



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

**Permittee Name:** NPS LAKE MEAD  
  
601 NEVADA WAY  
BOULDER CITY, NV 89005

**Permit Number:** NS0050011

**Permit Type:** GROUNDWATER DISCHARGE

**Designation:** GROUNDWATER

**New/Existing:** EXISTING

**Location:** NPS - BOULDER BEACH WASTEWATER TREATMENT SYSTEM, CLARK  
FLYCATCHER ROAD, BOULDER BEACH, NV 89005  
LATITUDE: 36.053056, LONGITUDE: -114.8250  
TOWNSHIP: 22S, RANGE: 64E, SECTION: 09, 10

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Latitude	Longitude	Receiving Water
001	INFLUENT METER (MAIN LIFT STATION)	Internal Outfall		36.043611	-114.807222	TREATMENT PONDS
002	CONCRETE LINED PORTABLE WASTE RECEIVING BASIN	Internal Outfall		36.053333	-114.825278	TREATMENT PONDS
003	SUM OF TOTAL FLOW RECEIVED	Sum		36.053056	-114.8250	TREATMENT PONDS
004	RAPID INFILTRATION BASINS	External Outfall		36.051944	-114.823056	GROUNDWATER
005	MONITORING WELL	Monitoring Well		36.051944	-114.823056	GROUNDWATER

**Permit History/Description of Proposed Action**

The Permittee, U. S. National Park Service, has applied for the renewal of Permit NS0050011 for the Boulder Beach Wastewater Treatment System (BBWTS), located approximately 7 miles northeast of Boulder City, at Flycatcher Road, at Boulder Beach, being within Clark County, Nevada. The Permittee proposes to continue to discharge secondary treated domestic sewage to groundwater of the State.

This permit was first issued on August 30, 1994. The most recent permit was issued on December 19, 2013, and expired on December 18, 2018; the permit has been administratively continued since.

**Facility Overview**

The National Park Service owns and operates the BBWTS, an aerated partial mix pond treatment plant located near Boulder Harbor, in the Lake Mead National Recreation Area. The treatment plant is designed to receive and treat a 30-day average flow of 0.040 million gallons per day (MGD) and a daily maximum flow of 0.130 MGD. BBWTS includes a force main system, six lift stations, an aerated 1.27-acre double-lined, with a leak detection system, primary treatment pond (Pond #1), a 1.13 acre double-lined, with a leak detection system, secondary treatment pond (Pond #2), and two rapid infiltration basins (RIBs) Pond #3 and Pond #4, that are 2.07 acres and 1.8 acres, respectively. BBWTS is also equipped with a pretreatment system designed to receive vault/portable toilet waste and fish cleaning station waste. The pretreatment system includes a concrete lined receiving basin, an auger screw press, and an aeration unit. There is also one

monitoring well for which a quarterly groundwater reporting requirement is in place.

Domestic sewage flows to the BBWTS via one force main and six (6) lift stations (LS-1 through LS-6). The first lift station, LS-1, is the farthest from the treatment plant with LS-6 being the closest. LS-5 receives flow from all the other lift stations and pumps to the BBWTS. LS-1, LS-2, and LS-5 each utilize a wet well with vacuum pumps, while LS-3, LS-4, and LS-6 utilize submersible pumps to convey wastewater.

Domestic sewage enters the BBWTS at primary Pond #1 through an influent diversion manhole and an onsite septage receiving system. Sewage from the collection system vacuum trucks is dumped into the septage receiving system, which consists of a debris grinder (muffin monster) and screen auger system for debris removal. Removed debris is discharged into a two-yard dumpster for removal to a landfill. Screened septage flows into a stabilization vault with a surface aerator for mixing and dissolved oxygen (DO) addition.

Pond #1 utilizes a surface aerator to supplement DO levels. Pond #1 overflows through a discharge pipe to Pond #2. Treated effluent is then discharged into one of the two RIBs (Pond #3 or #4), which can be isolated for rotation or maintenance.

### **Outfall Summary**

Outfall 001 – This internal outfall is located at the main lift station.

