



**FACTSHEET**  
**(pursuant to NAC 445A.236)**

**Permittee Name:** US ARMY RESERVE 63D DIV (R)

230 RT JONES RD  
MOUNTAIN VIEW, CA 94043

**Permit Number:** NS2010504

**Permit Type:** GROUNDWATER DISCHARGE

**Designation:** GROUNDWATER

**New/Existing:** EXISTING

**Location:** USAR CENTER 63 PACKAGE WASTEWATER TREATMENT PLANT, CLARK  
PARCEL # 191-19-501-001, SLOAN, NV 89045  
LATITUDE: 35.9404, LONGITUDE: -115.1979  
TOWNSHIP: 23 S, RANGE: 61 E, SECTION: 19

| Outfall / Well Num | Outfall / Well Name | Location Type    | Well Log Num | Latitude | Longitude | Receiving Water |
|--------------------|---------------------|------------------|--------------|----------|-----------|-----------------|
| 001                | INFLUENT            | Internal Outfall |              | 35.9403  | -115.1978 | N/A             |
| 002                | EFFLUENT            | External Outfall |              | 35.9404  | -115.1977 | GROUNDWATER     |
| 003                | NORTH LEACH FIELD   | External Outfall |              | 35.9404  | -115.1979 | GROUNDWATER     |
| 004                | SOUTH LEACH FIELD   | External Outfall |              | 35.9395  | -115.1976 | GROUNDWATER     |

**Permit History/Description of Proposed Action**

The Permittee, United States Army Reserve 63D Division, has applied for the renewal of groundwater discharge permit NS2010504 for their wastewater treatment plant at the training center located in Sloan, Clark County, Nevada. The Permittee proposes to continue discharging tertiary treated wastewater to groundwater of the State via infiltration through two (2) leach fields.

The permit was initially issued on May 4, 2010, and expired on May 3, 2015; the permit has been administratively continued since.

**Facility Overview**

The Permittee owns and operates a MAR-Wood activated sludge package treatment plant which receives wastewater generated from the training center’s lavatory sinks, water closets, shower stalls, kitchen fixtures, and janitorial mop sinks. The treatment plant also receives pre-treated (via a sand-oil interceptor) wastewater from the shop floor drains and the vehicle wash pad. No residential housing units will be served and no industrial wastewater will be discharged to the treatment plant.

The plant consists of a lift station, a trash rack (bar screen), a surge tank/equalization basin, anoxic zone (denitrifying), three extended aeration compartments, three air supply blowers, and a clarifier. Disposal of the treated effluent is via two (2) leach fields; one on the north end of the facility and another located on the south end.

### **Outfall Summary**

Outfall 001 – This outfall is for the raw sewage (influent) entering the wastewater treatment plant.

Outfall 002 – This outfall is for the discharge of treated effluent to the leach fields.

Outfall 003 – This outfall is for the leach field located on the north side of the facility.

Outfall 004 – This outfall is for the leach field located on the south side of the facility.

### **Facility Upgrades since last issued permit**

In 2014 / 2015, the Permittee constructed Phase II of the wastewater treatment plant. Phase II included the addition of two (2) 5,000-gallon precast concrete aeration basins, a 5,000-gallon precast concrete flow equalization chamber, an ultrasonic meter in the influent force main, and a second leach field. Phase II expanded the existing 7,500 gallons per day (gpd) facility to 15,000 gpd.

### **Solids Handling**

Waste activated sludge is stored in an aerated digester compartment and hauled by a pumper truck to the Apex regional landfill.

### **Effluent Management and Reuse**

Treated effluent is not currently used for any reuse activities nor is the Permittee proposing to use the treated effluent for future reuse activities.

### **Design Flow (and basis) and Measurement & Current Capacity**

Phase II of the wastewater treatment plant was designed with an influent peak hourly, and average, flow design of 11 gallons per minute (gpm), equivalent to 0.0158 million gallons per day (MGD). The previous permit included a 30-day average influent flow limit of 7,500 gpd, equivalent to 0.0075 MGD, based on Phase I. The previous permit also required the Permittee monitor and report the daily maximum influent flow rate. The proposed permit replaces the 30-day average influent flow limit of 0.0075 MGD with the requirement to monitor and report. The daily maximum influent flow limit has been changed from monitor and report to 0.008856 MGD, per the Permittee's request.

