

Brian Sandoval, Governor Leo M. Drozdoff, P.E., Director David Emme, Administrator

FACTSHEET (pursuant to NAC 445A.236)

Permittee Name: RESORTS WORLD LAS VEGAS, LLC 110-00 ROCKAWAY BLVD. JAMAICA, NY - 11420

Permit Number: NV0023621

Location: RESORTS WORLD LAS VEGAS, CLARK 3000 SOUTH LAS VEGAS BLVD, SOUTH, LAS VEGAS, NV - 89109 LATITUDE: 36.132381, LONGITUDE: -115.169117 TOWNSHIP: T21S, RANGE: R61E, SECTION: S9

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Outfall City	Outfall State	Outfall Zip	Outfall County	Latitude	Longitude	Receiving Water
001	CONSTRUCTION AND PERMANENT DEWATERING DISCHARGE	External Outfall		LAS VEGAS	NV	89109	CLARK	36.1325	-115.169167	FLAMINGO WASH VIA STORM DRAIN

General:

The Permittee has applied for a renewal of its United States Environmental Protection Agency (EPA) National Pollutant Discharge Elimination System (NPDES) permit to continue discharging untreated groundwater for construction activities and the proposed sub-grade dewatering system for the underground portions of the proposed building structure(s) known as Resorts World Las Vegas, located at 3000 South Las Vegas Boulevard in Las Vegas, Nevada. This site has been dewatering for construction activities since June 2007. The site, once completed, will contain a permanent dewatering system to protect the structural integrity of the proposed hotel towers, podium, and parking structure. The groundwater is discharged to the Clark County storm drain system.

Discharge Characteristics:

From the 3rd quarter of 2010 to the 4th quarter of 2014, the minimum 30-day average discharge flow rate and the maximum 30-day average discharge flow rate listed in the quarterly Discharge Monitoring Reports (DMRs) were 75,000 and 438,000 gallons per day, respectively. The average daily discharge rate from the 18 reported quarters of the 30-day average flow rate was 315,000 gallons per day. The quarterly DMRs listed no exceedances of the permitted discharge limits. Furthermore, the DMRs showed no concentrations of chemicals of concern (COCs) that exceeded the water quality standards for the receiving body of water and that would adversely impact waters of the United States.

Receiving Water:

The untreated groundwater is discharged to the Flamingo Wash (tributary of Las Vegas Wash) via the Clark County storm drain system. The Nevada Administrative Code (NAC) 445A.2156 sets the standards of water quality for the body of water known as the Las Vegas Wash from the confluence of the discharges from the City of Las Vegas and Clark County wastewater treatment plants to Telephone Line Road.

Summary of Changes From Previous Permit:

• Quarterly reporting for Priority Pollutant Volatile Organic Compounds (VOCs) has been reduced to

annual reporting. In addition, discharge concentration limits for VOCs (if in place) were modified to M&R because data shown in DMRs indicated no contamination of groundwater. However, annual monitoring and reporting of Priority Pollutant VOCs concentrations in the untreated groundwater will allow NDEP the opportunity to review and ensure degradation of waters does not occur.

- Reporting for barium, calcium, fluoride, iron, magnesium, manganese, molybdenum, and calcium carbonate has been removed. DMRs showed no concentrations of COCs that exceeded the water quality standards for the receiving body of water and that would adversely impact waters of the United States.
- Quarterly reporting for Priority Pollutant metals has been reduced to annual reporting. The shallow
 groundwater with these naturally occurring constituents would flow to Las Vegas Wash were it not
 intercepted by the dewatering system. This parameter will be monitored and reported annually to allow
 NDEP the opportunity to review and ensure concentrations remain consistent with background levels
 and degradation of waters does not occur.
- Quarterly monitoring and reporting of nitrate plus nitrite concentrations has been removed from this permit because it is redundant (used to calculate the total inorganic nitrogen concentration).

Proposed Effluent Limitations:

The untreated groundwater discharged to the Clark County storm drain system shall be monitored and reported by the Permittee as specified below.

