specified below:

Re-use Discharge Limitations Table for Sample Location 001 (External Outfall) To Be Reported Monthly

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Coliform, fecal general ^[1]	Monthly Maximum		<= 23 Colony Forming Units per 100ml T (CFU/100mL) ^[2]	Prior to Reuse	001	Weekly	DISCRT
Nitrogen, total ^[1]	30 Day Average		M&R Milligrams per Liter (mg/L)	Prior to Reuse	001	Monthly	DISCRT
Nitrogen, total ^[1]	Monthly Maximum		M&R Milligrams per Liter (mg/L)	Prior to Reuse	001	Monthly	DISCRT
Flow rate	Monthly Maximum	M&R Million Gallons per Day (Mgal/d)		Prior to Reuse	001	Continuous	METER
Coliform, fecal general ^[1]	30 Day Average		<= 2.2 Colony Forming Units per 100ml T (CFU/100mL) ^[2]	Prior to Reuse	001	Weekly	DISCRT
Flow rate	30 Day Average	<= 0.95 Million Gallons per Day (Mgal/d)		Prior to Reuse	001	Continuous	METER

Notes (Re-use Discharge Limitations Table):

1. Sample results to be reported by the Permittee may be obtained from the KRSWRF (NS0080003).
2. In accordance with NAC 445A.276, fecal coliform may be reported in c.f.u. or mpn/100mL.

Rationale for Permit Requirements:

Flow Rate is monitored in order to prevent ponding, runoff, and consequential negative impacts to the receiving groundwater.

Fecal Coliform is monitored to ensure that the concentration of fecal coliform in the treated effluent does not exceed the allowable concentration for Reuse Category B in accordance with NAC 445A.276.

Total Nitrogen is monitored to prevent leaching and degradation of the underlying groundwater.

Although the total nitrogen concentration in the reclaimed water supplied by the KRSWRF is typically around 18 mg/L, groundwater monitoring at the RSGC is not required by this permit because the groundwater at the reuse site is more than 300 feet below ground surface.

Fecal Coliform:

30-Day Average ≤ 2.2 c.f.u. or mpn/100mL

Monthly Maximum \leq 23 c.f.u. or mpn/100mL

Special Conditions:

SA – Special Approvals / Conditions Table

There are no Special Approval / Condition items

Flow:

30-Day Average Flow Rate \leq 0.95 MGD

Corrective Action Sites:

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

Wellhead Protection Program:

The RSGC is not located within a Drinking Water Protection Area or a Wellhead Protection Area.

Schedule of Compliance:

SOC – Schedule of Compliance Table

Item #	Description	Due Date
1	The Permittee shall submit two copies of a new Effluent Management Plan (EMP) to the Division within 90 days of permit issuance. The EMP shall be prepared and wet-stamped by a Nevada Registered Professional Engineer.	6/1/2015

Deliverable Schedule:

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

Item #	Description	Interval	First Scheduled Due Date
1	Quarterly DMRs	Quarterly	4/28/2015
2	Annual Report	Annually	1/28/2016

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. **2/15/2015**, 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: **Alan Pineda**

Date: **1/5/2015**

Title: **Staff I Associate Engineer**