The long-term average influent flow rate, from 2019 to 2023, was 0.003 MGD. There was one exceedance of the 30-day average influent flow limit of 0.0075 MGD which occurred in July of 2019.

### **Pretreatment Program**

The Permittee is not required to develop an approved pretreatment program since the facility has no industrial users and the permitted discharge is less than 5 MGD.

### **Operations & Maintenance (O&M) Manual status**

The facility's O&M Manual was last reviewed and approved in 2013. The Technical, Compliance, and Enforcement Branch of the Bureau of Water Pollution Control requires O&M Manuals be updated every two (2) permit cycles which equates to every ten (10) years. Therefore, the Permittee will need to submit an updated O&M Manual by **January 1, 2025**.

### **Effluent Characterization**

The wastewater treatment plant discharges tertiary treated effluent.

Nevada State Network Discharge Monitoring Report (NetDMR) data, as reported from the year 2019 to 2023, was reviewed as part of the permit drafting process. There were 19 reported exceedances for the 30-day average and daily maximum total nitrogen limit of 10 mg/L; the last exceedance was in October of 2023 and was due to low influent flow. There were two (2) exceedances of the daily maximum total suspended solids (TSS) limit of 45 mg/L; the last exceedance was in June of 2021. There were three (3) exceedances of the 30-day average TSS limit of 30 mg/L; the last exceedance was in June of 2021. There was one (1) exceedance of the 30-day average 5-day biochemical oxygen demand (BOD5) limit of 30

mg/L; this exceedance occurred in July of 2023 and was due to equipment malfunction. There was one (1) exceedance of the quarter average and quarter maximum total petroleum hydrocarbons (TPH) limit of 1.0 mg/L; this exceedance occurred in the first quarter of 2021.

**Pollutants of Concern**

Pollutants of concern are any pollutants, or parameters, that are believed to be present in the discharge and could affect or alter the physical, chemical, or biological conditions of the receiving water. Common pollutants of concern for wastewater treatment plants that do not use the treated effluent for reuse are total nitrogen, TSS, BOD5, and pH. An additional pollutant of concern is TPH from the shop floor drains and vehicle wash pad.

**Receiving Water**

Receiving water is to groundwater of the State. Depth to groundwater is more than 500 feet below ground surface.

**Compliance History**

The facility was considered to be in substantial compliance during the 2019 to 2023 reporting period.

**Proposed Effluent Limitations**

The Permittee is required to meet the following permit limits:

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

| Parameter               | Discharge Limitations |  |                                 | Monitoring Requirements |            |                       |                      |
|-------------------------|-----------------------|--|---------------------------------|-------------------------|------------|-----------------------|----------------------|
|                         | Base                  | Quantity                                     | Concentration                   | Monitoring Loc          | Sample Loc | Measurement Frequency | Sample Type          |
| Flow rate               | Daily Maximum         | <= 0.008856 Million Gallons per Day (Mgal/d) |                                 | Raw Sewage Influent     | 001        | Continuous            | METER <sup>[1]</sup> |
| Flow rate               | 30 Day Average        | M&R Million Gallons per Day (Mgal/d)         |                                 | Raw Sewage Influent     | 001        | Continuous            | METER <sup>[1]</sup> |
| 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               |
| BOD, 5-day              | Daily Maximum         |  | M&R Milligrams per Liter (mg/L) | Raw Sewage Influent     | 001        | Monthly               | DISCRT               |
| BOD, 5-day              | 30 Day Average        |  | M&R Milligrams per Liter (mg/L) | Raw Sewage Influent     | 001        | Monthly               | DISCRT               |

Notes (WWTP Discharge Limitations Table):

1. Lift station pumping time or flow meter.

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

| Discharge Limitations |                                |  |               | Monitoring Requirements   |            |                       |                       |
|-----------------------|--------------------------------|--|---------------|---------------------------|------------|-----------------------|-----------------------|
| Parameter             | Base                           | Quantity   | Concentration | Monitoring Loc            | Sample Loc | Measurement Frequency | Sample Type           |
| Flow rate             | Rolling Average <sup>[1]</sup> | M&R<br>Million<br>Gallons<br>per Day<br>(Mgal/d) |               | Raw<br>Sewage<br>Influent | 001        | Annual                | CALCTD <sup>[2]</sup> |

## Notes (WWTP Discharge Limitations Table):

1. Rolling annual average.
2. The rolling annual average flow rate shall be calculated using the four (4) most recent reporting periods (quarters).