		Discharge Lim	Monitoring Requirements				
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Flow rate	Daily Maximum	< 0.500 Million Gallons per Day (Mgal/d)		Effluent Gross	001	Continuous	METER
Flow rate	30 Day Average	< 0.500 Million Gallons per Day (Mgal/d)		Effluent Gross	001	Continuous	METER

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

		Discharge Lim	Monitoring Requirements					
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type	
Nitrogen, ammonia, total (as NH3)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Quarterly	DISCRT	
pH, minimum	Daily Minimum		>= 6.5 Standard Units (SU)	Effluent Gross	001	Quarterly	DISCRT	
pH, maximum	Daily Maximum		<= 9.0 Standard Units (SU)	Effluent Gross	001	Quarterly	DISCRT	
Solids, total dissolved	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Quarterly	DISCRT	
Nitrogen, inorganic total	Daily Maximum		<= 20 Milligrams per Liter (mg/L)	Effluent Gross	001	Quarterly	DISCRT	
Phosphorus, total (as P)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Quarterly	DISCRT	

Notes (Discharge Limitations Table):

1. Refer to Part A.3.2 of this permit for required monitoring details.

Discharge Limitations Monitoring Requirements								
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type	
Copper, total (as Cu)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT	
Lead, total (as Pb)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT	
Boron, total (as B)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT	
Antimony, total (as Sb)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT	
Arsenic, total (as As)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT	
Beryllium, total (as Be)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT	
Cadmium, total (as Cd)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT	
Chromium, total (as Cr)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT	
1,1,1-Trichloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT	
1,1,2,2- Tetrachloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT	
1,1,2-Trichloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT	
			M&R					

	Disc	М	Monitoring Requirements				
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
1,1-Dichloroethane	Daily Maximum		Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT
1,1-Dichloroethylene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT
1,2-Dichlorobenzene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT
1,2-Dichloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT
1,2-Dichloropropane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT
1,3-Dichlorobenzene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT
1,4-Dichlorobenzene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT
2-Chloroethyl vinyl ether, (mixed)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT
Benzene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT
Dichlorobromomethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT
Bromoform	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT
			M&R				

	Discharge Limitations							
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type	
Methyl bromide (Bromomethane)	Daily Maximum		Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT	
Carbon tetrachloride	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT	
Chlorobenzene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT	
Chloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT	
Chloroform	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT	
Methyl chloride (Chloromethane)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT	
cis-1,3- Dichloropropene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT	
Dibromochloromethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT	
Ethylbenzene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT	
Methylene chloride	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT	
Tetrachloroethylene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT	
			M&R					

	Disc	Μ	Monitoring Requirements				
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Toluene	Daily Maximum		Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT
trans-1,2- Dichloroethylene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT
trans-1,3- Dichloropropene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT
Trichloroethylene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT
Trichlorofluoromethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT
Vinyl chloride	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT
Xylene ^[2]	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT
Hydrocarbons, total petroleum	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT
Methyl tert-butyl ether	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Annual	DISCRT
Mercury, total (as Hg)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT
Nickel, total (as Ni)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT
			M&R				

	Monitoring Requirements						
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Selenium, total (as Se)	Daily Maximum		Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT
Silver, total (as Ag)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT
Thallium, total (as TI)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT
Zinc, total (as Zn)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT

Notes (Discharge Limitations Table):

1. Refer to Part A.3.2 of this permit for required monitoring details.

2. Total xylenes.

Rationale for Permit Requirements:

Monitoring and reporting is required to assess the quality of the discharge water and to ensure that the untreated groundwater will not impact the beneficial uses of the Las Vegas Wash.

<u>pH</u>: Quarterly monitoring and reporting is required to verify that pH of groundwater samples collected does not exceed water quality standards stipulated in NAC 445A.2156 for the beneficial uses designated in NAC 445A.2142.

<u>Total Petroleum Hydrocarbons (TPH)</u>: Monitoring and reporting of TPH concentrations in the untreated groundwater has been retained from the previous permit because it allows NDEP the opportunity to review and ensure degradation of waters does not occur.

<u>VOCs</u>: Monitoring and reporting of Priority Pollutant VOCs concentrations in the untreated groundwater has been retained from the previous permit because it allows NDEP the opportunity to review and ensure degradation of waters does not occur.

<u>Total Dissolved Solids (TDS)</u>: NAC 445A.2156 includes a TDS requirement of 95% of the single value samples being less than or equal to 1900 mg/L. Naturally occurring elevated TDS levels would flow to the Las Vegas Wash if it were not intercepted by the dewatering system; therefore, the TDS standard is not applied to remediation discharges in this area. 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. The requirement to monitor and report quarterly has been retained from the previous permit.

