



# 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

## FACT SHEET (pursuant to NAC 445A.236)

**Applicant:** Clark County Water Reclamation District  
5857 E. Flamingo Road  
Las Vegas, NV 89122

**Permit Number:** NV0024180

**Location:** Maryland Parkway Lift Station Decommissioning  
Flamingo Wash, from South Maryland Parkway to Algonquin Drive  
Las Vegas, Clark County, NV  
Section 14, T21S, R61E MDB&M  
Receiving Pit: Latitude: 36° 07' 04.03" N, Longitude: 115° 08' 06.13" W  
Jacking Pit: Latitude: 36° 07' 06.09" N, Longitude: 115° 07' 58.37" W

**Discharge Outfall:** Groundwater will be collected in a system of pumping wells placed to dewater the jacking and receiving pits for tunneling operations. The pumps will be connected to a discharge piping system and sediment settling tanks. The discharge will be directed via gravity to two outfalls at the Flamingo Wash, one adjacent to the jacking pit, and one adjacent to the receiving pit, on either side of the Flamingo Wash channel.

**Outfall 001: Flamingo Wash via Jacking Pit dewatering discharge system**  
Latitude: 36° 07' 04.70" N Longitude: 115° 08' 04.00" W

**Outfall 002: Flamingo Wash via Receiving Pit dewatering discharge system**  
Latitude: 36° 07' 06.30" N Longitude: 115° 08' 00.00" W

**General:** The Permittee has applied for a new National Pollutant Discharge Elimination System (NPDES) permit, NV0024180, to discharge shallow groundwater encountered during decommissioning of the Maryland Parkway lift station. Project activities will include replacement of the lift station with a gravity system, and installation of approximately 2,000 linear feet of sanitary sewer pipeline and manholes, 250 linear feet of which will require shallow groundwater dewatering and discharge. Six pumping wells will be installed to dewater the site for the linear construction and installation activities, at 2 locations, the jacking pit and the receiving pit. Discharge will be routed through sediment settling tanks prior to being discharged via gravity to the Flamingo Wash. Dewatering is expected to be required for only a portion of the project, and discharge is expected to last approximately two months. Because of the high flow rates and discharge to surface water the five-year NPDES permit is the only viable permit for the dewatering discharge.

Although the proposed NPDES permit is for a period of five years, the construction project is expected to be completed in approximately six months. Monitoring of the discharge is required to ensure that surface waters are not degraded as a result of the construction dewatering discharge.

**Flow:** The discharge from the construction dewatering will be permitted at 9 million gallons per day (MGD) for the maximum daily flow rate and the 30-day average. The flow rate is based on anticipated dewatering rates and current groundwater elevation information.

**Receiving Water Characteristics:** The receiving water for the construction dewatering discharge is the Flamingo Wash, a concrete-lined channel. The Flamingo Wash is a minor tributary to the Las Vegas Wash, which is the primary wastewater and stormwater drainage outlet for the Las Vegas Valley and surrounding watershed. The shallow groundwater encountered during the construction activities is generally background Flamingo Wash water quality. To reduce sediment loads settling tanks will be used to filter the water prior to discharge to the Wash. Monitoring of the discharge outfalls will ensure that water quality is not degraded. Water quality standards for the beneficial uses designated in NAC 445A.2142, for the Upper Las Vegas Wash, are specified in NAC 445A.2156.

**Site Groundwater:** Within the project area the groundwater elevation is generally quite shallow, approximately 12-25 feet below grade. The local groundwater flow direction is northeast.

**Corrective Actions Sites:** There are three Bureau of Corrective Actions (BCA) remediation sites within a one-mile radius of the facility. The BCA has stated that the dewatering and discharge will not impact, nor be impacted by the remediation projects.

**Well Head and Drinking Water Supply Protection:** The facility is not within 6000’ of a public supply well. A Wellhead Protection Area (WPA) has not been established for this area.

**Proposed Discharge Limits:** Sampling and monitoring requirements are listed below in Table 1.

**Table 1. Discharge Limitations, Sampling and Monitoring Requirements**

Parameters	Units	Discharge Limitations		Monitoring Requirements		
		30-Day Average	Daily Maximum	Sampling Locations	Monitoring Frequency	Monitoring Type
Flow Rate <sup>1</sup>	MGD	9.0	9.0	001, 002	Continuous	Flow meter, calculation
pH <sup>2</sup>	S.U.	6.5 ≤ pH ≤ 9.0		001, 002	Monthly	Discrete
TDS <sup>3</sup>	mg/l	M&R	M&R	001, 002	Monthly	Discrete
TPH <sup>4</sup>	mg/l	M&R	1.0	001, 002	Quarterly	Discrete
VOC <sup>4</sup>	µg/l	M&R	M&R	001, 002	Quarterly	Discrete
Profile I <sup>5</sup>	mg/l	M&R	M&R	001, 002	Quarterly	Discrete

Table Definitions and Footnote Explanations are provided in Table 2.

