NEVADA DIVISION OF
ENVIRONMENTAL
PROTECTION

A division of the
Nevada Department of Conservation & Natural Resources

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FACTSHEET
(pursuant to NAC 445A.236)

Permittee Name: GOLD RANCH CASINO

PO BOX 160
VERDI, NV 89439

Permit Number: NS0094008

Permit Type: GROUNDWATER DISCHARGE

Designation: GROUNDWATER

New/Existing: EXISTING

Location: GOLD RANCH WASTEWATER TREATMENT FACILITY, WASHOE
600 FT. WEST OF EXIT 2, I-80, VERDI, NV 89439
LATITUDE: 39.49947670, LONGITUDE: -119.999510
TOWNSHIP: T19N, RANGE: R18E, SECTION: S17

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Latitude	Longitude	Receiving Water
001	INFLUENT	Internal Outfall		39.4767	-119.999510	NOT APPLICABLE
002	EFFLUENT	External Outfall		39.50336840	-120.000870	GROUNDWATER
003	MONITORING WELL - MW01	Monitoring Well		39.503833	-120.000217	GROUNDWATER
004	MONITORING WELL - MW02	Monitoring Well		39.503733	-120.000750	GROUNDWATER

Permit History/Description of Proposed Action

The Permittee, Gold Ranch Casino, has applied for the renewal of Permit NS0094008 for the Gold Ranch Wastewater Treatment Plant (WWTP), at 310 Gold Ranch Road, approximately 600 feet west of Interstate 80 Exit 2 in Verdi, within Washoe County, Nevada. The Permittee proposes to continue discharging secondary-treated, denitrified wastewater to a soil absorption field (leach field).

This permit was first issued on September 17, 1999. The most recent permit was issued on December 26, 2016, and expired on December 25, 2021; the permit has been administratively continued since.

Facility Overview

Gold Ranch Casino & RV Park is located at 320 Gold Ranch Rd. in Verdi, north of the WWTP. The casino's property management contracts SPB Utilities to operate a HydroAerobics^{TM} WWTP. The facility was originally sized to treat 50,000 gallons per day (Gal/d) of domestic sewage. The system is only authorized to operate at 25,000 Gal/d, in accordance with the assessed treatment capability of the package plant and the capacity of the leach fields. Domestic wastewater includes flows from casino restrooms, restaurants, a convenience store, coffee shop, California Lottery retailer and a 105-space RV Park with central comfort station.

Domestic sewage is received from three lift stations that serve the casino, fast food restaurant, and

recreational vehicle (RV) Park. The lottery office, located at the Nevada/California state line, is serviced by the RV park's lift station. The casino complex is connected to the main lift station. Two gravity sewer lines exit the casino/restaurant. One line serves the culinary facilities and flows through an 8,000-gallon grease interceptor before terminating at the lift station. The second line serves the remainder of the casino and related areas of the main building. This line also terminates at the main lift station. The main lift station is a duplex unit equipped with grinder pumps and capable of passing two-inch solids. The main casino lift station discharges into a 1200-foot long, four-inch poly-vinyl chloride (PVC) force main that terminates at the treatment plant site. On the north side of the main casino complex is a fast-food restaurant which is equipped with its own lift station. The force main from the restaurant is less than fifty-feet in length and ties directly into the 1200-foot casino complex force main line. The duplex unit is equipped with pumps. A full-service RV park with 105 spaces is located to the south side of the main complex. The site consists of nearly 500 feet of gravity sewers that serve the RV park spaces and office area. All the RV wastewater is collected at a single duplex lift station with two pumps. Both pumps are equipped with an hour meter and cycle counters. Both pumps discharge into a common 750-foot force main that parallels the 1200-foot main lift station force main. Both force mains join just a few feet before terminating at the inlet to the Gold Ranch Casino's WWTP.

The WWTP was manufactured in 1994 and was later modified to include anoxic, aeration and clarification compartments in the main tank (denitrification* compartment in bypass). The main unit of the modified package WWTP now includes zones for anoxic denitrification (submerged mixer), extended aeration (coarse bubble diffusion), secondary clarification, and effluent pumping. Return Activated Sludge (RAS) can be returned to the anoxic compartment, or alternatively, a modified sludge holding tank. Repurposed from an anoxic up flow denitrification filter (e.g., methanol addition), the sludge holding tank now serves dual purposes of flow-through sludge thickening and storage of Waste Activated Sludge (WAS). By returning a thickened RAS stream to anoxic, better utilization of the biomass and less solids hauling has been observed. The smaller nitrification tank was repurposed as a sludge thickener unit, which allows for extra WAS storage. WAS is pumped semi-annually by a vacuum truck service and taken offsite for disposal or land application.