### 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           |
| pH, maximum                       | Daily Maximum           |          | <= 8.5 Standard Units (SU)        | Effluent Gross          | 002        | Monthly               | DISCRT                |
| pH, minimum                       | Daily Minimum           |          | >= 6.5 Standard Units (SU)        | Effluent Gross          | 002        | Monthly               | DISCRT                |
| Nitrogen, total                   | 30 Day Average          |          | M&R Milligrams per Liter (mg/L)   | Effluent Gross          | 002        | Monthly               | DISCRT                |
| Nitrogen, total                   | Daily Maximum           |          | <= 10 Milligrams per Liter (mg/L) | Effluent Gross          | 002        | Monthly               | DISCRT                |
| Solids, total suspended           | Daily Maximum           |          | <= 45 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                |
| Solids, suspended percent removal | Monthly Average Minimum |          | >= 85 Percent (%)                 | Effluent Gross          | 002        | Monthly               | CALCTD <sup>[1]</sup> |
| BOD, 5-day                        | Daily Maximum           |          | <= 45 Milligrams per Liter (mg/L) | Effluent Gross          | 002        | Monthly               | DISCRT                |
| BOD, 5-day                        | 30 Day Average          |          | <= 30 Milligrams per Liter (mg/L) | Effluent Gross          | 002        | Monthly               | DISCRT                |
| BOD, 5-day, percent removal       | Monthly Average Minimum |          | >= 85 Percent (%)                 | Effluent Gross          | 002        | Monthly               | CALCTD <sup>[1]</sup> |

#### Notes (WWTP Discharge Limitations Table):

1. Calculated as the difference between the influent concentration (the calculated 30-day average) and the effluent concentration (the calculated 30-day average).

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

| Discharge Limitations                        |               |          |                                  | Monitoring Requirements |            |                       |             |
|--|---------------|----------|----------------------------------|-------------------------|------------|-----------------------|-------------|
| Parameter                                    | Base          | Quantity | Concentration                    | Monitoring Loc          | Sample Loc | Measurement Frequency | Sample Type |
| Hydrocarbons, total petroleum <sup>[1]</sup> | Daily Maximum |          | <= 1 Milligrams per Liter (mg/L) | Effluent Gross          | 002        | Quarterly             | DISCRT      |

## Notes (WWTP Discharge Limitations Table):

1. Full range Purge & Extract - 8015B

**WWTP Discharge Limitations Table for Sample Location 002 (Effluent) To Be Reported Once During The Permit Term**

| Discharge Limitations                           |               |          |                                      | Monitoring Requirements |            |                       |             |
|---|---------------|----------|--------------------------------------|-------------------------|------------|-----------------------|-------------|
| Parameter                                       | Base          | Quantity | Concentration                        | Monitoring Loc          | Sample Loc | Measurement Frequency | Sample Type |
| Alkalinity, bicarbonate (as CaCO <sub>3</sub> ) | Daily Maximum |          | M&R Milligrams per Liter (mg/L)      | Effluent Gross          | 002        | Once Per Permit Term  | DISCRT      |
| Alkalinity, total (as CaCO <sub>3</sub> )       | Daily Maximum |          | M&R Milligrams per Liter (mg/L)      | Effluent Gross          | 002        | Once Per Permit Term  | DISCRT      |
| Aluminum, total (as Al) <sup>[1]</sup>          | Daily Maximum |          | <= 0.2 Milligrams per Liter (mg/L)   | Effluent Gross          | 002        | Once Per Permit Term  | DISCRT      |
| Antimony, total (as Sb) <sup>[1]</sup>          | Daily Maximum |          | <= 0.006 Milligrams per Liter (mg/L) | Effluent Gross          | 002        | Once Per Permit Term  | DISCRT      |
| Arsenic, total (as As) <sup>[1]</sup>           | Daily Maximum |          | <= 0.01 Milligrams per Liter (mg/L)  | Effluent Gross          | 002        | Once Per Permit Term  | DISCRT      |
| Barium, total (as Ba) <sup>[1]</sup>            | Daily Maximum |          | <= 2 Milligrams per Liter (mg/L)     | Effluent Gross          | 002        | Once Per Permit Term  | DISCRT      |
| Beryllium, dissolved (as Be)                    | Daily Maximum |          | <= 0.004 Milligrams per Liter (mg/L) | Effluent Gross          | 002        | Once Per Permit Term  | DISCRT      |
| Cadmium, dissolved (as Cd)                      | Daily Maximum |          | <= 0.005 Milligrams per Liter (mg/L) | Effluent Gross          | 002        | Once Per Permit Term  | DISCRT      |
| Calcium, total (as Ca) <sup>[1]</sup>           | Daily Maximum |          | M&R Milligrams per Liter (mg/L)      | Effluent Gross          | 002        | Once Per Permit Term  | DISCRT      |
| Chloride (as Cl)                                | Daily Maximum |          | <= 400 Milligrams per Liter (mg/L)   | Effluent Gross          | 002        | Once Per Permit Term  | DISCRT      |
| Chromium, total (as Cr) <sup>[1]</sup>          | Daily Maximum |          | <= 0.1 Milligrams per Liter (mg/L)   | Effluent Gross          | 002        | Once Per Permit Term  | DISCRT      |
|   |               |          | <= 1                                 |                         |            |                       |             |