<u>Selenium</u>: Annual monitoring and reporting for selenium has been retained for this permit due to the 303(d) listing of this parameter as a pollutant of concern for Las Vegas Wash. The shallow groundwater with this naturally occurring constituent would flow to Las Vegas Wash were it not intercepted by the dewatering system. This parameter will be monitored and reported annually to allow NDEP the opportunity to review and ensure concentrations remain consistent with background levels and degradation of waters does not occur.

<u>Boron</u>: Annual monitoring and reporting for boron has been retained for this permit due to the 303(d) listing of this parameter as a pollutant of concern for Las Vegas Wash. The shallow groundwater with this naturally occurring constituent would flow to Las Vegas Wash were it not intercepted by the dewatering system. This parameter will be monitored and reported annually to allow NDEP the opportunity to review and ensure concentrations remain consistent with background levels and degradation of waters does not occur.

<u>Total Ammonia as Nitrogen (TAN) and Total Phosphorus (TP)</u>: The 1989 TMDL document for the receiving water included the following discussion of point source contributions to the Las Vegas Wash: "Point source discharges into the Las Vegas Wash include City of Las Vegas, Clark County Sanitation District, TIMET, Kerr-McGee and Stauffer ... Kerr-McGee discharges non-contact cooling water and stormwater and Stauffer discharges stormwater. The discharges from both these facilities are intermittent, and have been relatively uncommon in the past. TIMET discharges approximately four million gallons per day and both the total ammonia and total phosphorus concentration found in these discharges are approximately 0.01 mg/L or less. Therefore, only the discharge from the City of Las Vegas and Clark County treatment plants were used to estimate the total monthly average point source load discharged to Las Vegas Wash.

In consideration of the permit application, NDEP has determined that the permitted discharge limits are consistent with the assumptions for the relevant Waste Load Allocations (WLAs) and do not warrant more restrictive limits to implement the applicable WLAs. Based on the quarterly DMRs submitted by the Permittee, concentrations of TAN in the discharge water samples collected from the 3rd quarter of 2010 to the 4th quarter of 2014 were non-detectable in 4 of 18 samples. Concentrations of TP in the discharge water samples collected from the 3rd quarter of 2010 to the 4th quarter of 2014 were non-detectable in 9 of 18 samples. The detectable concentrations of TAN in the collected samples ranged between 0.038 mg/L and 0.11 mg/L. The detectable concentrations of TP in the collected samples ranged between 0.018 mg/L, and 0.12 mg/L. In conjunction with the proposed maximum flow of less than 500,000 gallons per day, NDEP has determined the load to be an insignificant or negligible contributor of total ammonia and TP. However, these chemicals will be monitored quarterly to allow NDEP the opportunity to review and ensure concentrations remain consistent with background levels and degradation of waters does not occur.

Special Conditions:

SA – Special Approvals / Conditions Table

ltem #	Description
1	Every precaution must be taken in the application of Best Management Practices to prevent silt, sediment, and other pollutants from entering the storm drain inlet during dewatering activities.

Flow:

Flow data is necessary for determining potential impacts to the receiving water. The flow is limited to a daily maximum of less than 500,000 gallons per day.

Corrective Action Sites:

There are seven Bureau of Corrective Actions (BCA) sites: H-000402; 8-001540; 8-000180; 8-001467; 8-000841; H-000708; and 8-000299 located within a one-mile radius of this facility. The BCA case officers for these sites do not expect the dewatering discharge associated with this permit to have adverse effects on their on-going remediation sites.

Wellhead Protection Program:

A wellhead protection plan has not been established for this area. Furthermore, this site is not located within a drinking water protection area.

Schedule of Compliance:

ltem #	Description	Due Date
1	The Permittee shall submit two copies of an updated Operations and Maintenance (O&M) Manual for review by the Division. The O&M Manual shall be prepared by a qualified person familiar with system operations.	1/28/2016

SOC – Schedule of Compliance Table

Deliverable Schedule:

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

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

Procedures for Public Comment:

The Notice of the Division's intent to issue 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. 9/4/2015, 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: Kenneth Greene

Date: 7/28/2015 Title: P.E.