*Note: Nitrogen reduction occurs in the anoxic compartment (mixed liquor return), aeration compartment (blower cycling), and to a limited degree, in the sludge thickener tank (air off, sludge denitrification).

Secondary-treated effluent is discharged into one of two onsite leach fields. The original disposal field included twelve, 75-linear foot (lf) trenches. In 2001, an expansion leach field, consisting of twelve additional 100-lf trenches, was added. The operator rotates between the two fields monthly, with one being dosed and the other resting. The WWTP and leach fields are configured approximately 0.25-mile west, topographically upgradient, of the Truckee River. Effluent from the WWTP is pumped into a dosing tank with two bell siphons. Under normal operation, effluent is dosed from the siphons into the original leach field and then distributed through the trenches. When the original field is saturated or offline, effluent overflow in the dosing tank is routed into the expansion leach field.

There are two monitoring wells (MW01 and MW02), with MW01 located upgradient of the WWTP and MW02 being downgradient, both which are sampled quarterly to determine whether the groundwater is impacted by the leach field activities. MW01 (upgradient well) is sited on the Nevada side. This parcel is indicated to be developed into a residential lot. The future residence will be on the California side (Sierra Lane). If a new home is built on a septic system (ISDS), MW01 will then be located downgradient of the residential leach field.

There are also two sand and oil interceptors that collect runoff from paved areas of the rear parking lots and discharge the effluent onsite at surface level through outlet pipes discharging onto unpaved areas.

Outfall Summary

Outfall 001 – This internal outfall is for measuring and monitoring the domestic sewage (Influent) flowing into the Gold Ranch Casino's WWTP.

Outfall 002 - This external outfall is for the measurement of the treated effluent being diverted to the leach fields.

Outfall 003 – This upgradient monitoring well (MW-1) outfall is for monitoring groundwater conditions near the leach field.

Outfall 004 – This downgradient monitoring well (MW-2) outfall is for monitoring groundwater conditions near the leach field.

Facility Upgrades since last issued permit
Facility upgrades include the addition of a mixer in the anoxic basin and a flow-through thickener for sludge wasting (completed in 2020), a replacement cap and lock added to MW-2 (completed in 2025), along with weed management over the leach field area (completed in 2025).

Solids Handling
WAS is thickened and hauled twice yearly by a vacuum truck service for either disposal at the Truckee Meadows Water Reclamation Facility (TMWRF), located in East Sparks, or for land application to forage crops at Carico Farms in Lovelock.

Effluent Management and Reuse
The secondary-treated effluent is released into a leach field where it infiltrates into the groundwater. There is currently no reuse of the treated wastewater.

Design Flow (and basis) and Measurement & Current Capacity
Design capacity for the clarifier is 50,000 gallons per day (Gal/d) with the leach fields each having a hydraulic capacity of 10,400 gallons per day.

Permitted flow rate is limited to 0.025 million gallons per day (Mgal/d), with 0.018 Mgal/d reported. Based on the reported flow rate, as compared to the permitted, the plant is at approximately 72% capacity.

Pretreatment Program
The Gold Ranch Casino's WWTP does not meet the federal Environmental Protection Agency's (EPA's) guidelines requiring them to have a pretreatment program.

Operations & Maintenance (O&M) Manual status
The Gold Ranch Casino WWTP’s Operation & Maintenance (O&M) Manual was last reviewed and approved on October 1, 2017. The Technical, Compliance, and Enforcement Branch of the Bureau of Water Pollution Control requires O&M Manuals to be updated every ten (10) years, with an updated O&M Manual due October 1, 2027.

Effluent Characterization
Nevada State Network Discharge Monitoring Report (NetDMR) data, as reported from January 2021 to December 2025, was reviewed as part of this permit renewal process. The Gold Ranch WWTP discharges secondary treated, denitrified wastewater.

