



STATE OF NEVADA

Department of Conservation & Natural Resources

Brian Sandoval, Governor

Leo M. Drozdoff, P.E., Director

DIVISION OF ENVIRONMENTAL PROTECTION

Colleen Cripps, Ph.D., Administrator

FACTSHEET (pursuant to NAC 445A.236)

Permittee Name: CLARK COUNTY PARKS AND REC.
2601 E. SUNSET RD.
LAS VEGAS, NV - 89120

Permit Number: NS2003514

Location: CLARK COUNTY WETLANDS PARK NATURE PRESERVE II, CLARK
7050 WETLANDS PARK LANE, LAS VEGAS, NV - 89122
LATITUDE: 36.100313, LONGITUDE: -115.021942
TOWNSHIP: 21 S, RANGE: 62 E, SECTION: 23, 24 & 26

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Outfall City	Outfall State	Outfall Zip	Outfall County	Latitude	Longitude	Receiving Water
001	NATURE PRESERVE WEST	External Outfall		LAS VEGAS	NV	89122	CLARK	36.100851	-115.028894	GROUNDWATER
002	DUCK CREEK TRAILHEAD	External Outfall		LAS VEGAS	NV	89122	CLARK	36.093378	-115.024066	GROUNDWATER
003	SUNRISE TRAILHEAD	External Outfall		LAS VEGAS	NV	89122	CLARK	36.108635	-115.010633	GROUNDWATER
004	COMBINED DATA FOR OUTFALLS 001, 002, AND 003	External Outfall		LAS VEGAS	NV	89122	CLARK	36.111669	-115.023487	GROUNDWATER

General:

The Clark County Department of Parks and Community Services operates this 75 acre wetlands park, Wetlands Park Nature Preserve II (Preserve II), that provides the public an opportunity to tour the native desert and wetlands species of southern Nevada. The Preserve II portion of the Wetland Park facility is located near the eastern terminus of E. Tropicana Avenue in Las Vegas, Nevada. There are three irrigated areas which comprise Preserve II. The Nature Preserve West (001) borders the main Wetland Park Nature Preserve I (managed under permit #NS2003504) on the west; the Duck Creek Trailhead (002) lies about a half mile southeast of Nature Preserve West, with access on the east side of Broadbent Boulevard; and the Sunrise Trailhead (003) is about 3000 feet southeast of the Flamingo Water Resource Center (FWRC), off of Hollywood Boulevard.

As a primary water source for irrigating these Preserve II areas, the Department manages the diversion of up to 0.58 million gallons per day of tertiary treated, filtered and disinfected effluent from the FWRC (Permit #NV0021261) into the park. This effluent meets Category B standards as listed in Nevada Administrative Code 445A.276. The reuse is conducted via spray and drip irrigation, with the spray irrigation occurring during the nighttime hours when the public is not permitted to be in the park. An NDEP approved effluent management plan (EMP) will be enforced as a part of the permit to ensure that all public health protection safeguards remain in place.

Discharge Characteristics:

The requested discharge amount is for a supplier authorized amount of 650 acre-feet of treated effluent from the FWRC for irrigation of the three sections of Preserve II. The discharge rate to the three outfalls will be monitored to track the flow rates. The maximum daily limit of 0.581 MGD is placed in the permit based on the irrigation needs at these sites. An annual volume of application for the three sites will be reported in the fourth quarter DMR to demonstrate compliance.

Receiving Water:

The receiving water is groundwater of the State. There is no significant nexus between the Preserve II and the Las Vegas Wash. Discharges associated with this permit are not expected to have a negative effect on the receiving water.

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 NEV2003514 to NS2003514. 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:

During the period beginning on the effective date of this permit, and lasting until the permit expires, the Permittee is authorized to:

- discharge tertiary treated disinfected and partially denitrified wastewater effluent, supplied by CCWRD, for wetlands enhancement and site irrigation of grass and desert native plant species.

Re-use Discharge Limitations Table for Sample Location 001 (Nature Preserve West) To Be Reported Monthly

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Flow, total	Daily Maximum	M&R Million Gallons (Mgal)		Prior to Irrigation	001	Continuous	METER ^[1]
Flow, total	30 Day Average	M&R Million Gallons (Mgal)		Prior to Irrigation	001	Continuous	METER ^[1]

Notes (Re-use Discharge Limitations Table):

1. Flow data currently monitored and reported to the Permitted by the Flamingo Water Resource Center.

Re-use Discharge Limitations Table for Sample Location 001 (Nature Preserve West) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Flow, total	Annual Total ^[2]	<= 107.53 Million Gallons (Mgal) ^[1]		Prior to Irrigation	001	Continuous	CALCTD

