

NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

FACT SHEET

(pursuant to Nevada Administrative Code 445A.236)

Permittee Name: Clark County Water Reclamation District
5857 E. Flamingo Road
Las Vegas, Nevada 89122

Permit Number: NEV2010516

Location: AWT Membrane and Ozonation Facility
Construction Dewatering
Rochelle Avenue and Telephone Line Road
Las Vegas, Clark County, Nevada 89122
Township 21S, Range 62E., Section 23

Latitude: 36° 06' 50" N

Longitude: 115° 01' 34" W

Wellhead Protection: The proposed discharge is not within a 6000 foot Drinking Water Protection Area (DWPA) around any public water supply well. There is no currently established Wellhead Protection (WHPA) Area for this location

Bureau of Corrective Actions Sites: There are no individual Bureau of Corrective Actions remediation sites within one (1) mile of the proposed discharge. The proposed discharge is within one mile, but outside, of the boundary of the BMI Complex Area of Concern.

General: Clark County Water Reclamation District (CCWRD) plans to initiate construction of a Membrane Treatment and Ozonation Facility, adjacent to the Advanced Water Treatment (AWT) wastewater treatment facility. The proposed construction, located at the junction of Rochelle Avenue and Telephone Line Road, Las Vegas, Clark County, Nevada, will require dewatering of the foundation excavations during construction. CCWRD has proposed the disposal of water removed from the excavations via evaporation and percolation to groundwater in an excavated percolation basin approximately 100 feet from the excavation. The Applicant has also requested use of extracted groundwater for on-site dust control and construction soil compaction. Requested flow limits are 100 gallons per minute (gpm), or 0.14 million gallons per day (MGD). The Applicant holds temporary discharge permit TNEV2011307, allowing discharge of groundwater during initial phases of construction.

Preliminary water quality testing of groundwater encountered in test borings at the site of the proposed structure indicates elevated Total Dissolved Solids and measurable amounts of perchlorate. NDEP believes that extraction of groundwater and percolation of that same groundwater nearby will have no significant impact on either the groundwater or the nearby Las Vegas Wash.

Receiving Water Characteristics: During test borings at the site, groundwater was encountered at 31 feet below ground surface (bgs). Groundwater flow is reported to be toward the south. The shallow groundwater across the Las Vegas Valley is believed to be present primarily as a result of artificial recharge from the cumulative effects of lawn watering, swimming pool leakage, septic tanks, etc. Analytical results provided with the permit application indicate high levels of Total Dissolved Solids (TDS), comprised of significant amounts of chloride and sulfate as would be expected in desert climates. Perchlorate is also present. It is believed the relatively high levels observed are due to evaporation/concentration in the perched artificially recharged groundwater.

Proposed Effluent Limitations and Special Conditions: The discharge to groundwaters of the State of Nevada from the AWT construction dewatering will be limited and monitored according to the following:

Table 1: Dewatering Discharge Limitations

PARAMETER	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS	
	30-Day Average	Daily Maximum	Measurement Frequency	Sample Type
Flow (MGD)	0.140	Monitor & Report	Continuous	Flowmeter
TPH ¹ (mg/L)	---	1.0	Monthly	Discrete
Perchlorate (µg/L)	---	Monitor & Report	Monthly	Discrete
TDS (mg/L)	---	Monitor & Report	Monthly	Discrete
Infiltration Basin Freeboard (feet)	---	>2.0	Weekly	Discrete

MGD: Million gallons per day
 TPH: Total Petroleum Hydrocarbons
 mg/L: milligrams per liter
 µg/L: micrograms per liter
 TDS: Total Dissolved Solids

1. EPA Method 8015B and EPA Method 8260B, extractable and purgable, C6-C40. Summation must meet permit limit.

Schedule of Compliance: The Permittee shall achieve compliance with the effluent limitations upon issuance of the permit.

Rationale for Permit Requirements: The Division's rationale for the proposed monitoring requirements and permit limits are as follows:

- *Flow:* Flow is tracked to assure compliance with the flow limit of 0.14 MGD.

- *Total Petroleum Hydrocarbons:* TPH is monitored to ensure that possibly impacted waters are not commingled with un-impacted groundwater during percolation. Total Petroleum Hydrocarbons are monitored to assess possible shallow groundwater contamination from off-site activities, and to ensure petroleum hydrocarbons from heavy equipment do not enter the infiltration basin.
- *Perchlorate:* Perchlorate was identified in the initial groundwater sample. Perchlorate is monitored to track perchlorate concentrations.
- *Total Dissolved Solids:* Relatively high concentrations of Total Dissolved Solids (TDS) were identified in the initial groundwater sample. TDS is monitored to track TDS concentrations.

Procedures for Public Comment: The Notice of the Division's intent to renew a permit authorizing the facility to discharge extracted shallow groundwater into the groundwater, 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 the public notice. The comment period can be extended at the discretion of the Administrator. The deadline date at the Division for receipt of all comments pertaining to this public notice period is **December 20, 2010 at 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.

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

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Bureau of Water Pollution Control
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