There were ten exceedances of the permitted flow rate, four exceedances of 5-day biochemical oxygen demand (BOD5), sixteen exceedances of the total nitrogen limit, 1 exceedance of pH (both minimum and maximum), and four exceedances of the total suspended solids (TSS) limit reported during the period reviewed. Permittee responded to questions of concern regarding exceedances stating that equipment was older causing overage issues. Equipment has since be replaced.x

The following reported averages were taken from January 2021 to December 2025 reporting period:

Abbreviations:
Depth – Depth to water level feet below land surface
TDS – Total Dissolved Solids

Water Level - Water Level relative to average mean sea level
mg/L – Milligrams per Liter
Mgal/d – Million Gallons per Day
S.U. – Standard Units
MW – Monitoring Well

Outfall 001 (Influent):
Flow Rate: 0.018 Mgal/d

Outfall 002 (Effluent):
BOD5: 16.99 mg/L
Nitrogen, total: 9.68 mg/L
pH: 7.7 S.U.
TSS: 12.87 mg/L

Outfall 003 (Monitoring Well MW-1):
Chloride: 25.57 mg/L
Depth: 45.63 Feet
Nitrate as N: 1.05 mg/L
Nitrogen, total: 1.50 mg/L
TDS: 261.67 mg/L
Water Level: 4,899 Feet

Outfall 004 (Monitoring Well MW-2):
Chloride: 39.98 mg/L
Depth: 42.71 Feet
Nitrate as N: 1.21 mg/L
Nitrogen, total: 1.79 mg/L
TDS: 257.58 mg/L
Water Level: 4,077 Feet

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. Common pollutants of concern for the treated wastewater are:

Effluent – BOD5, Nitrogen, and pH, along with potential inorganic chemicals and metals (Profile 1 constituents).

Monitoring Wells: Chloride, Nitrogen, and TDS.

Receiving Water
Receiving water is groundwater of the State via infiltration from two leach fields.

Compliance History
The Gold Ranch Casino's WWTP has been in compliance with reporting with some overages in parameter concentrations.

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 - Internal Outfall) To Be Reported Monthly

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Flow rate	Daily Maximum	<= 0.025 Million Gallons per Day (Mgal/d)		Raw Sewage Influent	001	Continuous	METER
Flow rate	Monthly Average	<= 0.025 Million Gallons per Day (Mgal/d)		Raw Sewage Influent	001	Continuous	METER
BOD, 5-day[1]	Daily Maximum		M&R Milligrams per Liter (mg/L)	Raw Sewage Influent	001	Biweekly	DISCRT
BOD, 5-day[1]	Monthly Average		M&R Milligrams per Liter (mg/L)	Raw Sewage Influent	001	Biweekly	DISCRT
Solids, total suspended[1]	Daily Maximum		M&R Milligrams per Liter (mg/L)	Raw Sewage Influent	001	Biweekly	DISCRT
Solids, total suspended[1]	Monthly Average		M&R Milligrams per Liter (mg/L)	Raw Sewage Influent	001	Biweekly	DISCRT

Notes (WWTP Discharge Limitations Table):

1. Sampling should be done concurrently with the effluent (Outfall 002) sampling to determine actual removal rates achieved for Biochemical Oxygen Demand, 5-day (BOD5) and Total Suspended Solids (TSS).

WWTP Discharge Limitations Table for Sample Location 002 (Effluent - External Outfall) To Be Reported Monthly

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
BOD, 5-day[1]	Daily Maximum		<= 45 Milligrams per Liter (mg/L)	Effluent Gross	002	Biweekly	DISCRT
BOD, 5-day[1]	Monthly Average		<= 30 Milligrams per Liter (mg/L)	Effluent Gross	002	Biweekly	DISCRT
Nitrogen, total	Daily Maximum		<= 10 Milligrams per Liter (mg/L)	Effluent Gross	002	Biweekly	DISCRT
pH, maximum	Daily Maximum		<= 9 Standard Units (SU)	Effluent Gross	002	Biweekly	DISCRT
pH, minimum	Daily Minimum		>= 6 Standard Units (SU)	Effluent Gross	002	Biweekly	DISCRT
Solids, total suspended[1]	Daily Maximum		<= 45 Milligrams per Liter (mg/L)	Effluent Gross	002	Biweekly	DISCRT
Solids, total suspended[1]	Monthly Average		<= 30 Milligrams per Liter (mg/L)	Effluent Gross	002	Biweekly	DISCRT
BOD, 5-day, percent removal	Monthly Average Minimum		>= 85 Percent (%)	Effluent Gross	002	Biweekly	CALCTD
Solids, suspended percent removal	Monthly Average Minimum		>= 85 Percent (%)	Effluent Gross	002	Biweekly	CALCTD

Notes (WWTP Discharge Limitations Table):

1. Sampling should be done concurrently with the influent (Outfall 001) to determine actual removal rates achieved for Biochemical Oxygen Demand, 5-day (BOD5) and Total Suspended Solids (TSS).

