FACTSHEET
(pursuant to NAC 445A.236)

Permittee Name: RUBY PIPELINE LLC

4200 W. 115TH STREET, SUITE 350
TOWANDA, KS 662112609

Permit Number: NS2010515

Permit Type: GROUNDWATER DISCHARGE

Designation: GROUNDWATER

New/Existing: EXISTING

Location: DESERT VALLEY COMPRESSOR STATION, HUMBOLDT
15855 BOTTLE CREEK ROAD, WINNEMUCCA, NV 89445
LATITUDE: 41.447222, LONGITUDE: -118.276944
TOWNSHIP: 41N, RANGE: 33E, SECTION: 9

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Latitude	Longitude	Receiving Water
001	INLET TO EVAPORATION POND	External Outfall		41.446206	-118.273887	EVAPORATION POND
002	EVAPORATION POND	External Outfall		41.445984	-118.273724	EVAPORATION POND
003	LEAK DETECTION SUMP	External Outfall	78381/789 64/79224	41.445648	-118.273718	EVAPORATION POND

Permit History/Description of Proposed Action
This is a permit renewal. The permit was originally issued in 2011, renewed in 2017, and administratively continued from 2022 until this renewal. Ruby Pipeline, LLC has applied for the renewal of groundwater discharge permit NS2010515 for the Desert Valley Compressor Station located approximately 43 miles northwest of Winnemucca, in Humboldt County, Nevada.

Since the facility's construction, no discharges have been recorded, except for one instance during the cooling system's startup in 2011, when water was discharged to the evaporation pond. The cooling system, designed to discharge to the evaporation pond, serves as a backup and is intended to provide additional cooling when natural gas volumes reach a certain threshold, in conjunction with ambient temperatures exceeding 100°F for extended periods.

Facility Overview
Well water is desalinated using a Reverse Osmosis (RO) system, with the rejection flow directed to the evaporation pond and the permeate (product) water sent to the cooling towers. Cooling water is used for temperature control of the compression equipment. Spent cooling tower water, along with the RO reject flow, will be discharged into an on-site, double-lined evaporation pond equipped with a leak detection system. No other process streams are discharged into this pond.

The evaporation pond is located approximately 100 feet east of the compressor station. The pond is an 18,295 square foot basin 3 feet deep. The upper liner is 60 mil high density polyethylene (HDPE) and the secondary liner is 50 mil HDPE. The leak detection collection pipes report to a pre-cast manhole cover for ease of inspection and access.

Outfall Summary
Outfall 001: RO Reject Water and Spent Cooling Tower Water Inlet to Evaporation Pond
Outfall 002: Desert Valley Compressor Station Evaporation Pond Water Outfall
Outfall 003: Leak Detection Sump Outfall

Effluent Characterization
As part of the permit renewal process, Nevada State Network Discharge Monitoring Report (NetDMR) data from July 2018 to June 2024 was reviewed. Since the facility's construction, no discharges have been recorded. The only occurrence of water being discharged to the evaporation pond from the cooling system took place during its startup in 2011. The cooling system, designed to discharge to the evaporation pond, serves as a backup system. It is intended to provide additional cooling when natural gas volumes reach a certain threshold, in conjunction with ambient temperatures exceeding 100°F for extended periods. To date, these conditions have not occurred, but the cooling system is maintained in case additional cooling becomes necessary, thus necessitating the permit.

Pollutants of Concern
Pollutants of concern are any substances or parameters that are believed to be present in the discharge and could impact the physical, chemical, or biological condition of the receiving water. Pollutants of concern include Total Dissolved Solids (TDS), metals, and pH levels.

Receiving Water
The receiving water is the Groundwater of the State. Under normal operating conditions, the double-lined evaporation pond has zero discharge to groundwater. However, in the event of a pond liner failure, discharge could potentially reach groundwater. The depth of groundwater is 50 feet.

Compliance History
The facility was in substantial compliance during the July 2018 to June 2024 reporting period.

Proposed Effluent Limitations
The discharge will be limited per the limits described in the table below.

Zero Discharge Limitations Table for Sample Location 001 (Inlet To Evaporation Pond) To Be Reported Monthly

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Flow rate	30 Day Average	<= 3100 Gallons per Day (gal/d)		Internal Monitoring Point	001	Daily When Discharging	ESTIMA
Flow rate	Daily Maximum	<= 5700 Gallons per Day (gal/d)		Internal Monitoring Point	001	Daily When Discharging	ESTIMA

Zero Discharge Limitations Table for Sample Location 001 (Inlet To Evaporation Pond) To Be Reported Quarterly

	Discharge Limitations			Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Solids, total dissolved	Daily Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	001	Quarterly	DISCRT
pH, maximum	Daily Maximum		M&R Standard Units (SU)	Internal Monitoring Point	001	Quarterly	DISCRT
pH, minimum	Daily Minimum		M&R Standard Units (SU)	Internal Monitoring Point	001	Quarterly	DISCRT

Zero Discharge Limitations Table for Sample Location 002 (Evaporation Pond) To Be Reported Annually[1]