Outfall 002 – This external outfall is for flow into the concrete-lined portable waste receiving basin.

Outfall 003 – This sum outfall is for total flow received.

Outfall 004 – This external outfall is for the RIBs and is the surface disposal site.

Outfall 005 – This outfall is a downgradient monitoring well located north of the RIBs.

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

Polyethylene double-liners and associated leak detection vaults have been installed in Ponds #1 and #2, preventing any water from reaching the ground.

### **Solids Handling**

Due to the low level of total retention, solids are only removed when the ponds are re-lined, at which time the solids are taken to the local landfill.

### **Effluent Management and Reuse**

Effluent water is discharged into the RIBs where it either will evaporate or percolate into the ground. There is no reuse associated with this permit.

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

The permit's daily maximum and 30-day average flow rates of 0.13 MGD and 0.014 MGD are based on the facility's design flow.

### **Pretreatment Program**

The facility does not meet the federal Environmental Protection Agency's (EPA's) guidelines requiring them to have a pretreatment program. But, due to pit (vault) toilet waste at the marina having high levels of BOD5 (up to 20,000 mg/L), and to eliminate potential pond septicity, the BBWTS is equipped with a pretreatment system designed to receive hauled vault/portable toilet waste. The pretreatment system includes a concrete lined receiving basin, an auger screw press, and an aeration unit. The BBWTS's headworks include an auger screen for debris removal, and a pontoon float aspirating aerator for pretreatment of the high strength waste, which is metered into the primary ponds through an adjustable slide gate by the operator.

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

The BBTWS's Operation and Maintenance Manual (O&M Manual) has not been received nor reviewed by the Division. 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. The O&M Manual is due within 3 months of the permit issuance date.

### **Effluent Characterization**

Nevada State Network Discharge Monitoring Report (NetDMR) data, as reported from November 2019 to October 2024, was reviewed as part of this permit renewal process. The BBWTS treats domestic sewage from the surrounding area and then releases the treated effluent into RIBs for percolation and evaporation. The long-term average discharge flow rate for Outfall 003, being the total of Outfalls 001 and 002, was 0.03 million gallons per day (MGD). The daily maximum discharge flow rate for Outfall 003 is limited to 0.13 MGD. There were no reported exceedances of this limit.

Outfall 004 had one reportable instance, during the past five years, with levels of the following:  
Biochemical Oxygen Demand, carbonaceous, 5-day (CBOD5): 27.9 milligrams per liter (mg/L)  
Nitrogen, Total: 29.8 mg/L  
pH: 8.92 Standard Units (S.U.)  
Total Suspended Solids (TSS): 170 mg/L

Outfall 005 had the following averaged reported levels during the 5-year period reviewed:  
Chloride: 707.57 mg/L  
Nitrogen, Total: 12.66 mg/L  
Total Dissolved Solids (TDS): 2949.29 mg/L

### **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 condition of the receiving water. Pollutants of concern, for the groundwater, are Chloride, Nitrogen, pH, TDS, along with potential inorganic chemicals and metals (Profile 1 contaminants).

### **Receiving Water**

The receiving water is groundwater of the State. Depth to groundwater in the area is 132 feet below ground surface. No adverse effects are expected with discharge of this treated effluent.

### **Compliance History**

The facility was in substantial compliance during the November 2019 to October 2024 reporting period with the exception of no O&M Manual being submitted.

### **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 Meter) To Be Reported Quarterly<sup>[1]</sup>**

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Flow rate	30 Day Average	M&R Million Gallons per Day (Mgal/d)		Raw Sewage Influent	001	Continuous	METER
Flow rate	Daily Maximum	M&R Million Gallons per Day (Mgal/d)		Raw Sewage Influent	001	Continuous	METER

Notes (WWTP Discharge Limitations Table):

1. Measure and report the total flow to the treatment ponds from the main lift station each quarter

**WWTP Discharge Limitations Table for Sample Location 002 (Portable Waste Receiving Basin) To Be Reported Quarterly<sup>[1]</sup>**

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Flow rate	30 Day Average	M&R Million Gallons per Day (Mgal/d)		See Footnote <sup>[2]</sup>	002	Continuous	METER
Flow rate	Daily Maximum	M&R Million Gallons per Day (Mgal/d)		See Footnote <sup>[2]</sup>	002	Continuous	METER

Notes (WWTP Discharge Limitations Table):

1. Measure and report the total flow to the treatment ponds from the concrete lined portable waste receiving basin each month.
2. Discharge from pump truck.