WWTP Discharge Limitations Table for Sample Location 002 (Effluent - External Outfall) 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 CaCO3)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Once Per Permit Term	DISCRT
Alkalinity, total (as CaCO3)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Once Per Permit Term	DISCRT
Aluminum, dissolved (as Al)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Once Per Permit Term	DISCRT
Antimony, dissolved (as Sb)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Once Per Permit Term	DISCRT
Arsenic, dissolved (as As)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Once Per Permit Term	DISCRT
Barium, dissolved (as Ba)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Once Per Permit Term	DISCRT
Beryllium, dissolved (as Be)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Once Per Permit Term	DISCRT
Cadmium, dissolved (as Cd)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Once Per Permit Term	DISCRT
Calcium, dissolved (as Ca)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Once Per Permit Term	DISCRT
Chloride (as Cl)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Once Per Permit Term	DISCRT
Chromium, dissolved (as Cr)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Once Per Permit Term	DISCRT
			M&R				

WWTP Discharge Limitations Table for Sample Location 002 (Effluent - External Outfall) 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		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Once Per Permit Term	DISCRT
Iron, dissolved (as Fe)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Once Per Permit Term	DISCRT
Lead, dissolved (as Pb)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Once Per Permit Term	DISCRT
Magnesium, dissolved (as Mg)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Once Per Permit Term	DISCRT
Manganese, dissolved (as Mn)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Once Per Permit Term	DISCRT
Mercury, dissolved (as Hg)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Once Per Permit Term	DISCRT
Nitrite plus nitrate total 1 det. (as N)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Once Per Permit Term	DISCRT
Potassium, dissolved (as K)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Once Per Permit Term	DISCRT
Selenium, dissolved [as Se]	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Once Per Permit Term	DISCRT
Silver, dissolved (as Ag)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Once Per Permit Term	DISCRT
			M&R				

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

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Sodium, dissolved (as Na)	Daily Maximum		Milligrams per Liter (mg/L)	Effluent Gross	002	Once Per Permit Term	DISCRT
Sulfate, total (as SO4)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Once Per Permit Term	DISCRT
Thallium, dissolved (as Tl)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Once Per Permit Term	DISCRT
Solids, total dissolved	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Once Per Permit Term	DISCRT
Uranium, natural, total	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Once Per Permit Term	DISCRT
Cyanide, weak acid, dissociable	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Once Per Permit Term	DISCRT
Zinc, dissolved (as Zn)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Once Per Permit Term	DISCRT

Groundwater Monitoring Wells Table for Sample Location 003 (Upgradient Monitoring Well - Mw01) To Be Reported Quarterly

	Discharge Limitations			Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Chloride (as Cl)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	003	Quarterly	DISCRT
Depth to water level ft below landsurface[1]	Daily Minimum	M&R Feet (ft)		Groundwater	003	Quarterly	VISUAL
Nitrogen, total	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	003	Quarterly	DISCRT
Solids, total dissolved	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	003	Quarterly	DISCRT
Water level relative to mean sea level[2]	Daily Maximum	M&R Feet (ft)		Groundwater	003	Quarterly	CALCTD

Notes (Groundwater Monitoring Wells Table):

1. Depth to groundwater (feet).
2. Groundwater elevation (feet AMSL).

Groundwater Monitoring Wells Table for Sample Location 004 (Downgradient Monitoring Well - Mw02) To Be Reported Quarterly

	Discharge Limitations			Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Chloride (as Cl)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	004	Quarterly	DISCRT
Depth to water level ft below landsurface[1]	Daily Minimum	M&R Feet (ft)		Groundwater	004	Quarterly	VISUAL
Nitrogen, total	Daily Maximum		<= 10 Milligrams per Liter (mg/L)	Groundwater	004	Quarterly	DISCRT
Solids, total dissolved	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	004	Quarterly	DISCRT
Water level relative to mean sea level[2]	Daily Maximum	M&R Feet (ft)		Groundwater	004	Quarterly	CALCTD

