NEVADA DIVISION OF
ENVIRONMENTAL
PROTECTION

A division of the
Nevada Department of Conservation & Natural Resources

STATE OF NEVADA
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FACTSHEET
(pursuant to NAC 445A.236)

Permittee Name: PR RNO PROPERTY OWNER 1, LLC

3200 CHERRY CREEK DRIVE S, STE 700
DENVER, CO 80209

Permit Number: NS2027506

Permit Type: GROUNDWATER DISCHARGE

Designation: GROUNDWATER

New/Existing: NEW

Location: RNO10 PERU RIDGE, STOREY
2220 PERU DRIVE, MCCARRAN, NV 89437
LATITUDE: 39.5349, LONGITUDE: -119.4980
TOWNSHIP: 19N, RANGE: 22E, SECTION: 3,10

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Latitude	Longitude	Receiving Water
001	MAKEUP WATER	Internal Outfall		39.5349	-119.4980	N/A
002	EFFLUENT	External Outfall		39.5349	-119.4980	GROUNDWATER
003	POND A	Surface Disposal Site		39.5331	-119.4946	GROUNDWATER
004	POND B	Surface Disposal Site		39.5343	-119.4964	GROUNDWATER
INF	INFLUENT	Internal Outfall		39.5349	-119.4980	N/A

Permit History/Description of Proposed Action

The Permittee, PR RNO Property Owner 1, LLC, has applied for a new groundwater discharge permit for the RNO10 Peru Ridge facility located at 2220 Peru Drive in McCarran, Storey County, Nevada. The Permittee proposes to use potable and reclaimed water supplied by the Tahoe Reno Industrial General Improvement District Wastewater Treatment Plant (TRI-GID WWTP, permit NS2000502) as makeup water for their indirect evaporative cooling system. The supplied reclaimed water meets Category B reuse water in accordance with Nevada Administrative Code (NAC) 445A.276. Reuse water will undergo additional treatment at the on-site advanced water treatment facility prior to being utilized as makeup water for the cooling system. All generated effluent will be discharged to two double-lined ponds for disposal via evaporation. Outside of winter months, evaporation will be supplemented with floating surface evaporators. There shall be no discharge outside of the evaporation ponds.

Facility Overview

The Permittee is constructing a data center facility, referred to as the Peru Ridge Data Center. The facility will occupy approximately 85 acres and will include one data center building and its associated support infrastructure, one advanced water treatment facility, and two evaporation ponds for effluent discharge and disposal. The facility will primarily utilize reuse water supplied by TRI-GID connected through reduced-

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pressure backflow preventer. If needed, the Permittee may obtain potable water from TRI-GID when reclaimed water is insufficient for the facility's demand. Potable water may be blended with reclaimed water in the Raw Water Tank via an air-gap fitting to prevent any possibility of potable water contamination.

The advance water treatment facility will consist of two ultrafiltration (UF) units and one reverse osmosis (RO) unit. Backwash from the primary UF system will be routed to a backwash tank, recovered, and pumped to the secondary UF system. Backwash from the secondary UF system and brine concentrate from the RO process will be discharged to evaporation ponds. To reduce overall water demand, collected blowdown from the cooling system will be recycled through the secondary UF and RO units prior to discharge (see attached process flow diagram). All tanks associated with the treatment system will include manually operated drains that discharge to the evaporation ponds. A clean-in-place (CIP) system will be incorporated into the treatment facility; all CIP rinse water and waste streams will also be discharged to the evaporation ponds.

All additionally treated reuse water will be collected in the Industrial Water Storage Tanks prior to being pumped into the cooling system as makeup water (Outfall 001). The cooling system will be located on the roof of the data center building. Therefore, the Permittee shall implement a robust *Legionella* monitoring program, including regular testing and remediation if needed (see item #2 of the Schedule of Compliance Table). *Legionella* is a pathogenic bacteria that causes disease in humans and commonly spread by inhaling water mist containing the bacteria. Control sequences to drain water from the blowdown sumps and to flush fresh makeup water over the evaporative media pads are implemented to periodically refresh water in the sump and prevent *Legionella* growth. The frequency and duration of the dump-and-flush cycles will be established to reduce *Legionella* risk to nearly zero. Adiabatic coolers discharge humidified air vertically upwards, and this airflow must pass through cooling coils that act as drift/droplet eliminators before being discharged. However, operations personnel responsible for fluid-cooler maintenance may be exposed to *Legionella* and will receive training to further mitigate any *Legionella* hazard.