**WWTP Discharge Limitations Table for Sample Location 003 (Sum Of Total Flow) To Be Reported Quarterly<sup>[1]</sup>**

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Flow rate	30 Day Average	<= 0.04 Million Gallons per Day (Mgal/d)		Raw Sewage Influent	003	Continuous	CALCTD
Flow rate	Daily Maximum	<= 0.13 Million Gallons per Day (Mgal/d)		Raw Sewage Influent	003	Continuous	CALCTD

Notes (WWTP Discharge Limitations Table):

1. Measure and report the sum of total flow from the main lift station and the concrete lined portable waste receiving basin to the treatment ponds each month.

**Groundwater Monitoring Wells Table for Sample Location 005 (Downgradient Monitoring Well)  
To Be Reported Quarterly**

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Nitrogen, total	Daily Maximum		<= 10.0 Milligrams per Liter (mg/L)	Groundwater	005	Quarterly	DISCRT
Chloride (as Cl)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	005	Quarterly	DISCRT
Depth to water level ft below landsurface <sup>[1]</sup>	Daily Minimum	M&R Feet (ft)		Groundwater	005	Quarterly	VISUAL
pH	Value		M&R Standard Units (SU)	Groundwater	005	Quarterly	DISCRT
Solids, total dissolved	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	005	Quarterly	DISCRT
Water level relative to mean sea level <sup>[2]</sup>	Daily Maximum	M&R Feet (ft)		Groundwater	005	Quarterly	CALCTD

Notes (Groundwater Monitoring Wells Table):

1. Depth to groundwater.
2. Groundwater elevation above mean sea level (AMSL).

**Ponds / Rapid Infiltration Basins for Sample Location 004 (Rapid Infiltration Basins) To Be Reported Monthly**

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Freeboard	Daily Minimum	>= 3.0 Feet (ft)		Effluent Gross	004	Twice Per Month	VISUAL
Liner Leakage Rate <sup>[1]</sup>	Daily Maximum	<= 500 Gallons per Acre per Day (gal/acre/d)		Effluent Gross	004	Twice Per Month	METER
Reservoir storage	Average	M&R Million Gallons (Mgal)		Effluent Gross	004	Twice Per Month	CALCTD

Notes (Ponds / Rapid Infiltration Basins):

- The volume of fluid removed from the leak detection system (gal/acre/day). See Section B.PB.5.5 of the permit for further information.



**Ponds / Rapid Infiltration Basins for Sample Location 004 (Rapid Infiltration Basins) To Be Reported Quarterly<sup>[1]</sup>**

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
BOD, carbonaceous, 05 day, 20 C	Daily Maximum		<= 60 Milligrams per Liter (mg/L)	Effluent Gross	004	Quarterly	DISCRT
BOD, carbonaceous, 05 day, 20 C	Quarterly Average		<= 40 Milligrams per Liter (mg/L)	Effluent Gross	004	Quarterly	DISCRT
Nitrogen, total	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	004	Quarterly	DISCRT
pH, maximum	Maximum Value <sup>[2]</sup>		<= 9.0 Standard Units (SU)	Effluent Gross	004	Quarterly	DISCRT
pH, minimum	Minimum Value <sup>[2]</sup>		>= 6.0 Standard Units (SU)	Effluent Gross	004	Quarterly	DISCRT
Solids, total suspended	Daily Maximum		<= 135 Milligrams per Liter (mg/L)	Effluent Gross	004	Quarterly	DISCRT
Solids, total suspended	Quarterly Average		<= 90 Milligrams per Liter (mg/L)	Effluent Gross	004	Quarterly	DISCRT

**Notes (Ponds / Rapid Infiltration Basins):**

1. If no discharge takes place from this outfall during the reporting period, enter "No Discharge" on the DMR for this outfall.
2. If fewer than two samples are taken during the monitoring period, enter the single result as both the minimum and maximum value.

