



FACTSHEET
(pursuant to NAC 445A.236)

Permittee Name: CLARK COUNTY REAL PROPERTY MANAGEMENT
500 S GRAND CENTRAL PKWY
LAS VEGAS, NV - 89155

Permit Number: NS2003510

Location: SPRING MOUNTAIN YOUTH CAMP, CLARK
2400 ANGEL PEAK PLACE, LAS VEGAS, NV - 89124
LATITUDE: 36.316667, LONGITUDE: -115.588889
TOWNSHIP: 19S, RANGE: 57E, SECTION: 9 & 10

| Outfall / Well Num | Outfall / Well Name | Location Type | Well Log Num | Outfall City | Outfall State | Outfall Zip | Outfall County | Latitude | Longitude | Receiving Water |
|--------------------|---------------------|--------------------|--------------|--------------|---------------|-------------|----------------|-----------|-------------|-----------------|
| 001 | INFLUENT | Influent Structure | | LAS VEGAS | NV | 89124 | CLARK | 36.316667 | -115.588889 | GROUNDWATER |
| 002 | EFFLUENT | External Outfall | | LAS VEGAS | NV | 89124 | CLARK | 36.316667 | -115.588889 | GROUNDWATER |

General:

The Permittee, Clark County Real Property Management, has applied for the renewal of permit NS2003510 for the Spring Mountain Youth Camp, a juvenile correctional facility located at 2400 Angel Peak Place in Las Vegas, Clark County, Nevada. The facility has an on-site domestic wastewater treatment and disposal system, which consists of a settling (septic) tank, a nitrogen reduction facility (recycle tank), a dosing tank, an Alternating Intermittent Re-circulating Reactor (AIRR), and a subsurface disposal field. Partial nitrogen removal (denitrification) occurs in the recycle tank by contacting a proportioned amount of raw sewage (carbon source) and AIRR effluent (nitrate source). The treated effluent is discharged through the subsurface disposal field under the facility’s football field. The subsurface disposal field is made up of five leach fields, each containing 5 one-foot wide disposal trenches for a total of 25 overall trenches.

Discharge Characteristics:

The discharge consists of treated domestic wastewater. Average values for monitored parameters calculated from concentrations reported in 2015 are listed below.

Biochemical Oxygen Demand (BOD): 8.7 mg/L
Total Suspended Solids (TSS): 6.3 mg/L
Total Nitrogen: 27.7 mg/L
Nitrate: 4.6 mg/L
pH: 7.4 standard units

Receiving Water:

The receiving water is groundwater of the State. The depth to groundwater is reportedly more than 200 feet below ground surface and flows to the north. The permitted discharge is not expected to negatively impact the groundwater.

Summary of Changes From Previous Permit:

Groundwater monitoring requirements have been removed due to a groundwater depth of more than 200

feet below ground surface.

The requirement for the facility to be operated by a Nevada certified grade 3 operator has been changed to a Nevada certified grade 2 operator; this change has been made based on the plant classification and grades of certification in NAC 445A.289 and NAC 445A.290, respectively.

The requirement to electronically submit Discharge Monitoring Reports (DMRs) within 1 year of permit issuance has been added. The Bureau of Water Pollution Control's Nevada NetDMR system is a website that allows for electronic submission of DMRs. By using Nevada NetDMR, Permittees will save time, see a reduction in paperwork burden, and data will automatically error-check and validate the information prior to submission. The system also allows for electronic submittal of attachments and supplemental documentation and provides instant confirmation of submission.

Due to the new naming conventions at the Nevada Division of Environmental Protection (NDEP), Bureau of Water Pollution Control, the permit number has been changed from NEV2003510 to NS2003510. This change does not reflect a change in the type of permit being issued.

Proposed Effluent Limitations:

The discharge shall be limited and monitored by the Permittee as specified below:

WWTP Discharge Limitations Table for Sample Location 001 (Influent) To Be Reported Monthly

| Discharge Limitations | | | | Monitoring Requirements | | | |
|-------------------------|----------------|----------------------------------|---------------------------------|-------------------------|------------|-----------------------|-------------|
| Parameter | Base | Quantity | Concentration | Monitoring Loc | Sample Loc | Measurement Frequency | Sample Type |
| Flow rate | Daily Maximum | <= 14000 Gallons per Day (gal/d) | | Raw Sewage Influent | 001 | Continuous | METER |
| BOD, 5-day | Daily Maximum | | M&R Milligrams per Liter (mg/L) | Raw Sewage Influent | 001 | Monthly | DISCRT |
| Flow rate | 30 Day Average | <= 12000 Gallons per Day (gal/d) | | Raw Sewage Influent | 001 | Continuous | METER |
| BOD, 5-day | 30 Day Average | | M&R Milligrams per Liter (mg/L) | Raw Sewage Influent | 001 | Monthly | DISCRT |
| Solids, total suspended | Daily Maximum | | M&R Milligrams per Liter (mg/L) | Raw Sewage Influent | 001 | Monthly | DISCRT |
| Solids, total suspended | 30 Day Average | | M&R Milligrams per Liter (mg/L) | Raw Sewage Influent | 001 | Monthly | DISCRT |