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Thallium, total (as Tl)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	COMPOS
Silver, total (as Ag)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	COMPOS
Selenium, total (as Se)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	COMPOS
Nickel, total (as Ni)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	COMPOS
Mercury, total (as Hg)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	COMPOS
Lead, total (as Pb)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	COMPOS
Copper, total (as Cu)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	COMPOS
Chromium, total (as Cr)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	COMPOS
Cadmium, total (as Cd)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	COMPOS
Beryllium, total (as Be)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	COMPOS
Arsenic, total (as As)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	COMPOS
			M&R				

Zero Discharge Limitations Table for Sample Location 002 (Evaporation Pond) To Be Reported Annually[1]

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Antimony, total (as Sb)	Daily Maximum		Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	COMPOS
Zinc, total (as Zn)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	COMPOS
Solids, total dissolved	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	COMPOS
pH, maximum	Daily Maximum		M&R Standard Units (SU)	Effluent Gross	002	Annual	COMPOS
pH, minimum	Daily Minimum		M&R Standard Units (SU)	Effluent Gross	002	Annual	COMPOS

Notes (Zero Discharge Limitations Table):

1. A composite sample shall be obtained by combining equal volumes of liquid taken from each corner of the evaporation pond.

Zero Discharge Limitations Table for Sample Location 003 (Leak Detection Sump) To Be Reported Monthly

	Discharge Limitations			Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Liner Leakage Rate[1]	Daily Maximum	<= 500 Gallons per Acre per Day (gal/acre/d)		Internal Monitoring Point	003	Monthly	METER

Notes (Zero Discharge Limitations Table):

1. If the leakage rate exceeds 500 gallons per acre per day, the Permittee shall contact the Bureau of Water Pollution Control's Technical, Compliance, and Enforcement Branch.

Summary of Changes From Previous Permit
The semi-annual reporting table was removed, and pH and TDS reporting is now required on an annual basis.

A special approval was added concerning the submission of DMRs and water sampling in the absence of discharge.

TDS and pH monitoring from Outfall 003 Leak Detection Sump have been discontinued, as these parameters are now monitored in the pond water, eliminating the need for duplication at both locations.

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

Basis for Effluent Limitations
These constituents are expected to be present in the process wastewater; therefore, the proposed permit requires the Permittee to sample for these contaminants, as they are included in the Profile I list:

Flow: Process water flow to the evaporation pond is monitored via flow meters to ensure that the fluid level in the pond remains appropriate.

TDS: The process water and pond contents are sampled for Total Dissolved Solids (TDS). This parameter is monitored to assess the quality of the pond supernatant in case of a catastrophic liner leak.

pH: The process water and pond contents are sampled for pH. This parameter is monitored to gather information on the pond supernatant quality in the event of a catastrophic liner failure.

Metals: The pond contents are sampled annually for thirteen metals. These parameters are monitored to evaluate the quality of the pond supernatant in case of a liner leak.

Leak Detection Sump: The pond sump is pumped and totalized monthly. This allows the Permittee and the Division to detect excess leakage and ensures timely repairs to the liner when necessary.

Leak Detection Sump: On a monthly basis, the pond sump is pumped and totalized. The leakage rate is 500 gallons per acre per day. This will allow the Permittee and the Division to determine if excess leakage is present, and ensures that appropriate liner repairs are made on a timely basis.

Anti-backsliding

To prevent backsliding, effluent limitations in reissued permits must be at least as stringent as those in the previous permit. Backsliding has not occurred in this permit, as the limits have remained unchanged, with a few exceptions.

Due to the low frequency of discharge and the facility's compliance with pH and TDS requirements, the semi-annual reporting table has been removed. pH and TDS reporting is now required on an annual basis.

Antidegradation

The Division has developed an antidegradation regulation that is applied on a statewide basis and meets the statutory requirements of Nevada's water pollution control law found in Nevada Revised Statute (NRS) 445A.520 and NRS 445A.565. It is also consistent with the federal antidegradation policy found 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 maintain the unique attributes, special characteristics, and water quality associated with high-quality waters.

Since this permit is for potential discharges to groundwater and not surface water, the new antidegradation rule is not applicable. Currently, there are no specific water quality standards that have been formally adopted by the State for groundwater. However, discharging to an evaporation pond does not indicate a potential for groundwater degradation from the RO reject water and spent cooling water discharged within the compliance limits of the proposed permit.

Special Conditions

Special conditions and special approval are outlined in the table below:

SA – Special Approvals / Conditions Table

Item #	Description
1	If no discharge occurs, no lab sample is required, and the permittee shall report NODI Code "C" = No Discharge in NetDMR.

Discharges From Future Outfalls/ Planned Facility Changes

The Permittee does not anticipate discharges from future outfalls or any changes to the facility.

Corrective Action Sites

There are no Bureau of Corrective Actions sites located within a 1-mile radius of this site.

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 (2) copies of an updated Operations and Maintenance (O&M) Manual for review and approval by the Division. One copy shall be submitted as a hard copy, and the second copy shall be submitted in electronic format. 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. If the most recent O&M Manual was submitted to and approved by NDEP within the ten (10) years preceding the permit issuance date, he Permittee shall submit a letter confirming that no changes have occurred.	10/1/2025

Deliverable Schedule:

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

Item #	Description	Interval	First Scheduled Due Date
1	Quarterly Reports	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. **5/1/2025,** 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: **3/25/2025**
Title: **Environmental Engineer**