Notes (Re-use Discharge Limitations Table):

1. 330 acre-ft/yr.
2. Annual totals to be reported in the 4th Quarter DMRs

Re-use Discharge Limitations Table for Sample Location 002 (Duck Creek Trailhead) To Be Reported Monthly

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Flow, total	30 Day Average	M&R Million Gallons (Mgal)		Prior to Irrigation	002	Continuous	METER
Flow, total	Daily Maximum	M&R Million Gallons (Mgal)		Prior to Irrigation	002	Continuous	METER

Re-use Discharge Limitations Table for Sample Location 002 (Duck Creek Trailhead) To Be Reported Annually

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Flow, total	Annual Total ^[2]	<= 52.137 Million Gallons (Mgal) ^[1]		Prior to Irrigation	002	Continuous	CALCTD

Notes (Re-use Discharge Limitations Table):

1. 160 acre-ft/yr.
2. Annual totals to be reported in the 4th Quarter DMRs

Re-use Discharge Limitations Table for Sample Location 003 (Sunrise Trailhead) To Be Reported Monthly

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Flow, total	Daily Maximum	M&R Million Gallons (Mgal)		Prior to Irrigation	003	Continuous	METER
Flow, total	30 Day Average	M&R Million Gallons (Mgal)		Prior to Irrigation	003	Continuous	METER

Re-use Discharge Limitations Table for Sample Location 003 (Sunrise Trailhead) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Flow, total	Annual Total ^[2]	<= 52.137 Million Gallons (Mgal) ^[1]		Prior to Irrigation	003	Continuous	CALCTD

Notes (Re-use Discharge Limitations Table):

1. 160 acre-ft/year
2. Annual totals to be reported in the 4th Quarter DMRs

Re-use Discharge Limitations Table for Sample Location 004 (Combined Data For Outfalls 001, 002, And 003) To Be Reported Monthly

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Coliform, fecal general	Daily Maximum		<= 23 Most Probable Number per 100ml T (MPN/100mL)	Prior to Irrigation ^[1]	004	Weekly	DISCRT
Coliform, fecal general	30 Day Geometric Mean		<= 2.2 Most Probable Number per 100ml T (MPN/100mL)	Prior to Irrigation ^[1]	004	Weekly	DISCRT
Flow rate	Daily Maximum	<= 0.581 Million Gallons per Day (Mgal/d)		Prior to Irrigation ^[1]	004	Continuous	METER

Notes (Re-use Discharge Limitations Table):

1. Effluent to be sampled by CCWRD prior to discharge to the Preserve and data provided to the Permittee for DMR submission.

Rationale for Permit Requirements:

Influent monitoring is required to characterize the water quality and influent flow totals supplied by CCWRD to the Preserve II. Monitoring is conducted to confirm effluent quality for the use intended as well as to ensure groundwaters of the State are protected.

Fecal Coliform:

Fecal Coliform: Effluent supplied by CCWRD, Permit NV0021261, meets Category "B" quality as designated in NAC 445A.276.

30 Day Geometric Mean <= 2.2 (MPN/100mL) and Daily Maximum <= 23 (MPN/100mL)

Special Conditions:

SA – Special Approvals / Conditions Table

There are no Special Approval / Condition items

Reasonable Potential Analysis and Antidegradation Review:

An analysis was performed by the Permittee to determine whether there were any pollutants (conventional, non-conventional, or toxic pollutants) that are or may be discharged at a level which will cause, have reasonable potential to cause, or contribute to an excursion above any State water quality standard, including State narrative criteria for water quality. The Permittee has indicated that no reasonable potential was found.

Flow:

The discharge rate to the three outfalls shall be monitored to track the flow rates. The total daily limit of 0.581 MGD is

placed in the permit based on the irrigation needs at these sites. An annual volume of application for the three sites is listed separately as presented in the EMP and will be reported in the fourth quarter DMR to demonstrate compliance. This limit is in place to prevent over irrigation with treated effluent at the sites.

Corrective Action Sites:

There are no NDEP Bureau of Corrective Actions sites within a one-mile radius of this permitted site.

Wellhead Protection Program:

This permitted site 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	Within 60 days of permit issuance, the Permittee shall submit two (2) copies of a new Effluent Management Plan (EMP) for review and approval by the Division. The EMP shall be compiled in accordance with the appropriate sections of WTS-1B "General Design Criteria for Preparing an Effluent Management Plan". The EMP shall be prepared and stamped by a Nevada Registered Professional Engineer.	1/5/2015

Deliverable Schedule:

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

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

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. **10/16/2014**, 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.605.

Proposed Determination:

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

Prepared by: **Michele Reid**

Date: **9/9/2014**

Title: **Staff I Associate Engineer**