WWTP Discharge Limitations Table for Sample Location 002 (Effluent) To Be Reported Monthly

| Discharge Limitations | | | | Monitoring Requirements | | | |
|--------------------------------|----------------|----------------------------------|-----------------------------------|-------------------------|------------|-----------------------|----------------------|
| Parameter | Base | Quantity | Concentration | Monitoring Loc | Sample Loc | Measurement Frequency | Sample Type |
| Flow rate | Daily Maximum | <= 14000 Gallons per Day (gal/d) | | Effluent Gross | 002 | Continuous | METER ^[1] |
| BOD, 5-day | 30 Day Average | | <= 30 Milligrams per Liter (mg/L) | Effluent Gross | 002 | Monthly | DISCRT |
| Solids, total suspended | Daily Maximum | | <= 30 Milligrams per Liter (mg/L) | Effluent Gross | 002 | Monthly | DISCRT |
| Solids, total suspended | 30 Day Average | | <= 30 Milligrams per Liter (mg/L) | Effluent Gross | 002 | Monthly | DISCRT |
| Nitrogen, total | Daily Maximum | | M&R Milligrams per Liter (mg/L) | Effluent Gross | 002 | Monthly | DISCRT |
| Nitrogen, total | 30 Day Average | | M&R Milligrams per Liter (mg/L) | Effluent Gross | 002 | Monthly | DISCRT |
| pH, maximum | Daily Maximum | | <= 9.0 Standard Units (SU) | Effluent Gross | 002 | Monthly | DISCRT |
| Flow rate | 30 Day Average | <= 12000 Gallons per Day (gal/d) | | Effluent Gross | 002 | Continuous | METER ^[1] |
| BOD, 5-day | Daily Maximum | | <= 30 Milligrams per Liter (mg/L) | Effluent Gross | 002 | Monthly | DISCRT |
| pH, minimum | Daily Minimum | | >= 6.0 Standard Units (SU) | Effluent Gross | 002 | Monthly | DISCRT |
| Nitrogen, nitrate total (as N) | Daily Maximum | | <= 10 Milligrams per Liter (mg/L) | Effluent Gross | 002 | Monthly | DISCRT |
| Nitrogen, nitrate total (as N) | 30 Day Average | | <= 10 Milligrams per Liter (mg/L) | Effluent Gross | 002 | Monthly | DISCRT |

Notes (WWTP Discharge Limitations Table):

1. Effluent pump station

Rationale for Permit Requirements:

Flow rate is limited based on the treatment capacity and the requested flow limit in the permit renewal application.

Total nitrogen and nitrate are limited to prevent degradation of the receiving water.

BOD, TSS, and pH are limited based on secondary treatment standards.

Special Conditions:

Substantial compliance with the current permit is a condition of permit renewal.

SA – Special Approvals / Conditions Table

| |
|---|
| There are no Special Approval / Condition items |
|---|

Flow:

Daily Maximum Flow Rate \leq 14,000 gpd

30-Day Average Flow Rate \leq 12,000 gpd

Corrective Action Sites:

There are three Bureau of Corrective Actions (BCA) remediation sites located within a one-mile radius of the facility. The BCA has indicated that it does not anticipate the permitted discharge activity to affect remediation activities at these sites.

Wellhead Protection Program:

The facility is not located within a Drinking Water Protection Area or a Wellhead Protection Area.

Schedule of Compliance:

SOC – Schedule of Compliance Table

| Item # | Description | Due Date |
|--------|---|------------|
| 1 | The Permittee shall submit two copies of an updated Operations and Maintenance (O&M) Manual to the Division. The O&M Manual shall be prepared in accordance with guidance document <i>WTS-2: Minimum Information Required for an Operation and Maintenance Manual for a Wastewater Treatment Plant</i> . If the Permittee determines that no updates to the O&M Manual are necessary, the Permittee shall submit, in lieu of an updated O&M Manual, a letter to the Division stating that no changes to the existing O&M Manual have been made. | 11/28/2016 |
| 2 | Within 1 year of permit issuance, all Discharge Monitoring Reports shall be submitted electronically through the Nevada NetDMR website (https://netdmr.ndep.nv.gov/netdmr/public/home.htm). | 8/1/2017 |

Deliverable Schedule:

DLV– Deliverable Schedule for Reports, Plans, and Other Submittals

| Item # | Description | Interval | First Scheduled Due Date |
|--------|---------------------------------------|-----------|--------------------------|
| 1 | Quarterly Discharge Monitoring Report | Quarterly | 10/28/2016 |
| 2 | Annual Report | Annually | 1/28/2017 |

Procedures for Public Comment:

The Notice of the Division's intent to issue a permit authorizing the facility to discharge to groundwater of the State of Nevada 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 until 5:00 P.M. **7/30/2016**, a period of 30 days following the date of the public notice. The comment period can be extended at the discretion of the Administrator.

A public hearing on the proposed determination can be requested by the applicant, any affected State, any affected interstate agency, the Regional Administrator of EPA Region IX 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 determined to be appropriate. All public hearings must be conducted to 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 / re-issue the proposed 5-year permit.

Prepared by: **Alan Pineda**

Date: **6/22/2016**

Title: **Staff I Associate Engineer**