

NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

FACT SHEET

(pursuant to NAC 445A.236)

- Applicant:** Clark County Public Works
500 S. Grand Central Parkway
Las Vegas, NV 89155
- Permit Number:** NV0023922
- Facility Locations:** Flamingo Wash Flood Control Project –I-515 to Nellis Blvd.
City of Las Vegas in Clark County, Nevada
Section 7 T21S R62E
Latitude: 36° 08' 31.2" N Longitude: 115° 04' 40.8" W
- Discharge Outfalls:** Six well points will be established within the Flamingo Wash; all of the well points will combine into a common pipe with one discharge location at Outfall 001.

Outfall 001: 6 wellpoints combined into one header discharge outfall
Latitude: 36° 08' 29.3" N Longitude: 115° 04' 37.5" W

General: Clark County Public Works is proposing flood control channel modifications to an approximately 1.5-mile section of Flamingo Wash, extending approximately from I-515 to Nellis Blvd., in Las Vegas, Nevada. The purpose of the project is to improve flood control protection, prevent scour and erosion and protect two bridges. The project activities will include replacement of the existing earthen channel with a 70-foot wide rectangular, concrete-lined channel and installation of concrete box culverts. Dewatering is required for the excavation and facility upgrades. Approximately six pumping wells will be used at any one time for the dewatering, with a maximum total pumping rate of no more than 250 million gallons per day (MGD). The project is scheduled to begin in January, 2011. The proposed NPDES permit is for a period of five years although the construction work, dewatering and discharge activities are expected to be completed in less than a year.

Flow: The applicant requested a daily maximum dewatering discharge flow rate of 0.250 million gallons per day (MGD) and a 30-day average discharge rate of 0.250 MGD.

Receiving Water Characteristics: The Flamingo Wash is a major tributary to the Las Vegas Wash, the primary wastewater and stormwater drainage outlet for the Las Vegas Valley and surrounding watershed. Settling tanks will be used to settle sediment from the water prior to discharge to the Wash. Monitoring of the combined discharge outfall will ensure that Wash water quality is not adversely impacted and that downstream projects and downstream water users are not adversely impacted by the additional activities.

Site Groundwater: Within the project area the groundwater elevation is approximately 11 feet below ground surface. The local groundwater flow direction is to the southeast.

Corrective Actions Sites: There is one Bureau of Corrective Actions (BCA) remediation site within a one-mile radius of the facility, the Gold Rush Gas & Convenience Store, located approximately ½ mile up-gradient of a portion of the construction project dewatering. The BCA does not expect that the site will be potentially impacted by the dewatering and discharge. Recent groundwater and surface water quality data in the vicinity reveals no elevated concentrations of any contaminants. Monitoring and

sampling will be required to ensure that the BCA remediation projects are not adversely impacted and that downstream water quality is not degraded.

Wellhead and Drinking Water Supply Protection: The application identified no public drinking water supply wells within 6000’ of the site. The construction and discharge sites are not within a wellhead protection area.

Proposed Effluent Limits: Specific sampling and monitoring requirements are listed below in Table I.

Table I. Discharge Limitations, Sampling and Monitoring Requirements

Parameters & Units		Discharge Limitations		Sampling Location	Monitoring Frequency	Monitoring Type
		Daily Max	30-Day Avg			
Discharge Flow Rate ¹	MGD	.250	.250	001	Continuous	Flow meter
pH	S.U.	---	6.5 - 9.0	001	Weekly	Discrete
TDS	mg/l	M&R	---	001	Weekly	Discrete
TPH ²	mg/l	1.0	---	001	Event	Discrete
VOC ²	µg/l	M&R	---	001	Event	Discrete

NOTES:

1. Monitor and report in MGD, the total combined discharge from all wellpoints.
2. Sample and report in the event of a visible sheen or equipment failure; analyze using EPA Methods 8260B and 8015B. Report the full range of hydrocarbons, C6-C40, purgeable and extractable. Report all VOC parameters. If no such event occurs state “none” on DMR form.
 - gpm: gallons per minute
 - M&R: Monitor and Report
 - mg/l: milligrams per liter
 - TDS: Total Dissolved Solids
 - VOC: Volatile Organic Compounds
 - MGD: Million gallons per day
 - S.U.: standard pH units
 - µg/l: micrograms per liter
 - TPH: Total Petroleum Hydrocarbons

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

Flow: The rationale for the 30-day average and daily maximum discharges was explained in the Flow section of this fact sheet.

pH: 6.5 - 9.0, standard units. pH is required monitoring per standards stipulated in NAC 445A.199 for the beneficial uses designated in NAC 445A.198.

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. The limit is based on BCA action levels. The requirement is to sample in the event of a visible sheen or equipment failure in or near the Wash.

VOC: M&R. The requirement is to sample in the event of a visible sheen or equipment failure in or near the Wash.

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 effluent limitations upon issuance of the permit.
- Within 30 days of the permit issue date (**MM DD, 2010**), the Permittee shall submit to the Division, for review and approval, a **Dewatering Discharge Plan** and a **Sampling and Analysis Plan (SAP)** for the proposed dewatering and discharge activities. The Dewatering Plan shall provide dewatering discharge details including discharge routing, methodology and BMPs to be utilized. The **SAP** shall summarize the monitoring, sampling, analytical, and data reporting procedures for all proposed sampling locations. Before implementing changes to an approved Plan, the Permittee shall submit the proposed changes to the Division for review and approval. These plans shall be incorporated into the **Operations and Maintenance (O&M) Manual**.

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 into the Pittman Wash, 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 **MM DD, 2011 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.
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