



FACTSHEET
(pursuant to NAC 445A.236)

Permittee Name: CITY OF NORTH LAS VEGAS WATER RECLAMATION FACILITY
2580 BETTY LANE
LAS VEGAS, NV - 89156

Permit Number: NS2016501

Location: WATER RECLAMATION FACILITY, CLARK
2580 BETTY LANE, LAS VEGAS, NV - 89156
LATITUDE: 36.20662210, LONGITUDE: -115.05753520
TOWNSHIP: T20S, RANGE: R62E, SECTION: S16

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Outfall City	Outfall State	Outfall Zip	Outfall County	Latitude	Longitude	Receiving Water
001	TREATED EFFLUENT SUPPLY	External Outfall		NORTH LAS VEGAS	NV	89156	CLARK	36.205176	-115.056284	GROUNDWATER
002	SUNRISE GOLF COURSE	External Outfall		NELLIS	NV	89191	CLARK	36.215209	-115.047726	GROUNDWATER

General:

The Permittee, City of North Las Vegas, owns and operates a wastewater treatment plant in North Las Vegas, Clark County, NV. Under permit NV0023647, the tertiary-treated domestic and industrial wastewater from the facility is discharged to the Sloan Channel and the Las Vegas Wash. This permit will authorize the discharge of the treated effluent to various sites for beneficial reuse.

Discharge Characteristics:

The discharge consists of tertiary-treated reclaimed water, which exceeds the secondary treatment standards required for reuse, and meets Category B reuse standards, in accordance with the Nevada Administrative Code (NAC), Chapter 445A. Facilities requesting to use treated effluent provided by the City of North Las Vegas Water Reclamation Facility for reuse will be required to obtain their own discharge permits from NDEP.

Receiving Water:

The receiving water is groundwater of the State at various sites in Clark County. The discharge of reclaimed water for reuse is not expected to negatively impact the receiving water and will be evaluated for each facility requesting to be permitted for the use of the reclaimed water.

Summary of Changes From Previous Permit:

This is a new permit.

Proposed Effluent Limitations:

The discharge will be monitored and limited in accordance with the tables below.

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

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Flow rate	30 Day Average	M&R Million Gallons per Day (Mgal/d)		Effluent Gross	001	Continuous	METER
Flow rate	Daily Maximum	<= 10 Million Gallons per Day (Mgal/d)		Effluent Gross	001	Continuous	METER
pH, maximum	Maximum		<= 9.0 Standard Units (SU)	Effluent Gross	001	Weekly	DISCRT
BOD, 5-day	30 Day Average		<= 30 Milligrams per Liter (mg/L)	Effluent Gross	001	Weekly	DISCRT
Solids, total suspended	30 Day Average		<= 30 Milligrams per Liter (mg/L)	Effluent Gross	001	Weekly	DISCRT
pH, minimum	Minimum		>= 6.0 Standard Units (SU)	Effluent Gross	001	Weekly	DISCRT
Coliform, fecal general	30 Day Average		<= 2.2 Colony Forming Units per 100ml T (CFU/100mL)	Effluent Gross	001	Weekly	DISCRT
Coliform, fecal general	Daily Maximum		<= 23 Colony Forming Units per 100ml T (CFU/100mL)	Effluent Gross	001	Weekly	DISCRT
Nitrogen, total	30 Day Average		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Weekly	DISCRT

Re-use Discharge Limitations Table for Sample Location 002 (Sunrise Vista Golf Course) To Be Reported Monthly

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Flow rate	30 Day Average	M&R Million Gallons per Day (Mgal/d)		Effluent Gross	002	Continuous	METER
Flow rate	Daily Maximum	M&R Million Gallons per Day (Mgal/d)		Effluent Gross	002	Continuous	METER

Rationale for Permit Requirements:

The permit limits have been developed to protect human health and the environment. The required effluent quality is based on reclaimed water standards, as found in NAC 445A.275 and NAC 445A.276.

Biochemical Oxygen Demand – 5-Day, Uninhibited: This parameter is monitored to protect waters from excessive organic loading. The limit is a monthly average of 30 mg/L.

Total Suspended Solids: This parameter is monitored to ensure that the groundwater of the State is not degraded. The limit is 30 mg/L.

Fecal Coliform: The concentration of fecal coliform in treated wastewater discharged for reuse is restricted in accordance with NAC 445A.276. Fecal Coliform is limited to a 30-day average of 2.2 and a daily maximum of 23 colony forming units, or most probable number, per 100 ml.

pH: pH is limited to 6.0 to 9.0 standard units.

Total Nitrogen: Total Nitrogen is required to be monitored and reported. Facilities requesting to use treated effluent provided by the City of North Las Vegas Water Reclamation Facility will be required to submit an Effluent Management Plan, which will include nitrogen balance calculations to ensure that groundwater is not degraded as a result of the use of reclaimed water.

Special Conditions:

SA – Special Approvals / Conditions Table

Item #	Description
1	With NDEP approval, the Permittee may add reuse sites to this permit as a minor modification. Each reuse site must receive a discharge permit from NDEP before reclaimed water is delivered. Fees are subject to change as a result of additional discharge flow, in accordance with NAC 445A.232.

Flow:

The flow is limited to 10 million gallons per day.

Corrective Action Sites:

Corrective action sites will be evaluated for each permitted facility that receives the reclaimed water.

Wellhead Protection Program:

Wellhead Protection Areas and Drinking Water Protection Areas will be evaluated for each permitted facility that receives the reclaimed water.

Schedule of Compliance:

SOC – Schedule of Compliance Table

Item #	Description	Due Date
1	The Permittee shall submit, for Division review, a revised Operations and Maintenance (O&M) manual that addresses reclaim water supply and distribution. The O&M manual must be prepared by a qualified individual.	12/1/2017
2	The discharge monitoring report due on 07/28/2017, and all subsequent DMRs, shall be submitted electronically through NetDMR (https://netdmr.ndep.nv.gov/netdmr/public/login.htm).	7/28/2017

Deliverable Schedule:

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

Item #	Description	Interval	First Scheduled Due Date
1	Quarterly Reports	Quarterly	7/28/2016
2	Annual Reports	Annually	1/28/2017

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. **5/16/2016**, 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: **Peter Lassaline**

Date: **4/12/2016**

Title: **Environmental Scientist**