The evaporation ponds are projected to receive approximately 13.77 million gallons (Mgal) of cumulative effluent annually. These ponds provide a combined storage capacity of approximately 5.49 Mgal. Each pond will have a nominal depth of 9.0 feet, with top surface areas of 0.89 acres for Pond A and 2.51 acres for Pond B. Both ponds will be double-lined, consisting of a primary 60-mil black conductive textured high-density polyethylene (HDPE) geomembrane and a secondary 60-mil HDPE geomembrane. A geocomposite drainage layer and a 16-oz. non-woven geotextile will be installed above the prepared subgrade. Each pond will include an integrated leak collection and recovery system (LCRS) to convey leakage to the leak detection trench and manhole. The 4.0-foot diameter leak detection manhole will be equipped with an ultrasonic level transmitter to monitor accumulated leakage. The monitoring system will allow for calculation and recording of daily leakage rates and volumes. Leakage may be removed from the manhole using a temporary sump pump.

Effluent will be conveyed from the treatment facility via gravity through a 12-inch polyvinyl chloride (PVC) pipeline to Pond A (Outfall 003). When Pond A reaches capacity or when the isolation valve on inlet pipe is closed, flows will be directed into a lift station via a 12-inch PVC pipeline and pumped to Pond B (Outfall 004) through a 12-inch PVC force main. The ponds water balance evaluates effluent inflows, precipitation, storm events, and natural evaporation rate. To maintain proper freeboard, the facility will need to supplement evaporation using floating surface evaporators (RWI PittBoss units) outside of winter months. Up to five (5) units will be installed in Pond A, with four (4) operational and one (1) on standby. Up to 14 units will be installed in Pond B, with up to 12 operational and two (2) on standby.

Outfall Summary

Outfall 001 – This internal outfall is to measure and monitor reuse water after going through the advanced water treatment facility, prior to being utilized as makeup water for the indirect evaporative cooling system.

Outfall 002 – This external outfall is to measure and monitor all effluent generated by the on-site advanced water treatment facility for discharge to evaporation ponds.

Outfall 003 – This outfall is to measure and monitor effluent discharged to Pond A for disposal via

evaporation, including inflow to the LCRS.

Outfall 004 – This outfall is to measure and monitor effluent discharged to Pond B for disposal via evaporation, including inflow to the LCRS.

Outfall INF – This internal outfall is to measure and monitor all raw water (influent), supplied by TRI-GID, combined in the Raw Water Tank before going through the treatment system.

Effluent Characterization
This is a new permit. The effluent will consist of RO reject water, UF backwash, all tank drains, and CIP waste streams.

Pollutants of Concern
Pollutants of concern are any pollutant, or parameters, that are believed to be present in the discharge and could affect or alter the physical, chemical, or biological conditions of the receiving water. Water quality results provided by TRI-GID for treated effluent from the WWTP indicate elevated concentration (above Profile 1 limits) of aluminum, arsenic, and manganese. A common pollutant of concern for reuse water is fecal coliform. Pollutant of concern from potential equipment leaks include total petroleum hydrocarbons (TPH).

Receiving Water
These are non-discharge facilities and in the case of a catastrophic failure, the receiving water is groundwater of the State. The initial geotechnical site investigation, provided with the permit application, indicates that the depth to groundwater is approximately 515 to 760 feet below ground surface.

Compliance History
Not applicable. This is a new permit.

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

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WWTP Discharge Limitations Table for Sample Location Inf (Influent - Raw Water Supply) To Be Reported Monthly[1]

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

Notes (WWTP Discharge Limitations Table):

1. Flow from the Raw Water Tank into the advanced water treatment system.

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Re-use Discharge Limitations Table for Sample Location 001 (Makeup Water For The Indirect Evaporative Cooling System) To Be Reported Monthly

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

Notes (Re-use Discharge Limitations Table):

1. CFU/100mL or MPN/100mL.
2. Sample shall be taken at the sample port located on the Industrial Water Storage Tanks, prior to use in the indirect evaporative cooling system.

