

NEVADA DIVISION OF ENVIRONMENTAL PROTECTION
FACT SHEET
(pursuant to NAC 445A.236)

Permittee Name: Clark County School District
2832 E. Flamingo Road
Las Vegas, NV 89121

Permit Number: NV0023485

Location: Las Vegas Academy
315 7th Street
Las Vegas, Clark County, NV 89101

Latitude: 36° 09' 57"N,
Longitude: 115° 08' 25"W
Township 20S, Range 61E, Section 34

General:

Clark County School District operates Las Vegas Academy, a high school, in Las Vegas, Clark County, Nevada. The school complex includes an auditorium, part of which is constructed below the local water table. Groundwater at the site is encountered at approximately six (6) feet below ground surface; groundwater flow direction is reportedly northeast. Groundwater is collected in a network of slotted pipes, and is transported via gravity away from the building foundation to a wet well. Collected groundwater is pumped from the wet well by two 3-horsepower submersible pumps, which are operated by float-type level controllers. The pumped water is discharged to a sub-grade pipeline to the Clark County storm drain adjacent to the development, and ultimately to the Las Vegas Wash.

Discharge Flow and Characteristics

Discharge is expected to be below 0.10 million gallons per day (MGD) or approximately 70 gallons per minute, which is the requested permit flow limitation. Initial analytical testing of the groundwater indicates the following results. Total Petroleum Hydrocarbons (TPH), Tetrachloroethene, Benzene, Toluene, Ethylbenzene, Xylenes, MTBE, and the analytes assessed by EPA Method 8260 were not detected, with the exceptions of Bromoform (15 µg/l) and Methylene Chloride (11 µg/l). Water quality characteristics were determined to be the following: Total Phosphorus, 0.85 mg/l; Nitrate as N, 2.2 mg/l; Total Dissolved Solids, 2290 mg/l; Chloride, 270 mg/l; and Sulfate, 1100 mg/l. Total Inorganic Nitrogen was not assessed, though no Ammonia was detected in the analyzed sample. The sample was tested for various metals with the following results: Aluminum, 0.34 mg/l, Arsenic, 0.028 mg/l, Barium, 0.11mg/l, Boron, 1.1 mg/l, Calcium, 240 mg/l; Copper, 0.017 mg/l, Fluoride, 1.1 mg/l, Iron, 0.67 mg/l, Magnesium, 160 mg/l; Manganese, 0.063mg/l, Mercury, 0.00047 mg/l, Potassium, 53 mg/l, Selenium, 0.065 mg/l, Sodium, 280 mg/l; and Uranium, 0.12 mg/l.

Receiving Water Characteristics:

The dewatering system discharges into a Clark County stormdrain inlet, which eventually discharges to the Upper Las Vegas Wash. Water quality standards for the Upper Las Vegas Wash are specified in NAC 445A.199. The requirements to maintain existing higher quality waters apply.

Proposed Effluent Limitations and Special Conditions:

| PARAMETER | DISCHARGE LIMITATIONS | MONITORING REQUIREMENTS | |
|--|-----------------------|----------------------------|-------------|
| | Daily Maximum | Measurement Frequency | Sample Type |
| Flow, MGD | 0.1 | Continuous | Flow Meter |
| Total Dissolved Solids (mg/l) | 2400 | Quarterly | Discrete |
| Total Inorganic Nitrogen as N, (mg/L) | 20 | Quarterly | Discrete |
| Total Phosphorus as P (lbs/day) | 1.0* | Quarterly | Discrete |
| Ammonia as N (lbs/day) | 1.0* | Quarterly | Discrete |
| pH (Standard Units) | 6.5 – 9.0 | Quarterly | Discrete |
| Total Petroleum Hydrocarbons (TPH, Modified EPA Method 8015) ¹ , (mg/l) | 1.0 | Semi-Annually ² | Discrete |
| Volatile Organic Compounds (Full Range, plus MTBE Method 8260), (µg/l) | Monitor & Report | Annually ³ | Discrete |

1. Report diesel and gasoline range fractions.
 2. Semi-Annual sampling will be performed in the second and fourth quarters, and results will be submitted with the second and fourth quarter DMRs.
 3. Annual sampling results will be submitted with the fourth quarter DMR.
- * Deminimus load allowed for permit.

Rationale for Permit Requirements:

The monitoring requirements for the site are consistent with the requirements for maintaining higher water quality, as stated in NAC445A.198. Initial samples suggest that the groundwater collected from the facility does not contain significant amounts of phosphorus or ammonia; these parameters have been considered deminimus, and limits have been set at 1.0 lb/day accordingly. The Permittee is required to monitor discharge on quarterly, semi-annual, and annual bases to ensure that the receiving water (Las Vegas Wash) is not degraded from dewatering at the Las Vegas Academy, which has the potential to capture possible offsite groundwater contamination.

Schedule of Compliance:

1. The Permittee shall achieve compliance with the NPDES permit on issuance.
2. Within fourteen (14) days of the permit issuance date, the Permittee shall submit for review a copy of the Operations & Maintenance (O&M) Manual for the Las Vegas Academy dewatering system, prepared in accordance with the Division's WTS-2 guidance: *Minimum Information Required for an Operations and Maintenance Manual*. The manual shall describe the Best Management Procedures (BMPs), which have been employed at the site to minimize the introduction of contaminants/pollutants into the stormdrain. This document shall be wet stamped and signed by a Nevada Professional Engineer (P.E.), and shall be submitted for review to the address below:

Mr. Nadir Sous, Supervisor
Nevada Division of Environmental Protection
Bureau of Water Pollution Control
1771 E. Flamingo Road, Suite 121-A
Las Vegas, NV 89119

A copy of the approved O&M Manual shall also be sent to the address below:

Division of Environmental Protection
Bureau of Water Pollution Control
ATTN: Compliance Coordinator
901 S. Stewart Street, Suite 4001
Carson City, NV 89701-5249

Procedures for Public Comment:

The Notice of the Division's intent to issue an NPDES permit authorizing this facility to discharge to the Las Vegas Wash for a five-year period, 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 **December 12, 2005 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.

Proposed Determination:

The Division has made the tentative determination to issue the proposed NPDES discharge permit for a period of five (5) years

Prepared by: Janine O. Hartley
Staff Engineer II
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