**WWTP Discharge Limitations Table for Sample Location 002 (Effluent) To Be Reported Once During The Permit Term**

| Discharge Limitations                    |               |          |                                      | Monitoring Requirements |            |                       |             |
|--|---------------|----------|--------------------------------------|-------------------------|------------|-----------------------|-------------|
| Parameter                                | Base          | Quantity | Concentration                        | Monitoring Loc          | Sample Loc | Measurement Frequency | Sample Type |
| Copper, dissolved (as Cu)                | Daily Maximum |          | Milligrams per Liter (mg/L)          | Effluent Gross          | 002        | Once Per Permit Term  | DISCRT      |
| Fluoride, total (as F)                   | Daily Maximum |          | <= 4 Milligrams per Liter (mg/L)     | Effluent Gross          | 002        | Once Per Permit Term  | DISCRT      |
| Iron, total (as Fe) <sup>[1]</sup>       | Daily Maximum |          | <= 0.6 Milligrams per Liter (mg/L)   | Effluent Gross          | 002        | Once Per Permit Term  | DISCRT      |
| Lead, dissolved (as Pb)                  | Daily Maximum |          | <= 0.015 Milligrams per Liter (mg/L) | Effluent Gross          | 002        | Once Per Permit Term  | DISCRT      |
| Magnesium, total (as Mg) <sup>[1]</sup>  | Daily Maximum |          | <= 150 Milligrams per Liter (mg/L)   | Effluent Gross          | 002        | Once Per Permit Term  | DISCRT      |
| Manganese, total (as Mn) <sup>[1]</sup>  | Daily Maximum |          | <= 0.1 Milligrams per Liter (mg/L)   | Effluent Gross          | 002        | Once Per Permit Term  | DISCRT      |
| Mercury, dissolved (as Hg)               | Daily Maximum |          | <= 0.002 Milligrams per Liter (mg/L) | Effluent Gross          | 002        | Once Per Permit Term  | DISCRT      |
| Nitrite plus nitrate total 1 det. (as N) | Daily Maximum |          | <= 10 Milligrams per Liter (mg/L)    | Effluent Gross          | 002        | Once Per Permit Term  | DISCRT      |
| Nitrogen, total                          | Daily Maximum |          | <= 10 Milligrams per Liter (mg/L)    | Effluent Gross          | 002        | Once Per Permit Term  | DISCRT      |
| pH, maximum                              | Daily Maximum |          | <= 8.5 Standard Units (SU)           | Effluent Gross          | 002        | Once Per Permit Term  | DISCRT      |
| pH, minimum                              | Daily Minimum |          | >= 6.5 Standard Units (SU)           | Effluent Gross          | 002        | Once Per Permit Term  | DISCRT      |
| Potassium, total (as K) <sup>[1]</sup>   | Daily Maximum |          | M&R Milligrams per Liter (mg/L)      | Effluent Gross          | 002        | Once Per Permit Term  | DISCRT      |