Notes (Groundwater Monitoring Wells Table):

1. Depth to groundwater (feet).
2. Groundwater elevation (feet AMSL).

Summary of Changes From Previous Permit
Updated the coordinates for the facility and leach fields to show actual location, based on the NAD 84 Datum/Geodetic System:

The coordinates for the facility (influent) are now:
Latitude 39.4994767, Longitude -119.9995105

With the coordinates for the leach fields (effluent) now being:
Latitude 39.5033684, Longitude -120.0008704

Under Outfall 001 (Influent), To be Reported Monthly, the following additions or changes were made:

ADDED – BOD, 5-day, with a “Daily Maximum” Base, an “M&R Milligrams per Liter (mg/L)” Concentration, a “Raw Sewage Influent” Monitoring Location, a “001” Sample Location, a “Bi-Weekly” Measurement Frequency, and a “Discrt” Sample Type.

ADDED – BOD, 5-day, with a “Monthly Average” Base, an “M&R Milligrams per Liter (mg/L)” Concentration, a “Raw Sewage Influent” Monitoring Location, a “001” Sample Location, a “Bi-Weekly” Measurement Frequency, and a “Discrt” Sample Type.

ADDED – Solids, total suspended, with a “Daily Maximum” Base, an “M&R Milligrams per Liter (mg/L)” Concentration, a “Raw Sewage Influent” Monitoring Location, a “001” Sample Location, a “Bi-Weekly” Measurement Frequency, and a “Discrt” Sample Type.

ADDED – Solids, total suspended, with a “Monthly Average” Base, an “M&R Milligrams per Liter (mg/L)”

Concentration, a “Raw Sewage Influent” Monitoring Location, a “001” Sample Location, a “Bi-Weekly” Measurement Frequency, and a “Discrt” Sample Type.

ADDED – Footnote 1.
1. Sampling should be done concurrently with the effluent (Outfall 002) sampling to determine actual removal rates achieved for Biochemical Oxygen Demand, 5-day (BOD5) and Total Suspended Solids (TSS).

Under Outfall 002 (Effluent) To Be Reported Monthly, the following parameters were added:

ADDED - BOD, 5-Day, percent removal, with a “Monthly Minimum Average” Base, a “>=85 Percent (%)” Concentration, an “Effluent Gross” Monitoring Location, a “002” Sample Location, an “Bi-Weekly” Measurement Frequency, and a “Calctd” Sample Type.

ADDED - Solids, total suspended, percent removal, with a “Monthly Minimum Average” Base, a “>=85 Percent (%)” Concentration, an “Effluent Gross” Monitoring Location, a “002” Sample Location, an “Bi-Weekly” Measurement Frequency, and a “Calctd” Sample Type.

ADDED – Footnote 1.
1. Sampling should be done concurrently with the influent (Outfall 001) to determine actual removal rates achieved for Biochemical Oxygen Demand, 5-day (BOD5) and Total Suspended Solids (TSS).

ADDED - Under Outfall 002 (Effluent) To Be Reported Once a Permit Term, with the following parameters:

ADDED - Profile 1 Parameters, with a “M&R Milligrams per Liter (mg/L)” Concentration, an “Effluent Gross” Monitoring Location, a “002” Sample Location, an “Once a Permit Term” Measurement Frequency, and a “Discrt” Sample Type.

Under Outfalls 003 and 004, Monitoring Wells to be Reported Quarterly, the following parameter was deleted:

DELETED – Nitrate as N, with a “Monthly Maximum” Base.

CHANGED – All the remaining parameters from a “Monthly Maximum” or “Monthly Minimum” Base to a “Daily Maximum” or “Daily Minimum” Base, with the remaining discharge limitations remaining the same as the previous permit.

