



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

**Permittee Name:** WASHOE COUNTY  
1001 EAST NINTH STREET  
RENO, NV 89512

**Permit Number:** NS2018501

**Permit Type:** GROUNDWATER DISCHARGE

**Designation:** GROUNDWATER

**New/Existing:** NEW

**Location:** SOUTHERN COMFORT LEACHFIELD, WASHOE  
11230 BONDSHIRE DRIVE, RENO, NV 89521  
LATITUDE: 39.429248, LONGITUDE: -119.772011

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Latitude	Longitude	Receiving Water
LF1	LEACH FIELD	External Outfall		39.429439	-119.772509	GROUNDWATER
PS1	PUMP STATION	Internal Outfall		39.429255	-119.772051	GROUNDWATER

**Permit History/Description of Proposed Action**

This is a new permit for a subdivision in South Reno. The cluster-septic system, serving approximately 15 single-family homes, was originally constructed by the developer in the late 1970s and transferred to Washoe County ownership around 1988.

**Facility Overview**

All wastewater is collected and directed to a pump station located at 39°25'45"N, 119°46'19"W (39.429247, -119.771976), which then transfers it to a leach field located at 39°25'46"N, 119°46'21"W (39.429443, -119.772491).

Per Washoe County Code requirements for residential onsite sewage disposal systems (OSDS), the following tank sizes apply:

- \* 1,000-gallon tank for a three-bedroom house
- \* 1,200-gallon or 1,250-gallon tank for a four-bedroom house
- \* 1,500-gallon tank for a five or six -bedroom house

The 15 tanks in the system are owned by individual homeowners but are serviced by the county approximately every three years (the last service occurred in 2024) through a Nevada-licensed company, Sierra Septic Service.

The following houses are connected to the OSDS system:

1120 Carbou Rd.; 11220, 11240, 11260, 11270, and 11280 Bondshire Dr.; 11300, 11310, 11320, 11330, 11336, and 11338 Cornerbrook Ct.; and 13330 and 13380 Stony Brook Dr.

## Outfall Summary

PS1 - Pump station collecting water from all 15 houses, with an estimated flow of 280 gallons per day (gpd) per home, resulting in a total flow of approximately 4,200 gallons per day (gpd).

LF1 - Leach field receiving water from the pump station, covering an area of approximately 8,200 square feet.

## Effluent Characterization

This permit pertains to a residential wastewater management system in South Reno, which serves approximately 15 single-family homes. The wastewater generated from these homes is collected in individual septic tanks and conveyed to a central pump station. From the pump station, the effluent is directed to a leach field for final treatment and disposal. The system handles a total flow of approximately 4,200 gpd.

Each septic tank in the system is typically pumped every three years, utilizing a licensed septic service company in Nevada. This regular maintenance helps maintain system functionality and ensures compliance with local health and safety standards. The system exclusively treats domestic sewage, as defined by Nevada Administrative Code (NAC) 445A.9532, with no industrial wastewater being discharged. The wastewater from these 15 homes is processed through their individual septic tanks, ensuring the system's design is used solely for residential waste.

## Pollutants of Concern

"Pollutants of concern" refers to any substances or parameters anticipated in the discharge that could affect the physical, chemical, or biological quality of the receiving water.

When a septic tank system is properly operated and maintained, pathogens such as total coliform and *Escherichia coli* (*E. coli*) are not considered pollutants of concern due to the effective separation between the effluent and the environment or potential human contact.

## Receiving Water

The receiving water is the groundwater of the State. The depth to groundwater near septic systems depends on the geologic unit in which the system is located. In basin fill areas, groundwater depths typically range from 100 to 200 feet below ground surface (bgs). These estimates are based on a review of water levels from nearby wells.

## Compliance History

This is a new permit, and there is no prior compliance history associated with it. The system was originally constructed by the developer in the late 1970s and transferred to county ownership around 1988. The permit application was submitted to NDEP in 2017.

## Proposed Effluent Limitations

The Permittee is authorized to discharge in accordance with the limitations, requirements, and conditions of this permit. The Permittee is required to meet the following permit requirements.

## NS OTHER - Discharge Limitations Table for Sample Location Lf1 (Leach Field) To Be Reported Monthly

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 Pass=0 Fail=1 (pass/fail)		Secondary/Biological Process Complete	LF1 <sup>[1]</sup>	Monthly	VISUAL

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

1.

For the Onsite Sewage Disposal System (OSDS), if a visual inspection of the pump station and leach field is performed and no issues are observed, report "0" as "Pass." If the visual inspection is not conducted, or if any surfacing, damage, or leaks are identified, report "1" as "Fail."

Routine visual inspections of the leach field are essential to detect any surfacing, damage, or leaks. If surfacing is observed, it must be reported immediately to the NDEP Spill Hotline at 1-888-331-6337.

## NS OTHER - Discharge Limitations Table for Sample Location Ps1 (Pump Station) To Be Reported Monthly

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 Pass=0 Fail=1 (pass/fail)		See Footnote <sup>[1]</sup>	PS1	Monthly	VISUAL

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

1.

For the Onsite Sewage Disposal System (OSDS), if a visual inspection of the pump station and leach field is performed and no issues are observed, report "0" as "Pass." If the visual inspection is not conducted, or if any surfacing, damage, or leaks are identified, report "1" as "Fail."

The Permittee is responsible for conducting regular visual inspections of the pump station to ensure proper operation and to identify any potential issues that may pose a risk to public safety. These inspections must be performed in accordance with the guidelines and procedures outlined in the Operations and Maintenance (O&M) manual. The pump station must also be maintained to comply with the operational standards detailed in the O&M manual, ensuring continued functionality and adherence to relevant safety regulations. Any identified issues must be promptly addressed to preserve the integrity of the system and protect public health and safety.