**Ponds / Rapid Infiltration Basins for Sample Location 004 (Rapid Infiltration Basins) To Be Reported Once During The Permit Term<sup>[1]</sup>**

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	004	Once Per Permit Term	DISCRT
Alkalinity, total (as CaCO <sub>3</sub> )	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	004	Once Per Permit Term	DISCRT
Aluminum, total (as Al)	Daily Maximum		<= 0.2 Milligrams per Liter (mg/L)	Effluent Gross	004	Once Per Permit Term	DISCRT
Antimony, total (as Sb)	Daily Maximum		<= 0.006 Milligrams per Liter (mg/L)	Effluent Gross	004	Once Per Permit Term	DISCRT
Arsenic, total (as As)	Daily Maximum		<= 0.01 Milligrams per Liter (mg/L)	Effluent Gross	004	Once Per Permit Term	DISCRT
Barium, total (as Ba)	Daily Maximum		<= 2 Milligrams per Liter (mg/L)	Effluent Gross	004	Once Per Permit Term	DISCRT
Beryllium, total (as Be)	Daily Maximum		<= 0.004 Milligrams per Liter (mg/L)	Effluent Gross	004	Once Per Permit Term	DISCRT
Cadmium, total (as Cd)	Daily Maximum		<= 0.005 Milligrams per Liter (mg/L)	Effluent Gross	004	Once Per Permit Term	DISCRT
Calcium, total (as Ca)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	004	Once Per Permit Term	DISCRT
Chloride (as Cl)	Daily Maximum		<= 400 Milligrams per Liter (mg/L)	Effluent Gross	004	Once Per Permit Term	DISCRT
Chromium, total (as Cr)	Daily Maximum		<= 0.1 Milligrams per Liter (mg/L)	Effluent Gross	004	Once Per Permit Term	DISCRT
			<= 1				

**Ponds / Rapid Infiltration Basins for Sample Location 004 (Rapid Infiltration Basins) To Be Reported Once During The Permit Term<sup>[1]</sup>**

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Copper, total (as Cu)	Daily Maximum		Milligrams per Liter (mg/L)	Effluent Gross	004	Once Per Permit Term	DISCRT
Fluoride, total (as F)	Daily Maximum		<= 4 Milligrams per Liter (mg/L)	Effluent Gross	004	Once Per Permit Term	DISCRT
Iron, total (as Fe)	Daily Maximum		<= 0.6 Milligrams per Liter (mg/L)	Effluent Gross	004	Once Per Permit Term	DISCRT
Lead, total (as Pb)	Daily Maximum		<= 0.015 Milligrams per Liter (mg/L)	Effluent Gross	004	Once Per Permit Term	DISCRT
Magnesium, total (as Mg)	Daily Maximum		<= 150 Milligrams per Liter (mg/L)	Effluent Gross	004	Once Per Permit Term	DISCRT
Manganese, total (as Mn)	Daily Maximum		<= 0.1 Milligrams per Liter (mg/L)	Effluent Gross	004	Once Per Permit Term	DISCRT
Mercury, total (as Hg)	Daily Maximum		<= 0.002 Milligrams per Liter (mg/L)	Effluent Gross	004	Once Per Permit Term	DISCRT
Nitrite plus nitrate total 1 det. (as N)	Daily Maximum		<= 10 Milligrams per Liter (mg/L)	Effluent Gross	004	Once Per Permit Term	DISCRT
Nitrogen, total	Daily Maximum		<= 10 Milligrams per Liter (mg/L)	Effluent Gross	004	Once Per Permit Term	DISCRT
pH, maximum	Daily Maximum		<= 8.5 Standard Units (SU)	Effluent Gross	004	Once Per Permit Term	DISCRT
pH, minimum	Daily Minimum		>= 6.5 Standard Units (SU)	Effluent Gross	004	Once Per Permit Term	DISCRT
Potassium, total (as K)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	004	Once Per Permit Term	DISCRT