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NS OTHER - Discharge Limitations Table for Sample Location 002 (Effluent - Generated From The Advanced Water Treatment Facility For Discharge To Evaporation Ponds) To Be Reported Monthly

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Flow rate	Daily Maximum	<= 0.70 Million Gallons per Day (Mgal/d)		Effluent Gross	002	Continuous	METER
Flow rate	30 Day Average	<= 0.20 Million Gallons per Day (Mgal/d)		Effluent Gross	002	Continuous	METER

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Ponds / Rapid Infiltration Basins for Sample Location 003 (Pond A) To Be Reported Monthly

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Flow rate	Daily Maximum	M&R Million Gallons per Day (Mgal/d)		Effluent Gross	003	Continuous	METER
Flow rate	30 Day Average	M&R Million Gallons per Day (Mgal/d)		Effluent Gross	003	Continuous	METER
Freeboard	Daily Minimum	>= 2.0 Feet (ft)		See Footnote[1]	003	Weekly	VISUAL
Liner Leakage Rate	Daily Maximum	<= 500 Gallons per Acre per Day (gal/acre/d)		See Footnote[2]	003	Monthly	METER

Notes (Ponds / Rapid Infiltration Basins):

1. Graduated depth markings for Pond A. Limit established per Section B.PB.4.3 of the standard condition attached to the discharge permit.
2. Conveyed leakage from trench outlet to Pond A's leak detection manhole. Limit established per Section B.PB.5.5 of the standard condition attached to the discharge permit.

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Ponds / Rapid Infiltration Basins for Sample Location 003 (Pond A) To Be Reported Quarterly[1]

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	003	Quarterly	COMPOS
Alkalinity, total (as CaCO3)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	003	Quarterly	COMPOS
Aluminum, dissolved (as Al)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	003	Quarterly	COMPOS
Antimony, dissolved (as Sb)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	003	Quarterly	COMPOS
Arsenic, dissolved (as As)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	003	Quarterly	COMPOS
Barium, dissolved (as Ba)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	003	Quarterly	COMPOS
Beryllium, dissolved (as Be)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	003	Quarterly	COMPOS
Cadmium, total (as Cd)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	003	Quarterly	COMPOS
Calcium, total (as Ca)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	003	Quarterly	COMPOS
Chloride (as Cl)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	003	Quarterly	COMPOS
Chromium, total (as Cr)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	003	Quarterly	COMPOS
			M&R				

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Ponds / Rapid Infiltration Basins for Sample Location 003 (Pond A) To Be Reported Quarterly[1]

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	003	Quarterly	COMPOS
Cyanide, weak acid, dissociable	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	003	Quarterly	COMPOS
Fluoride, total (as F) [2]	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	003	Quarterly	COMPOS
Hydrocarbons, total petroleum	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	003	Quarterly	COMPOS
Iron, total (as Fe)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	003	Quarterly	COMPOS
Lead, dissolved (as Pb)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	003	Quarterly	COMPOS
Magnesium, dissolved (as Mg)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	003	Quarterly	COMPOS
Manganese, dissolved (as Mn)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	003	Quarterly	COMPOS
Mercury, dissolved (as Hg)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	003	Quarterly	COMPOS
Nitrite plus nitrate total 1 det. (as N)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	003	Quarterly	COMPOS
Nitrogen, total	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	003	Quarterly	COMPOS
pH	Value		M&R Standard Units (SU)	Effluent Gross	003	Quarterly	COMPOS

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Ponds / Rapid Infiltration Basins for Sample Location 003 (Pond A) To Be Reported Quarterly[1]

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Potassium, dissolved (as K)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	003	Quarterly	COMPOS
Selenium, dissolved [as Se]	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	003	Quarterly	COMPOS
Silver, dissolved (as Ag)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	003	Quarterly	COMPOS
Sodium, dissolved (as Na)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	003	Quarterly	COMPOS
Sulfate, total (as SO4)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	003	Quarterly	COMPOS
Thallium, dissolved (as Tl)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	003	Quarterly	COMPOS
Solids, total dissolved	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	003	Quarterly	COMPOS
Uranium, natural, total	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	003	Quarterly	COMPOS
Zinc, dissolved (as Zn)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	003	Quarterly	COMPOS

Notes (Ponds / Rapid Infiltration Basins):

1. Quarterly sample shall be representative of Pond A (i.e., collected from four quadrants of the pond).
2. Sampling and analysis shall be done on the dissolved fraction.