Technology Based Effluent Limitations
Technology based effluent limitations (TBELs) are required as promulgated by the United States (U.S.) EPA for Publicly Owned Treatment Works (POTWs). The following limits are based on 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. 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. Performance is measured by monitoring biodegradable organics, suspended solids in the effluent, and ensuring pH remains within regulatory limits. Federal secondary treatment standards are defined under 40 CFR 133 for maximum BOD5 as a monthly average of 30 mg/L and a 7-day average of 45 mg/L and for maximum TSS as a monthly average of 30 mg/L and a 7-day average of 45 mg/L. In addition to describing the minimum levels of effluent quality attainable by secondary treatment, 40 CFR 133.102 states that the monthly average percent removal of BOD5 and TSS shall not be less than 85%. The Division has adopted these standards for discharges from treatment facilities, and has applied the same 7-day average thresholds as daily maximum effluent limits for BOD5 and TSS.

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

BOD5: Monthly average limit: <= 30 mg/L; Daily maximum limit: <= 45 mg/L.

TSS: Monthly average limit: <= 30 mg/L; Daily maximum limit: <= 45 mg/L.

pH: Daily Maximum: <= 9.0 Standard Units

pH: Daily Minimum >= 6.0 Standard Units

Limits Based on Secondary Treatment Standards:

BOD5 Percent removal: >= 85 percent.

TSS: Percent removal: >= 85 percent.

Limits Based on Facility's Design Criteria Review:

Permitted monthly average flow rate for influent is limited to <=0.025 Mgal/d.

Permitted daily maximum flow rate for influent is limited to <=0.025 Mgal/d.

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 limits 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 NAC 445A.243, which states, “In establishing an effluent limitation to carry out the policy of this State set forth in Nevada Revised Statutes (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 requirement to monitor the effluent for Profile 1 constituents once per permit term is included 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 permit requires the Permittee to sample these constituents once per term because they are included in the Profile 1 list and have not been previously tested.

The constituents listed in Profile 1 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 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.”

Influent and Effluent Monitoring Requirements:

Bi-weekly influent and effluent monitoring for BOD5 and TSS are included to assess the treatment performance of the WWTP. A bi-weekly sampling frequency for BOD5 and TSS is sufficient for determining compliance with the applicable effluent limitations. Percent removal requirements for BOD5 and TSS are established in the permit as monthly average minimums of 85%, based on secondary treatment standards.

Some wastewater treatment processes can increase or decrease wastewater pH; therefore, bi-weekly monitoring for pH is included in assessing compliance with effluent limits of 6.0 S.U. as a daily minimum and 9.0 S.U. as a daily maximum.

Anti-backsliding
None of the proposed permit limits were changed to a less restrictive limit compared to those in the previous permit, apart from the removal of the requirement to sample and report Nitrate as N, based on a monthly average, from the monitoring well (MW-1 and MW-2) outfalls. The Total Nitrogen (as N) parameter encompasses three forms of nitrogen, including Kjedahl, Nitrite, and Nitrate. Thus, no backsliding will be caused by this removal and allows this permit to adhere to current Division reporting requirements.

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 Title 40 in the 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/Conditions applicable to this permit.

SA – Special Approvals / Conditions Table

There are no Special Approval / Condition items

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

Corrective Action Sites
There are two active Bureau of Corrective Actions (BCA) remediation sites within a one-mile radius of either the WWTP or monitoring wells/leach field area. Both sites are soil contamination of either total petroleum hydrocarbons (D-0000897) or diesel (D-001463). BCA does not feel that the renewal of this application will have any affect on any ongoing activities at those sites.

Wellhead Protection Program
There are Public Water Supply (PWS) well located in a confined aquifer approximately 1500 feet south upgradient to the outfall that has a depth of approximately 700 with a sanitary seal at 60 feet and a screen from 480 to 540, 580 to 620 and 680 to 700 feet. A second well is located 640 feet to the southwest upgradient to the outfall. The outfall is located in the Drinking Water Protection Area of the wells, which is defined by a 3,000-foot radius around a PWS well. The outfall is not located in a Wellhead Protection Area (WHPA), which represents an approximate 10-year capture zone of a well. The wells are at minimal risk based on the confined aquifer and the well gradient and directions from the outfall.

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 Division's guidance document, WTS-2 Minimum Information Required for an Operation and Maintenance Manual and be prepared and wet stamped by a licensed, qualified Nevada engineer (P.E.).	10/1/2027

Deliverable Schedule:

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

Item #	Description	Interval	First Scheduled Due Date
1	Quarterly DMRs	Quarterly	7/28/2026

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. **6/5/2026,** 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.

