

NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

FACT SHEET

(pursuant to NAC 445A.236)

Applicant: City of Las Vegas Public Works
400 Stewart Avenue
Las Vegas, NV 89101

Permit Number: NV0023990

Facility Locations: Las Vegas Creek Lateral –Langtry Channel
City of Las Vegas in Clark County, Nevada
Section 30 T20S R61E
Latitude: 36° 10' 46.2" N Longitude: 115° 11' 38.0" W

Discharge Outfalls: Four well points will be established within the Channel; all of the well points will combine into a common pipe with one discharge location at Outfall 001.

Outfall 001: Common header discharge to storm drain drop inlet at West Bonanza Road

Latitude: 36° 10' 38.57" N Longitude: 115° 11' 37.86" W

General: The City of Las Vegas Public Works is proposing improvements to a 1,260-linear foot section of flood control channel located within Langtry Channel (Channel), extending between West Washington Avenue and West Bonanza Road, in Las Vegas, Nevada. The purpose of the project is to improve flood control protection. The project activities will include installing 1,260 linear feet of 18" diameter reinforced concrete pipe (RCP) and reinforced concrete liner in the bottom of the existing concrete-lined flood control channel, storm drain manholes, and concrete box structures within the existing Channel. The RCP will tie into the existing upstream 8' x 5' reinforced concrete box culvert (RCB) at West Washington Avenue, and the existing 6' x 6' RCB downstream of West Bonanza Road. Dewatering will likely be required for the excavation and construction work. Approximately four pumping wells will be used at any one time for the dewatering. The project is scheduled to begin in February, 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 173.6 gallons per minute (gpm), equivalent to 0.250 million gallons per day (MGD).

Receiving Water Characteristics: After initial discharge to a trench adjacent to the Langtry channel, flow will enter a Clark County storm drain drop inlet in West Bonanza Road. From there, the flows are conveyed east under W. Bonanza Road and eventually discharge into the Las Vegas Wash (Wash), the receiving water body. The Wash is 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 storm drain system. Monitoring of the 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 generally quite shallow, approximately 4-9 feet below ground surface. The local groundwater flow direction is southeast.

Corrective Actions Sites: There are two Bureau of Corrective Actions (BCA) remediation sites within a one-mile radius of the facility. These include Unocal SS 7313, located approximately 1 mile down-gradient on Las Vegas Blvd. and, Arco 5313, located approximately 1 mile up-gradient, southeast of the site. The BCA does not expect the remediation sites to be impacted by the proposed project dewatering. Recent data from the on-site boring, B-1, shows non-detect for perchlorate and all other volatile organics. Event-based monitoring and sampling will be required to ensure that none of the BCA remediation projects are adversely impacted and that downstream water quality is not degraded.

Wellhead and Drinking Water Supply Protection: The application identified several community water supply wells within 1-3,000 feet of the site, and the wells are ranked as moderately vulnerable to organic compounds. The wells are unlikely to be impacted by the project dewatering and discharge activities, but sampling for organic compounds is required by the permit to ensure protection. The channel construction and discharge sites are not within a wellhead protection area.

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

Samples taken in compliance with the monitoring requirements specified in Table I. below, shall be collected at the following location:

Outfall 001: Common header discharge to drop inlet under West Bonanza Road:
Latitude 36° 10' 38.57" N Longitude 115° 11' 37.86" W

Water quality shall be limited and monitored by the Permittee as specified below in Table I:

Table I. Discharge Limitations, Sampling and Monitoring Requirements

Parameters	Units	Discharge Limitations		Monitoring Requirements	
		30-Day Average	Daily Maximum	Monitoring Frequency	Monitoring Type
Flow ¹	gpm	173.6	M&R	Continuous	Flow meter
Flow ¹	MGD	M&R	.250	Continuous	Calculate
pH	S.U.	---	6.5 - 9.0	Weekly	Discrete
TDS	mg/l	M&R	M&R	Weekly	Discrete
TPH ²	mg/l	M&R	1.0	Event	Discrete
VOC ²	µg/l	M&R	M&R	Event	Discrete

NOTES:

1. Monitor and report 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.

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 I above to ensure that downstream water quality is not degraded as a result of project activities.

Flow: The rationale for the daily maximum and 30-day average discharge rates 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 Channel.

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

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.
- Prior to the start of construction, or by **February 15, 2011**, whichever comes first, 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 **January 12, 2011 by 5:00 P.M.**

A public hearing on the proposed determination can be requested by the applicant, any affected State, any

CLVPW –Langtry Channel Flood Control Improvements
Permit NV0023990
Fact Sheet
Page 4 of 4

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: December, 2010

P:\BWPC\BWPC Permits\NV and NEV\NEV0023990 CLVPW –Langtry\NV0023990 CLVPW –Langtry Channel FS FD 1210.docx

DRAFT