



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 DEPARTMENT OF PUBLIC WORKS
500 GRAND CENTRAL PARKWAY
LAS VEGAS, NV - 89155

Permit Number: NV0024214

Location: LAS VEGAS WASH & FLAMINGO WASH, CLARK
SAHARA AND NELLIS, LAS VEGAS, NV - 89142
LATITUDE: 36.143751, LONGITUDE: -115.065621
TOWNSHIP: T21S, RANGE: R62E, SECTION: S8

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Outfall City	Outfall State	Outfall Zip	Outfall County	Latitude	Longitude	Receiving Water
001	OUTFALL 001	External Outfall		LAS VEGAS	NV	89142	CLARK	36.142222	-115.142222	LAS VEGAS WASH/LAKE MEAD

General:

The Permittee, Clark County Department of Public Works (CCPW), proposes to discharge groundwater encountered during construction activities into the Las Vegas Wash and Flamingo Wash downstream of construction activities. This project will consist of constructing new flood control structures throughout the Desert Rose Golf Course, The Las Vegas Wash, and the Flamingo Wash. Both the Flamingo Wash and the Las Vegas Wash are owned by the Permittee, who has included with their application proof of ownership of the proposed discharge location.

Discharge Characteristics:

The discharge consists of intercepted groundwater under the Las Vegas Wash and Flamingo Wash encountered during construction activities. Test results provided with the application show that there is no reasonable potential for degradation to the Las Vegas Wash or Flamingo Wash.

Receiving Water:

The receiving water is the Las Vegas Wash and Flamingo Wash. Because the Flamingo Wash terminates into the Las Vegas Wash, and there are no specific requirements for the Flamingo Wash, the discharge requirements for the Las Vegas Wash were used to determine permit requirements. The standards for the Las Vegas Wash in the area of the proposed discharge, found in NAC 445A.2156, are as follows:

pH: 6.5 - 9.0 SU
Nitrate: 100 mg/L
Nitrite: 10 mg/L
TSS: 135 mg/L
TDS: 3,000 mg/L
Fecal Coliform: 200 MPN/100mL

Summary of Changes From Previous Permit:

This is a new NPDES permit.

Proposed Effluent Limitations:

Based on lab results submitted with the application, as well as the regulations in NAC 445A for surface waters in the state of Nevada and the Las Vegas Wash, the following effluent limitations are proposed:

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
Solids, total suspended	Value		<= 135.0 Milligrams per Liter (mg/L)	Effluent Gross	001	Monthly	DISCRT
Iron, total (as Fe)	Value		<= 1.0 Milligrams per Liter (mg/L)	Effluent Gross	001	Monthly	DISCRT
Flow rate	30 Day Average	< 10.0 Million Gallons per Day (Mgal/d)		Effluent Gross	001	Continuous	METER
Flow rate	Daily Maximum	< 10.0 Million Gallons per Day (Mgal/d)		Effluent Gross	001	Continuous	METER
Lead, total (as Pb)	Daily Maximum		<= 0.4156 Milligrams per Liter (mg/L)	Effluent Gross	001	Monthly	DISCRT
Solids, total dissolved	Value		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Monthly	DISCRT
Lead, total (as Pb)	30 Day Average		<= 0.0162 Milligrams per Liter (mg/L)	Effluent Gross	001	Monthly	DISCRT

Rationale for Permit Requirements:

Based on lab results submitted with the permit application, the constituents of concern in the discharge are iron and lead.

Total Suspended Solids (TSS): 135 mg/L. The Las Vegas Wash has a limit of 135 mg/L of TSS, and dewatering operations may extract solids along with the extracted groundwater.

Iron, Total (as Fe): 1.0 mg/L. Total iron is limited and monitored in accordance with NAC 445A.1236 for designated surface waters of the United States.

Lead, Total (as Pb), 30 Day Average: 0.0162 mg/L, Daily Maximum: 0.4156 mg/L. Total lead is limited and monitored in accordance with NAC 445A.1236 for designated surface waters of the United States. The NAC 445A.1236 Aquatic Life Standards include equations with hardness as the only variable to determine the 1-hour (acute) and 96-hour (chronic) average dissolved lead standards. Using samples collected by the Bureau of Water Quality Planning from October 2002 to September 2012, a geometric mean hardness

value of 589 mg/L in the Las Vegas Wash was calculated. The equations in NAC 445A.1236 were used to calculate an acute total lead standard of 415.6 µg/L and a chronic total lead standard of 16.2 µg/L.

Total Dissolved Solids (TDS): M&R mg/L. This permit is for the interception and passage of groundwater and thus is exempted under the Colorado River Basin Salinity Control Forum's policy on groundwater interception.

Special Conditions:

SA – Special Approvals / Conditions Table

Item #	Description
1	If a petroleum hydrocarbon (fuel, grease, solvent, etc.) sheen is evident, then a grab sample shall be obtained from the sheen, and sent to a Nevada State Certified laboratory for analyses of TPH –full range organics. If a fuel leak or other equipment failure causes a sheen, the NDEP spill line shall be notified within 24 hours of occurrence at 1-888-331-6337.

Reasonable Potential Analysis and Antidegradation Review:

The discharge consists of intercepted groundwater encountered during construction in and near the Las Vegas Wash. It is reasonable to assume that this groundwater will eventually make it to the Las Vegas Wash naturally, and is of minimal concern with respect to pollutants based on lab results received with the permit application. No degradation of water quality in the Las Vegas Wash from the permitted activities is expected to occur.

Flow:

CCPW has requested 30-day average and daily maximum flow limits of 10.0 Million Gallons per Day (MGD).

Corrective Action Sites:

There are two Bureau of Corrective Actions case sites within one mile of the project area. The case officer for these projects has indicated that there should not be any impact on the proposed permit activities.

Wellhead Protection Program:

This facility is not within an established Wellhead Protection Area or a Drinking Water Protection Area.

Schedule of Compliance:

SOC – Schedule of Compliance Table

Item #	Description	Due Date
1	Within 60 days of permit issuance, the Permittee shall submit an Operations and Maintenance Manual, prepared in accordance with applicable sections of WTS-2 Minimum Information Required for an Operation and Maintenance Manual for a Wastewater Treatment Plant, to the Division for review and approval.	9/1/2014

Deliverable Schedule:

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

Item #	Description	Interval	First Scheduled Due Date
1	Quarterly Report	Quarterly	10/28/2014
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 surface waters 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. **7/11/2014** , 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: **Robert Wimer**

Date: **6/3/2014**

Title: **E.I.**