Routine visual inspections of the leach field are essential to detect any surfacing, damage, or leaks. If surfacing is observed, it must be reported immediately to the NDEP Spill Hotline at 1-888-331-6337.

### Summary of Changes From Previous Permit

This is a new permit, and no summary of changes from a previous permit is applicable.

### Technology Based Effluent Limitations

This permit is for an OSDS, and no technology-based effluent limitations (TBELs) are applicable. NDEP does not typically apply TBELs to OSDS permits, as these limitations are primarily used for larger, more complex wastewater treatment systems, particularly those handling industrial discharges or municipal Wastewater Treatment Plant (WWTPs). Septic tanks, which are decentralized systems treating domestic sewage, are usually regulated through performance standards, maintenance requirements, and water quality-based limits rather than TBELs.

NDEP focuses on the following for OSDS:

- \* Operational and maintenance requirements, including periodic pumping, inspections, and proper disposal of sludge.
- \* Design standards for septic systems, including tank size, soil percolation rates, and setbacks from water bodies.
- \* Nutrient or pathogen limits, depending on the environmental sensitivity of the area.

NDEP may enforce these regulations under their own guidelines, but septic systems generally fall under Onsite Wastewater Treatment System (OWTS) or OSDS regulations, rather than the TBEL framework.

### Water Quality Based Effluent Limitations

There are no water quality based effluent limitations associate with this permit.

### Basis for Effluent Limitations

#### Pump station:

The Permittee is responsible for conducting regular visual inspections of the pump station to ensure its proper operation and to identify any potential issues that may pose a risk to public safety. These inspections must be carried out in accordance with the guidelines and procedures outlined in the Operations and Maintenance (O&M) manual. Additionally, the pump station must be maintained to meet the operational

standards set forth in the O&M manual, ensuring its continued functionality and compliance with relevant safety regulations. Any identified issues should be promptly addressed to maintain the integrity of the system and safeguard public health and safety.

#### **Leach Fields:**

The Permittee is required to perform visual inspections of the leach field systems to ensure that no water reaches the surface. If surface water appears, the Permittee shall follow the instructions in the O&M manual.

#### **Anti-backsliding**

To prevent backsliding, effluent limitations in reissued permits must be as stringent as those in the previous permit. This permit is not subject to backsliding because it is a new permit.

#### **Antidegradation**

The Division has developed an antidegradation regulation that is applied statewide and meets the statutory requirements of Nevada's water pollution control law, as outlined in Nevada Revised Statutes (NRS) 445A.520 and NRS 445A.565. This regulation is consistent with the federal antidegradation policy set forth in Title 40 of the Code of Federal Regulations (CFR) § 131.12. The objective of the Division's antidegradation regulation is to prevent the degradation of Nevada's surface waters and to maintain the unique attributes, 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**

See the Special Approvals / Conditions Table below.

SA – Special Approvals / Conditions Table

Item #	Description
1	The rated treatment capacity of each septic tank shall not be exceeded.
2	The septic tank treatment and disposal systems shall be used only for the treatment of domestic sewage. Domestic sewage is defined in NAC 445A.9532 as any liquid and waterborne waste derived from ordinary living processes and of a character that permits its satisfactory disposal into a public sewer or an onsite sewage disposal system without special treatment. The term does not include industrial waste. The discharge of toxic, hazardous, industrial, or laboratory waste material to any permitted wastewater treatment plant (WWTP) is strictly prohibited.

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

The Permittee does not intend to discharge from any future outfalls.

#### **Corrective Action Sites**

Five known Bureau of Corrective Actions (BCA) sites are located within a 1-mile radius of this site. All five sites are classified as closed and were associated with the following contaminants: Gasoline and Heating Oil. This discharge will not impact the BCA sites.

#### **Wellhead Protection Program**

There are Public Water Supply (PWS) wells located approximately 2,100 feet downgradient to the west of the outfall placing the well in a Drinking Water Protection Area, which is defined by a 3,000-foot radius around a PWS well. The outfalls are not located in a Wellhead Protection Area (WHPA), which represents an approximate 10-year capture zone of a well. The wells are drilled to a depth of 95 feet. The recent chemical history of the wells reports that the wells have been having detections and exceedances of nitrate. Based on the well depths and chemical history, the wells are at risk of contamination.



**Schedule of Compliance:**

SOC – Schedule of Compliance Table

Item #	Description	Due Date
1	All Discharge Monitoring Reports (DMRs) shall be submitted electronically through the Nevada NetDMR website: <a href="https://netdmr.ndep.nv.gov/netdmr/public/home.htm">https://netdmr.ndep.nv.gov/netdmr/public/home.htm</a> .	1/28/2026
2	The Permittee shall submit two (2) copies of an Operations and Maintenance (O&M) Manual for review and approval by the Division. One copy shall be a hard copy, and the second shall be an electronic copy. The O&M Manual shall be prepared and stamped by a Nevada Registered Professional Engineer. O&M Manuals prepared by a Nevada Registered Professional Engineer must be signed and stamped in accordance with NAC 625.610.	1/1/2026

**Deliverable Schedule:**

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

Item #	Description	Interval	First Scheduled Due Date
1	Quarterly DMRs	Quarterly	1/28/2026
2	Annual Report	Annually	1/28/2027

**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. **9/18/2025**, 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: **Lior Singer P.E. M.Sc.**

Date: **8/15/2025**

Title: **Environmental Engineer**



## Map of the Septic Tanks, Pumping Station, and Leach Field:

