FACTSHEET
(pursuant to NAC 445A.236)

Permittee Name: REFUSE INC.

100 VASSAR ST
RENO, NV 89512

Permit Number: NS2010502

Permit Type: GROUNDWATER DISCHARGE

Designation: GROUNDWATER

New/Existing: EXISTING

Location: LOCKWOOD REGIONAL LANDFILL, STOREY
2401 CANYON WAY, SPARKS, NV 89434
LATITUDE: 39.49, LONGITUDE: -119.61
TOWNSHIP: 19 N, RANGE: 21 E, SECTION: 22, 23, 26, 27

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Latitude	Longitude	Receiving Water
001	RECLAIMED WATER REUSE	External Outfall		39.49	-119.61	GROUNDWATER

Permit History/Description of Proposed Action
The Permittee, Waste Management of Nevada – Refuse Inc., has applied for the renewal of Permit NS2010502 for the Lockwood Regional Landfill, located at 2401 Canyon Way, in Sparks, within Storey County, Nevada. The Permittee proposes to continue utilizing reclaimed water for dust control along haul roads outside of the operating footprint of the landfill. Water is delivered from the Canyon General Improvement District Wastewater Treatment Plant (CGID WWTP).

This permit was first issued on January 12, 2010, and expired on January 12, 2015; the permit has been administratively continued since.

Facility Overview
The Lockwood Regional Landfill proposes to continue to conduct dust control activities along haul roads outside of the landfill's footprint. These activities utilize reclaimed water, that meets Category B bacteriological quality per Nevada Administrative Code (NAC) 445A.276, supplied by the CGID WWTP (NS0050028).

Reclaimed water is delivered from the CGID WWTP through a pipeline that runs from the booster pumps, within the CGID WWTP's control building, along a 3-mile pipeline alignment, then through a flow meter, prior to discharging into two storage tanks, which is then diverted into a plastic lined pond (having an approximate 600,000-gallon capacity) at the landfill facility. The reclaimed water is then pumped from the pond, into a tank located at the top of a stepped plateau, from which a pipeline takes the reclaimed water to a fill stand from which water trucks are filled for dust control applications. All reuse activities are conducted in accordance with the approved Reclaimed Water Management Plan (RWMP).

The site's RWMP was last reviewed and approved by the Division in September 2009. The Technical, Compliance, and Enforcement (TCE) Branch of the Bureau of Water Pollution Control requires RWMPs be updated every two (2) permit cycles which equates to every ten (10) years. The next RWMP will be due 90 days after the permit issuance date.

Outfall Summary
Outfall 001 – This external outfall is for the discharge and distribution of reclaimed water for dust control activities along haul roads outside of the landfill's footprint.

Effluent Characterization
Nevada State Network Discharge Monitoring Report (NetDMR) data, as reported from September 2019 to August 2024, was reviewed as part of this permit renewal process. The daily maximum discharge flow rate for Outfall 001 is limited to 0.14 million gallons per day (Mgal/d). The long-term average daily maximum discharge flow rate reported for Outfall 001 was 0.03 Mgal/d.

The CGID WWTP provides tertiary treated, denitrified, and disinfected reclaimed water which meets Category B bacteriological quality per NAC 445A.276 to the Lockwood Regional Landfill; therefore, the reclaimed water should meet, at a minimum, a daily maximum fecal coliform of 23 colony forming units (CFU) / 100 mL and a 30-day geometric mean of 2.2 CFU / 100 mL. The average daily maximum for fecal coliform reported was below detection, at the CGID WWTP, with one exceedance of both the daily maximum and 30-day geometric mean reported during the five-year period reviewed (July 2024).

The total nitrogen, reported during the October 2019 to September 2024 period, as reported by CGID WWTP, had a daily maximum of 7.92 mg/L (milligrams per liter).

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. A common pollutant of concern for the reclaimed water is fecal coliform, nitrogen, and pH.

Receiving Water
The receiving water is groundwater of the State. Depth to groundwater in the area ranges between 50 to 300 feet below ground surface. No adverse effects are expected to occur with the discharge and reuse of the reclaimed water based on the water being denitrified and the level of bacteriological quality treatment achieved by the CGID WWTP.

Compliance History
The landfill was in substantial compliance during the October 2019 to September 2024 reporting period.

Proposed Effluent Limitations
The discharge shall be limited and monitored by the Permittee as specified below.

Re-use Discharge Limitations Table for Sample Location 001 (Reclaimed Water Reuse-External Outfall) To Be Reported Monthly

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Coliform, fecal general[1]	30 Day Geometric Mean		<= 2.2 Colony Forming Units per 100ml T (CFU/100mL)[2]	Prior to Reuse	001	Weekly	DISCRT
Coliform, fecal general[1]	Daily Maximum		<= 23 Colony Forming Units per 100ml T (CFU/100mL)[2]	Prior to Reuse	001	Weekly	DISCRT
Flow rate	30 Day Average	<= 0.50 Million Gallons per Day (Mgal/d)		Prior to Reuse	001	Continuous	METER
Flow rate	Daily Maximum	<= 0.50 Million Gallons per Day (Mgal/d)		Prior to Reuse	001	Continuous	METER

Notes (Re-use Discharge Limitations Table):

1. The Permittee may use the sampling data provided from the supplier (Canyon GID WWTP, permit NS0050028) for these parameters.
2. CFU or MPN / 100 mL.