**Table 2. Table Definitions and Footnote Explanations**

Term/ Footnote	Definitions/ Explanations
MGD	million gallons per day
001	Outfall 001, Jacking Pit discharge outfall to the Flamingo Wash
002	Outfall 002, Receiving Pit discharge outfall to the Flamingo Wash
S.U.	Standard pH units
M&R	Monitor and report
TDS	Total Dissolved Solids
mg/l	milligrams per liter
TPH	Total Petroleum Hydrocarbons, purgeable and extractable, full range C <sub>6</sub> -C <sub>40</sub> .
VOC	Volatile Organic Compounds

µg/l	micrograms per liter
Profile I	All parameters on Nevada Profile I list, including cations, anions, inorganics and metals. Metals shall be total recoverable.
Footnote 1	Monitor continuously and report quarterly the maximum daily discharge for each 30-day DMR reporting period.
Footnote 2	Monitor pH monthly and report quarterly the values obtained for each 30-day DMR reporting period.
Footnote 3	Sample and analyze for TDS monthly and report quarterly the values obtained for each 30-day DMR reporting period.
Footnote 4	Sample and analyze the discharge for TPH and VOC once per quarter. Analyze using EPA Methods 8015B and 624. Report TPH and VOC on separate rows of the quarterly DMR form. For all compounds with detectable results, report the results of each compound separately on the quarterly DMR form.
Footnote 5	Sample and analyze for all Profile I parameters once per quarter. Report all parameters on separate rows of the quarterly DMR form.

**Rationale for Permit Requirements:** The Division has established the monitoring requirements in Table 1 to ensure that water quality is not degraded as a result of project activities.

**Flow:** The rationale for the discharge rate was explained in the Flow section of this fact sheet.

**pH:** 6.5 - 9.0, standard units. pH limits are based on the beneficial uses designated in NAC 445A.2156. Monitor monthly and report quarterly.

**TDS:** M&R. The shallow groundwater with naturally occurring elevated TDS levels would flow to the Wash if it was not intercepted by the dewatering system. Therefore, the TDS standard is not applied to dewatering 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.

**TPH:** 1.0 mg/l. Sample and report quarterly. The limit is the State standard for remediation projects. Groundwater data indicates non detection of hydrocarbons; the sampling is required to ensure that surface water quality is protected.

**VOC:** M&R. Sample and report quarterly. Groundwater data indicates non detection of hydrocarbons; the sampling is required to ensure that surface water quality is protected.

**Profile I:** M&R. The requirement is to sample and report quarterly.

**Schedule of Compliance:** The Permittee shall implement and comply with the provisions of the schedule of compliance after approval by the Administrator, including in said implementation and compliance, any additions or modifications which the Administrator may make in approving the schedule of compliance:

- The Permittee shall achieve compliance with the discharge limitations upon issuance of the permit.
- Prior to the start of construction, or 2 weeks prior to commencing dewatering discharge, **or by MM DD, 2012**, whichever comes first, the Permittee shall submit to the Division, for review and approval, two copies of an **Operations & Maintenance Manual (O&M)**, for the proposed

dewatering and discharge activities. The **O&M** shall include a Dewatering Plan providing dewatering discharge details including discharge routing, methodology and BMPs to be utilized. The **O&M** shall also include a Sampling and Analysis Plan summarizing the monitoring, sampling, analytical, and data reporting procedures for the proposed sampling locations. Before implementing changes to an approved **O&M**, the Permittee shall submit the proposed changes to the Division for review and approval.

- The Permittee shall notify the Division in writing within 14 days of initiating discharge.

**Proposed Determination:** The Division has made the tentative determination to issue the proposed permit for a period of five (5) years.

**Procedures for Public Comment:** The Notice of the Division's intent to issue a NPDES permit for a five-year period, authorizing this facility to discharge to the Flamingo Wash via dewatering wells and the Clark County storm drain system, 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 for a period of thirty (30) days following the date of publication of the public notice in the newspaper. The comment period can be extended at the discretion of the Administrator. The deadline date and time by which all comments are to be submitted (via postmarked mail or time-stamped faxes, e-mails, or hand-delivered items) to the Division is **July 9, 2012, by 5:00 P.M.**

A public hearing on the proposed determination can be requested by the applicant, any affected State, any affected interstate agency, the Regional Administrator 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 determines to be appropriate. All public hearings must be conducted in accordance with NAC 445A.238.

The final determination of the Administrator may be appealed to the State Environmental Commission pursuant to NRS 445A.605.

Prepared by: Jeryl R. Gardner, P.E.  
Date: June 2012