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

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Flow rate	Daily Maximum	M&R Million Gallons per Day (Mgal/d)		Effluent Gross	004	Continuous	METER
Flow rate	30 Day Average	M&R Million Gallons per Day (Mgal/d)		Effluent Gross	004	Continuous	METER
Freeboard	Daily Minimum	>= 3.0 Feet (ft)		See Footnote[1]	004	Weekly	VISUAL
Liner Leakage Rate	Daily Maximum	<= 500 Gallons per Acre per Day (gal/acre/d)		See Footnote[2]	004	Monthly	METER

Notes (Ponds / Rapid Infiltration Basins):

1. Graduated depth markings for Pond B. Limit established per Section B.PB.4.3 of the standard condition attached to the discharge permit.
2. Conveyed leakage from trench outlet to Pond B's leak detection manhole. Limit established per Section B.PB.5.5 of the standard condition attached to the discharge permit.

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Ponds / Rapid Infiltration Basins for Sample Location 004 (Pond B) To Be Reported Quarterly[1]

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	004	Quarterly	COMPOS
Alkalinity, total (as CaCO3)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	004	Quarterly	COMPOS
Aluminum, dissolved (as Al)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	004	Quarterly	COMPOS
Antimony, dissolved (as Sb)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	004	Quarterly	COMPOS
Arsenic, dissolved (as As)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	004	Quarterly	COMPOS
Barium, dissolved (as Ba)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	004	Quarterly	COMPOS
Beryllium, dissolved (as Be)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	004	Quarterly	COMPOS
Cadmium, total (as Cd)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	004	Quarterly	COMPOS
Calcium, total (as Ca)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	004	Quarterly	COMPOS
Chloride (as Cl)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	004	Quarterly	COMPOS
Chromium, total (as Cr)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	004	Quarterly	COMPOS
			M&R				

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Ponds / Rapid Infiltration Basins for Sample Location 004 (Pond B) To Be Reported Quarterly[1]

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	Quarterly	COMPOS
Cyanide, weak acid, dissociable	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	004	Quarterly	COMPOS
Fluoride, total (as F) [2]	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	004	Quarterly	COMPOS
Hydrocarbons, total petroleum	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	004	Quarterly	COMPOS
Iron, total (as Fe)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	004	Quarterly	COMPOS
Lead, dissolved (as Pb)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	004	Quarterly	COMPOS
Magnesium, dissolved (as Mg)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	004	Quarterly	COMPOS
Manganese, dissolved (as Mn)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	004	Quarterly	COMPOS
Mercury, dissolved (as Hg)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	004	Quarterly	COMPOS
Nitrite plus nitrate total 1 det. (as N)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	004	Quarterly	COMPOS
Nitrogen, total	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	004	Quarterly	COMPOS
pH	Value		M&R Standard Units (SU)	Effluent Gross	004	Quarterly	COMPOS

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Ponds / Rapid Infiltration Basins for Sample Location 004 (Pond B) To Be Reported Quarterly[1]

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Potassium, dissolved (as K)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	004	Quarterly	COMPOS
Selenium, dissolved [as Se]	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	004	Quarterly	COMPOS
Silver, dissolved (as Ag)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	004	Quarterly	COMPOS
Sodium, dissolved (as Na)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	004	Quarterly	COMPOS
Sulfate, total (as SO4)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	004	Quarterly	COMPOS
Thallium, dissolved (as Tl)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	004	Quarterly	COMPOS
Solids, total dissolved	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	004	Quarterly	COMPOS
Uranium, natural, total	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	004	Quarterly	COMPOS
Zinc, dissolved (as Zn)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	004	Quarterly	COMPOS

Notes (Ponds / Rapid Infiltration Basins):

1. Quarterly sample shall be representative of Pond B (i.e., collected from four quadrants of the pond).
2. Sampling and analysis shall be done on the dissolved fraction.

Summary of Changes From Previous Permit

Not applicable. This is a new permit.

Technology Based Effluent Limitations

Technology based effluent limitations are not applicable to this permit.