**WWTP Discharge Limitations Table for Sample Location 002 (Effluent) To Be Reported Once During The Permit Term**

| Discharge Limitations           |               |          |                                      | Monitoring Requirements |            |                       |             |
|---------------------------------|---------------|----------|--------------------------------------|-------------------------|------------|-----------------------|-------------|
| Parameter                       | Base          | Quantity | Concentration                        | Monitoring Loc          | Sample Loc | Measurement Frequency | Sample Type |
| Selenium, dissolved [as Se]     | Daily Maximum |          | <= 0.05 Milligrams per Liter (mg/L)  | Effluent Gross          | 002        | Once Per Permit Term  | DISCRT      |
| Silver, total (as Ag) [1]       | Daily Maximum |          | <= 0.1 Milligrams per Liter (mg/L)   | Effluent Gross          | 002        | Once Per Permit Term  | DISCRT      |
| Sodium, total (as Na)[1]        | Daily Maximum |          | M&R Milligrams per Liter (mg/L)      | Effluent Gross          | 002        | Once Per Permit Term  | DISCRT      |
| Sulfate, total (as SO4)         | Daily Maximum |          | <= 500 Milligrams per Liter (mg/L)   | Effluent Gross          | 002        | Once Per Permit Term  | DISCRT      |
| Thallium, total (as Tl)[1]      | Daily Maximum |          | <= 0.002 Milligrams per Liter (mg/L) | Effluent Gross          | 002        | Once Per Permit Term  | DISCRT      |
| Solids, total dissolved         | Daily Maximum |          | <= 1000 Milligrams per Liter (mg/L)  | Effluent Gross          | 002        | Once Per Permit Term  | DISCRT      |
| Uranium, natural, total         | Daily Maximum |          | <= 0.01 Milligrams per Liter (mg/L)  | Effluent Gross          | 002        | Once Per Permit Term  | DISCRT      |
| Cyanide, weak acid, dissociable | Daily Maximum |          | <= 0.2 Milligrams per Liter (mg/L)   | Effluent Gross          | 002        | Once Per Permit Term  | DISCRT      |
| Zinc, dissolved (as Zn)         | Daily Maximum |          | <= 5 Milligrams per Liter (mg/L)     | Effluent Gross          | 002        | Once Per Permit Term  | DISCRT      |

Notes (WWTP Discharge Limitations Table):

1. Analysis shall be for the dissolved fraction.

### NS OTHER - Discharge Limitations Table for Sample Location 003 (North Leach Field) To Be Reported Quarterly

| Discharge Limitations                     |                  |   |               | Monitoring Requirements |            |                       |             |
|---|------------------|---|---------------|-------------------------|------------|-----------------------|-------------|
| Parameter                                 | Base             | Quantity  | Concentration | Monitoring Loc          | Sample Loc | Measurement Frequency | Sample Type |
| Outfall observation, visual, y/n response | Positive Results | M&R<br>Pass=0<br>Fail=1<br>(pass/fail) <sup>[1]</sup> |               | See Footnote            | 003        | Quarterly             | VISUAL      |

#### Notes (NS OTHER - Discharge Limitations Table):

1. Report '0' as 'Pass' if surfacing, damages, or leaks were not observed during the visual inspection of the leach field. Report '1' as 'Fail' if surfacing, damages, or leaks were observed during the during the visual inspection of the leach field.

**NS OTHER - Discharge Limitations Table for Sample Location 004 (South Leach Field) To Be Reported Quarterly**

| Discharge Limitations                     |                  |   |               | Monitoring Requirements |            |                       |             |
|---|------------------|---|---------------|-------------------------|------------|-----------------------|-------------|
| Parameter                                 | Base             | Quantity  | Concentration | Monitoring Loc          | Sample Loc | Measurement Frequency | Sample Type |
| Outfall observation, visual, y/n response | Positive Results | M&R<br>Pass=0<br>Fail=1<br>(pass/fail) <sup>[1]</sup> |               | See Footnote            | 004        | Quarterly             | VISUAL      |

Notes (NS OTHER - Discharge Limitations Table):

- Report '0' as 'Pass' if surfacing, damages, or leaks were not observed during the visual inspection of the leach field. Report '1' as 'Fail' if surfacing, damages, or leaks were observed during the visual inspection of the leach field.

**Summary of Changes From Previous Permit**

The 30-day average influent flow rate has been changed from 0.0075 MGD to monitor and report.

The daily maximum influent flow rate has been changed from monitor and report to 0.008856 MGD.

The proposed permit establishes the requirement to sample the influent for BOD5 and TSS.

The proposed permit establishes the requirement to calculate the percent removal for BOD5 and TSS.

The proposed permit changes the daily minimum and daily maximum pH limits from 6.0 standard units (S.U.) and 9.0 S.U. to 6.5 S.U. and 8.5 S.U., respectively.