**Ponds / Rapid Infiltration Basins for Sample Location 004 (Rapid Infiltration Basins) To Be Reported Once During The Permit Term<sup>[1]</sup>**

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Selenium, total (as Se)	Daily Maximum		<= 0.05 Milligrams per Liter (mg/L)	Effluent Gross	004	Once Per Permit Term	DISCRT
Silver, total (as Ag)	Daily Maximum		<= 0.1 Milligrams per Liter (mg/L)	Effluent Gross	004	Once Per Permit Term	DISCRT
Sodium, total (as Na)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	004	Once Per Permit Term	DISCRT
Sulfate, total (as SO <sub>4</sub> )	Daily Maximum		<= 500 Milligrams per Liter (mg/L)	Effluent Gross	004	Once Per Permit Term	DISCRT
Thallium, total (as Tl)	Daily Maximum		<= 0.002 Milligrams per Liter (mg/L)	Effluent Gross	004	Once Per Permit Term	DISCRT
Solids, total dissolved	Daily Maximum		<= 1000 Milligrams per Liter (mg/L)	Effluent Gross	004	Once Per Permit Term	DISCRT
Uranium, natural, total	Daily Maximum		<= 0.01 Milligrams per Liter (mg/L)	Effluent Gross	004	Once Per Permit Term	DISCRT
Cyanide, weak acid, dissociable	Daily Maximum		<= 0.2 Milligrams per Liter (mg/L)	Effluent Gross	004	Once Per Permit Term	DISCRT
Zinc, total (as Zn)	Daily Maximum		<= 5 Milligrams per Liter (mg/L)	Effluent Gross	004	Once Per Permit Term	DISCRT

Notes (Ponds / Rapid Infiltration Basins):

1. Analysis is for the dissolved fraction.

**Summary of Changes From Previous Permit**

Reporting for the outfalls were changed from a "Monthly" time period to a "Quarterly" time period due to the low levels of discharge currently occurring.

Under the Monitoring Wells Table the following changes or additions were done:

The base discharge limitation for the parameters, Chloride, Nitrogen, and Total Dissolved Solids, was changed from "Value" to "Daily Maximum".

The base discharge limitation for the parameter, Depth to water level feet below land surface, was changed from "Value" to "Daily Minimum".

"Water level relative to mean sea level parameter" was added for a "Daily Maximum" base discharge limitation, and a "Monitor & Report in Feet" quantity, at the "Groundwater" monitoring location, a "Quarterly" measurement frequency, and a "Visual" sample type.

A Ponds/ Rapid Infiltration Basins for Sample Location 004 (Rapid Infiltration Basins) to be Reported Monthly under which the following parameters were added:

Freeboard Parameter, "7-day Minimum" base, "Greater than or equal to 3.0 feet" quantity, "Effluent Gross" monitoring location, "Twice a month" measurement frequency, and "Visual" sample type.

Liner Leakage Rate parameter, "Daily Maximum" base, "Less than or equal to 500 Gallons per Acre per Day (gal/acre/day)" quantity, "Effluent Gross" monitoring location, "Twice a month" measurement frequency, and a "Meter" sample type.

Reservoir storage parameter, "Average" base, M&R Million gallons (Mgal)" quantity, "Effluent Gross" monitoring location, "Twice per month" measurement frequency, and a "Calctd" sample type.

### **Technology Based Effluent Limitations**

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

CBOD5 – The daily maximum threshold is limited to 60 mg/L and the monthly average threshold is limited to 40 mg/L. The following adjustments to equivalent to secondary standards have been included in the permit:

TSS – The daily maximum threshold is limited to 135 mg/L and the monthly average threshold is limited to 90 mg/L.