Re-use Discharge Limitations Table for Sample Location 001 (Reclaimed Water Reuse-External Outfall) To Be Reported Quarterly

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
pH, maximum	Daily Maximum		<= 9 Standard Units (SU)[1]	Prior to Reuse	001	Quarterly	DISCRT
pH, minimum	Daily Minimum		>= 6 Standard Units (SU)[1]	Prior to Reuse	001	Quarterly	DISCRT
Nitrogen, total	Daily Maximum		<= 10 Milligrams per Liter (mg/L)	Prior to Reuse	001	Quarterly	DISCRT

Notes (Re-use Discharge Limitations Table):

1. The Permittee may use the sampling data provided from the supplier (Canyon GID WWTP, permit NS0050028) for these parameters.

Summary of Changes From Previous Permit

Outfall 001 has been updated with the following changes or additions:

At the request of the Permittee, the Flow Rate for both “Daily Maximum” and “30-Day Average” bases were changed to 0.50 Mgal/d.

“Treated Effluent Delivery from Canyon GID (gal)” parameter’s naming convention has been updated to “Flow rate” based on current Division parameter identifier standards.

Fecal Coliform parameter’s naming convention has been updated to “Coliform, fecal general” with the following discharge limitations:

Coliform, fecal general, with a “30-Day Geometric Mean” base, a “Less than or Equal To 2.2 Colony Forming Units per 100 ml T (CFU/100mL) concentration, a “Prior to Reuse” monitoring location, a “Weekly” measurement frequency, and a “Discrt” sampling type.

Coliform, fecal general, with a “Daily Maximum” base, a “Less than or Equal To 23 Colony Forming Units per 100 ml T (CFU/100mL) concentration, a “Prior to Reuse” monitoring location, a “Weekly” measurement frequency, and a “Discrt” sampling type.

Along with the footnotes:
1. The Permittee may use the sampling data provided by the supplier (Canyon GID WWTP, permit NS0050028) for these parameters.
2. CFU or MPN / 100 mL.

The pH parameters maintained the original “Quarterly” measurement frequency, but an additional Re-Use Discharge Limitations Table was added for the Quarterly reporting period, based on current Division permit formatting standards, along with the following changes:

pH, maximum, with a “Daily Maximum” base, a “Less than or Equal to 9 Standard Units (S.U.)” concentration, a “Prior to Reuse” monitoring location, a “Quarterly” measurement frequency, and a “Discrt” sample type.

pH, minimum, with a “Daily Minimum” base, a “Greater than or Equal to 6 Standard Units (S.U.)” concentration, a “Prior to Reuse” monitoring location, a “Quarterly” measurement frequency, and a “Discrt” sample type.

Nitrogen, total, with a “Daily Maximum” base, a “Greater than or Equal to 10 Milligrams per Liter (mg/L)” concentration, a “Prior to Reuse” monitoring location, a “Quarterly” measurement frequency, and a “Discrt” sample type.

Technology Based Effluent Limitations
Technology based effluent limitations are not applicable to this permit.

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)
Proposed water quality based effluent limitations are not applicable to this permit.

Basis for Effluent Limitations
Fecal coliform is required to be monitored to assess the quality of reclaimed water being applied and for the protection of human health and the environment.

pH is required to be monitored to access the quality of the reclaimed water being applied for the protection of groundwater of the State.

Anti-backsliding
None of the proposed permit limits were changed to a less restrictive limit compared to those in the previous permit.

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. 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 below.

SA – Special Approvals / Conditions Table

Item #	Description
1	Reclaimed water should not be applied during storm, snow, or freezing events that could cause any type of puddling formations to occur.
2	All dust control activities shall be carried out in a way that minimizes exposure to workers and anyone present at the facility during discharge activities.
3	The Permittee shall provide a copy of a document describing the possible hazards and proper hygiene of working with and around reclaimed water to all workers and other affected personnel. A copy of this

Item #	Description
	document shall be included in the facility's RWMP Manual.

Discharges From Future Outfalls/ Planned Facility Changes
There are no planned discharges from future outfalls or facility changes.

Corrective Action Sites
There are no active Bureau of Corrective Actions (BCA) remediation sites within a one-mile radius of the site.

Wellhead Protection Program
The outfall is 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 (2) copies (one hard copy and one electronic copy) of a Reclaimed Water Management Plan (RWMP) to the Division for review and approval. The RWMP shall follow the Division's guidance document WTS1B: General Design Criteria for Preparing a Reclaimed Water Management Plan.	11/1/2025

Deliverable Schedule:

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

Item #	Description	Interval	First Scheduled Due Date
1	Quarterly DMRs	Quarterly	10/28/2025
2	Annual Report	Annually	1/28/2026

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. **6/30/2025,** 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: **5/21/2025**
Title: **Staff II Engineer**