The proposed permit removes the 30-day average reporting requirement for TPH.

The proposed permit removes the 30-day average limit of 10 mg/L for total nitrogen.

The proposed permit establishes the requirement to sample for Profile I pollutants once during the permit term.

The proposed permit establishes the requirement to report the rolling annual average influent flow rate.

Outfall 003 for the leach field located on the north side of the facility has been added.

Outfall 004 for the leach field located on the south side of the facility has been added.

Due to new naming conventions at the Nevada Division of Environmental Protection (henceforth the Division), Bureau of Water Pollution Control, the permit number has been changed from NEV2010504 to NS2010504. This change does not reflect a change in the type of permit being issued.

**Technology Based Effluent Limitations**

Technology based effluent limitations (TBELs) are required, as promulgated, by the United States Environmental Protection Agency (EPA) for Publicly Owned Treatment Works (POTWs). The following limits are based on secondary treatment standards, as allowed by the Code of Federal Regulations (CFR) Title 40 section 133, and which have been adopted by the state of Nevada:

- BOD5: The daily maximum is limited to 45 mg/L and the 30-day average is limited to 30 mg/L.
- TSS: The daily maximum is limited to 45 mg/L and the 30-day average is limited to 30 mg/L.

The following performance standards for POTWs with secondary treatment standards have been included in the permit:

- Monthly average minimum percent removal for BOD<sub>5</sub> ≥ 85%
- Monthly average minimum percent removal for TSS ≥ 85%

### **Water Quality Based Effluent Limitations**

Water quality based effluent limitations are not applicable to this permit.

### **Proposed Water Quality Based Effluent Limits (monthly/weekly/daily)**

Water quality based effluent limitations are not applicable to this permit.

### **Basis for Effluent Limitations**

The requirement to monitor the effluent for Profile I pollutants once during the permit term has been established to evaluate the quality of the effluent and determine whether the effluent has potential to impact the receiving water. Although cyanide and uranium are not expected to be present in the effluent, the proposed permit requires the Permittee sample these constituents once during the permit term as they are included in the Profile I list and they have not been sampled for before.

There are currently no specific water quality standards that have been formally adopted by the State for groundwater. However, the Division has the discretion to implement effluent limitations outside water quality standards per Nevada Administrative Code (NAC) 445A.243, which states, "In establishing an effluent limitation to carry out the policy of this State set forth in NRS 445A.305, consideration must be given to, but is not limited by, the following:... (2) the need for standards that specify by chemical, physical, biological or other characteristics the extent to which pollution by various substances will not be tolerated." The constituents listed in Profile I have been vetted by the Division and have been included in groundwater discharge permits for many years as a means of regulating groundwater quality. Per Nevada Revised Statute (NRS) 445A.490, "No permit may be issued which authorizes any discharge or injection of fluids through a well into any waters of the State:... (3) which would result in the degradation of existing or potential underground sources of drinking water."

Some wastewater treatment processes can increase or decrease wastewater pH; therefore, monthly monitoring for pH is included to assess compliance with effluent limits of 6.5 S.U. as a daily minimum and 8.5 S.U. as a daily maximum. As the Profile I pH limits are more stringent than the secondary treatment limits of 9.0 S.U. and 6.0 S.U., the Profile I limits for pH have been implemented.

### **Other Required Water Quality Monitoring:**

The proposed permit retains the requirement to sample for total petroleum hydrocarbons (TPH) once each quarter due to the potential for the wastewater to contain TPH from the shop floor drains and the vehicle wash pad. However, the proposed permit removes the 30-day average reporting requirement for TPH as a 30-day average cannot be calculated if a sample is only collected once every three months.

The proposed permit establishes the requirement to conduct quarterly inspections for each leach field. Inspections of the leach field are required to determine if the fields are operating correctly.

The proposed permit retains the requirement to sample for total nitrogen each month to assess the performance of the facility and to determine whether the effluent has potential to impact the receiving water. However, to keep consistent with other similarly permitted facilities, the proposed permit replaces the 30-day average limit for total nitrogen with a monitor and report requirement.

The requirement to report the rolling annual average influent flow rate has been added to acquire additional flow information of the facility and to ensure the facility is not reaching its design capacity.

### **Anti-backsliding**

To prevent backsliding, effluent limitations in a reissued permit are required to be as stringent as those in the previous permit, with some exceptions.