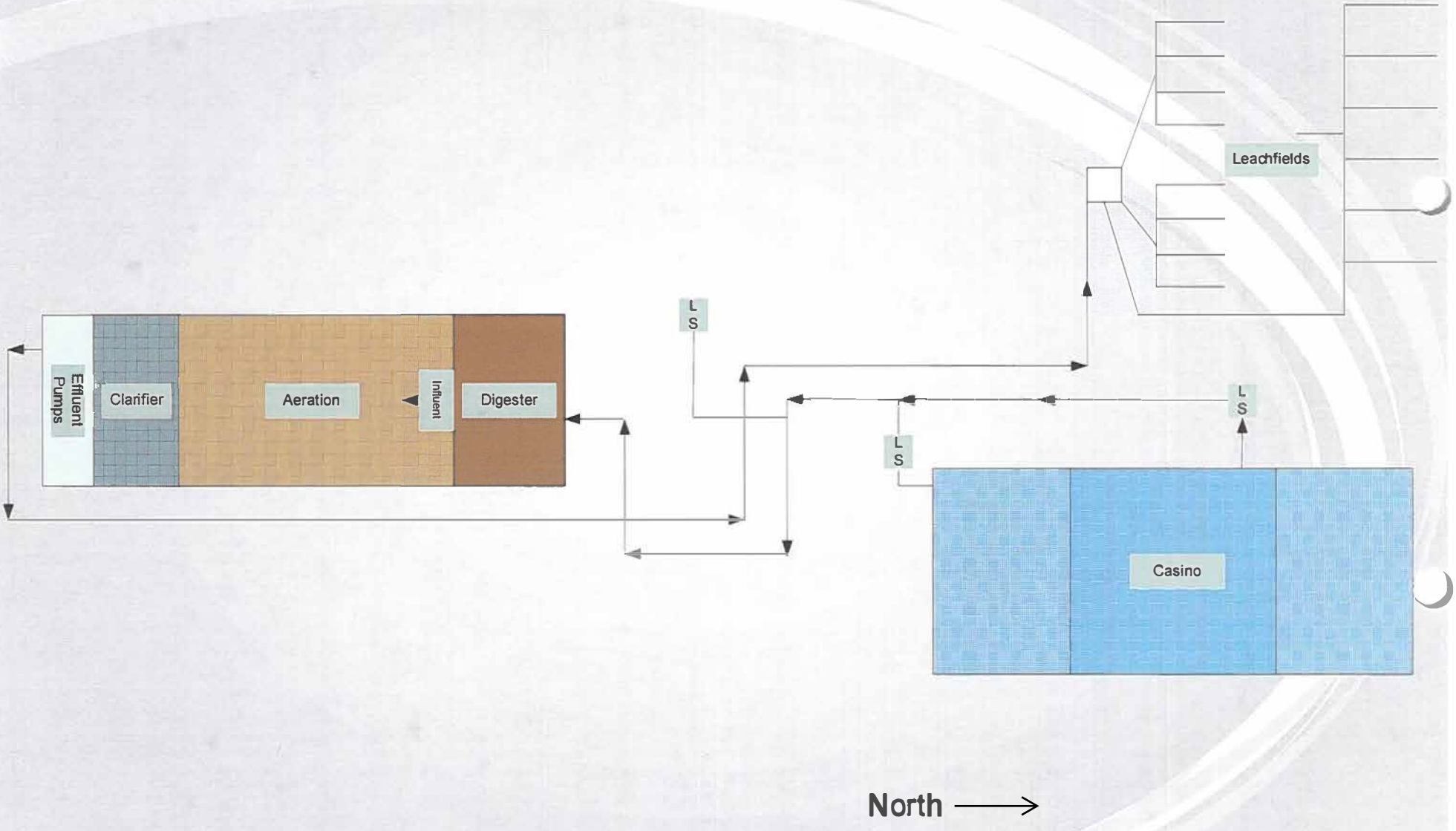
The final determination of the Administrator may be appealed to the State Environmental Commission pursuant to NRS 445A.605.

Proposed Determination:

The Division has made the tentative determination to issue/re-issue the proposed 5-year permit.

Prepared by: **Melissa Hanson**
Date: **5/1/2026**
Title: **Staff II Engineer**

Gold Ranch Casino Process Flow Diagram



LS = Lift Stations