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

Normally, CBOD5 percent removal monthly average minimum limit is 65%. TSS percent removal monthly average minimum limit is 65% but with the limited amounts of effluent released to the ribs, this is not an applicable standard.

pH daily maximum threshold is limited to 9.0 standard units (S.U.) and the daily minimum limit is 6.0 S.U.

The U.S. EPA published federal secondary treatment standards at 40 CFR 133 based on an evaluation of performance data for POTWs practicing a combination of physical and biological treatment. Facilities primarily using biological treatment technologies, such as trickling filters or waste stabilization ponds, can achieve significant reductions in CBOD5 and TSS but might not consistently achieve the secondary treatment standards for these parameters. Because of this, the U.S. EPA promulgated regulations at 40 CFR 133.105 that include alternative standards that apply to facilities using equivalent to secondary treatment. Federal equivalent to secondary treatment standards is defined at 40 CFR 133.105 as a 30-day average of 40 mg/L and a 7-day average of 60 mg/L for CBOD5, a 30-day average of 45 mg/L and a 7-day average of 65 mg/L for TSS, and a monthly average percent removal of not less than 65% for CBOD5 and TSS. The Division has adopted these standards for groundwater discharges from facilities using equivalent to secondary treatment. Additionally, the Division uses a daily maximum limit in place of the 30-day average limit.

The federal regulations also allow states to adjust the maximum allowable TSS concentration for waste stabilization ponds upwards from those specified in the equivalent to secondary treatment standards to conform to TSS concentrations achievable with waste stabilization ponds. The approved alternate TSS requirement in the state of Nevada is 90 mg/L as a 30-day average, implemented as an average monthly limit. Furthermore, the daily maximum TSS limit was calculated using a factor of 1.5 times the average monthly limitation (90 mg/L X 1.5 = 135 mg/L).

Limits Based on Facility's Design Criteria Review:

30-day average flow rate at the end of treatment is limited to  $\leq 0.04$  MGD.

Daily maximum flow rate at the end of treatment is limited to  $\leq 0.13$  MGD.

### **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**

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."

Permittee requested reporting requirements be changed from monthly submittals to quarterly submittals due to flow levels.

### **Anti-backsliding**

Based on improvements to the facility, and low levels of flow, the reporting requirements have been decreased to a quarterly time period.

### **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 Nevada Revised Statute (NRS) 445A.520 and NRS 445A.565 and is consistent with the federal antidegradation policy found at Title 40 in the Code of Federal Regulations (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.

### **Special Conditions**

There are no special approvals or conditions associated with this permit.

## SA – Special Approvals / Conditions Table

There are no Special Approval / Condition items
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**Discharges From Future Outfalls/ Planned Facility Changes**

There currently are no proposed discharges from future outfalls or planned facility changes.

**Corrective Action Sites**

There are no active Bureau of Corrective Action (BCA) remediation sites located within a one-mile radius of the discharge location.

**Wellhead Protection Program**

The outfalls are not located within a Wellhead Protection Area, which represents an approximate 10-year capture zone of a well, or within a Drinking Water Protection Area, which is defined by a 3,000-foot radius around a PWS well.

**Schedule of Compliance:**

SOC – Schedule of Compliance Table

Item #	Description	Due Date
1	The Permittee shall submit two copies (one hard copy and one electronic copy) of an updated Operations and Maintenance (O&M) Manual for review and approval by the Division. The O&M Manual shall follow guidance document, WTS2 Minimum Information Required for an Operation and Maintenance Manual for a Wastewater Treatment Plant.	7/1/2025



**Deliverable Schedule:**

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

Item #	Description	Interval	First Scheduled Due Date
1	Discharge Monitoring Reports	Quarterly	7/28/2025
3	Annual Reports	Annually	1/28/2026
4	Once during the permit term - Discharge Monitoring Report - Pollutant 1	Once during the permit term	4/28/2030

**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. **3/7/2025**, 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: **Melissa Hanson**  
 Date: **1/31/2025**  
 Title: **Staff II Engineer**