The previous permit included a 30-day average influent flow limit of 0.0075 MGD for Outfall 001. Since the

last permit was issued, the facility has undergone an expansion and now the facility's influent peak hourly, and average, flow design is 0.0158 MGD. The submitted renewal application requested a daily maximum influent flow limit of 0.008856 MGD. Therefore, the proposed permit establishes a daily maximum influent flow limit of 0.00856 MGD and replaces the 30-day average flow limit with the requirement to monitor and report.

The previous permit included a 30-day average TPH limit of 1.0 mg/L and required a sample be taken once each quarter. However, a 30-day average cannot be calculated from a quarterly sample. The proposed permit retains the daily maximum TPH limit of 1.0 mg/L; therefore, the removal of the requirement to report the 30-day average TPH concentration will not result in the relaxation of the effluent limit.

The previous permit included a 30-day average total nitrogen limit of 10.0 mg/L. To keep consistent with other similarly permitted facilities, the proposed permit replaces the 30-day average limit for total nitrogen with the requirement to monitor and report. However, the proposed permit retains the daily maximum total nitrogen limit of 10.0 mg/L; therefore, the removal of the 30-day average limit for total nitrogen will not result in the relaxation of the effluent limit.

**Antidegradation**

The Division has developed an antidegradation regulation that is applied on a statewide basis, and which meets the statutory requirements of Nevada’s water pollution control law found at NRS 445A.520 and NRS 445A.565 and is consistent with the federal antidegradation policy found at 40 CFR § 131.12. The objective of the Division’s antidegradation regulation is to prevent degradation of Nevada’s surface waters and maintain the unique attributes and special characteristics and water quality associated with high-quality waters.

As this permit is for discharges to groundwater, and not surface water, the new antidegradation rule is not applicable. There are currently no specific water quality standards that have been formally adopted by the State for groundwater; however, data reviewed during the renewal process does not indicate the potential for degradation of the groundwater from the reclaimed water discharged within the compliance limits of the proposed permit.

**Special Conditions**

See the Special Approvals / Conditions Table below.

SA – Special Approvals / Conditions Table

| Item # | Description  |
|--------|--|
| 1      | The Permittee shall continue to submit discharge monitoring reports (DMRs) through the NetDMR system <a href="https://netdmr.ndep.nv.gov/netdmr/public/home.htm">https://netdmr.ndep.nv.gov/netdmr/public/home.htm</a> . |

**Discharges From Future Outfalls/ Planned Facility Changes**

The Permittee does not anticipate the addition of any future outfalls, or any planned facility changes, at this time.

**Corrective Action Sites**

There are no active Bureau of Corrective Action sites within a one-mile radius of the discharge location.

**Wellhead Protection Program**

There are three (3) Public Water System (PWS) Wells located near the wastewater treatment plant. The closest well is located approximately 970 feet to the southeast of the facility. The other two (2) wells are located approximately 1,613 feet to the southwest and 3,500 feet to the southeast, respectively. The facility is not located within a Wellhead protection Area, which represents an approximate 10-year capture zone of a well. The facility is located within a Drinking Water Protection Area, which is defined as a 3,000-foot radius around a PWS well. The discharge is not anticipated to affect any PWSs due to the distance from

the facility to the nearest well.

**Schedule of Compliance:**

SOC – Schedule of Compliance Table

| Item # | Description  | Due Date |
|--------|--|----------|
| 1      | The Permittee shall submit two copies (one electronic and one hard copy) of an updated Operation and Maintenance (O&M) Manual to the Division for review and approval. The manual shall be prepared in accordance with the Division’s WTS-2 guidance document: <i>Minimum Information Required for an Operation and Maintenance Manual</i> . | 1/1/2025 |



**Deliverable Schedule:**

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

| Item # | Description    | Interval  | First Scheduled Due Date |
|--------|----------------|-----------|--------------------------|
| 1      | Quarterly DMRs | Quarterly | 1/28/2025                |
| 2      | Annual DMRs    | Annually  | 1/28/2025                |

**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 mailed to interested persons on our mailing list and will be posted on our website at <https://ndep.nv.gov/posts>. Anyone wishing to comment on the proposed permit can do so in writing until 5:00 P.M. **9/30/2024**, 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 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/re-issue the proposed 5-year permit.

Prepared by: **Bonnie Hartley**

Date: **8/28/2024**

Title: **Staff II, Associate Engineer**