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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 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 Permittee proposes to use reclaimed water from TRI-GID WWTP as makeup water for the indirect evaporative cooling system. The reclaimed water meets Category B bacteriological quality reuse water per NAC 445A.276. Per NAC 445A.2764, Category B reuse water may be used for cooling water in an industrial process. The proposed permit establishes the requirement for fecal coliform to be monitored to assess the quality of reclaimed water to being used (Outfall 001) for the protection of human health and the environment and to ensure Category B bacteriological quality, or higher, is being maintained per NAC 445A.2764. Additionally, the Permittee acknowledges that their proposal to use reclaimed water for their cooling system will not violate NAC 445A.275.2, which states that, "A person shall not use reclaimed water for maintaining a controlled temperature and humidity environment if air that contacts the reclaimed water is delivered to an area that may be occupied."

The requirement to monitor discharged effluent for Profile 1 quarterly is included to evaluate the quality of the effluent and determine whether the effluent has potential to impact the receiving water. Permittee may request to adjust the sampling frequency, see *Item #3* of the *Special Approvals/Conditions Table*. 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.” Although cyanide and uranium are not expected to be present in the effluent, the permit requires the Permittee to sample these constituents because they are included in the Profile 1 list. Ponds will be constructed as non-discharge facilities; therefore, all concentration limits are set to Monitor and Report (M&R) only.

The proposed permit establishes the requirement to sample for TPH due to the potential for equipment leaks.

The Permittee has requested effluent discharge flow rate of 0.70 million gallons per day (Mgal/d) daily maximum and 0.20 Mgal/d 30-day average. The Permittee provided a water balance calculation, stamped by a Nevada registered Professional Engineer, which was reviewed and approved by the Division on October 26, 2026 demonstrating the facility will have adequate disposal volume for proper effluent management.

Anti-backsliding
Not applicable. This is a new 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 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

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water quality associated with high quality surface waters. As this permit is for discharges to groundwater, and not surface water, the antidegradation regulation is not applicable.

Special Conditions
Please see the Special Approvals / Conditions Table below.

SA – Special Approvals / Conditions Table

Item #	Description
1	Section B.PB.4.4 - Staff gauge may be replaced with sidewall depth markings as the method for recording the water level of the evaporation pond. This is still consistent with the *Ten State Standards (2014 Edition)*.
2	All discharge monitoring reports (DMRs) shall be submitted electronically through the Nevada NetDMR system. See Section C.1.3 of the standard conditions attached to the discharge permit.
3	After no less than two (2) years of data has been received and reviewed by the Division, the Permittee may request to have the sampling frequency of Outfall 003 and 004 reduced from quarterly to annually. Based on the data collected, the Division may conduct a minor modification to the permit in order to reduce the sampling frequency.

Discharges From Future Outfalls/ Planned Facility Changes
The Permittee anticipates no discharges from any future outfalls or planned facility changes.

Corrective Action Sites
There are three closed Bureau of Corrective Actions (BCA) remediation sites located within a one-mile radius of the permitted discharge area.

1. Facility name: American Battery Technology Company
   Contaminant type: Other
2. Facility name: F&P Construction Mobile Source
   Contaminant type: Diesel
3. Facility name: Chart Industries, Inc.
   Contaminant type: TPH

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 public water system (PWS) well.

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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 digital copy, of an Operations and Maintenance (O&M) Manual for review and acceptance by the Division. The O&M Manual shall be compiled in accordance with appropriate sections of *WTS-2: Minimum Information Required for an Operations and Maintenance Manual*, and be prepared and wet stamped by a licensed, qualified Nevada engineer (P.E.).	3/1/2027
2	The Permittee shall submit two (2) copies, one hard copy and one digital copy, of a Reclaimed Water Management Plan (RWMP) for review and acceptance by the Division. The RWMP shall be compiled in accordance with appropriate sections of *WTS-1B: General Criteria for Preparing a Reclaimed Water Management Plan*, and be prepared and wet stamped by a licensed, qualified Nevada engineer (P.E.). Due to the source of makeup water for the indirect evaporative cooling system, the RWMP shall include a *Legionella* monitoring program.	3/1/2027

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Deliverable Schedule:

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

Item #	Description	Interval	First Scheduled Due Date
1	Quarterly Discharge Monitoring Reports (DMRs)	Quarterly	4/28/2027
2	Annual Report (see Section C.1.2 of the discharge permit)	Annually	1/28/2028

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. **12/21/2026,** 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.

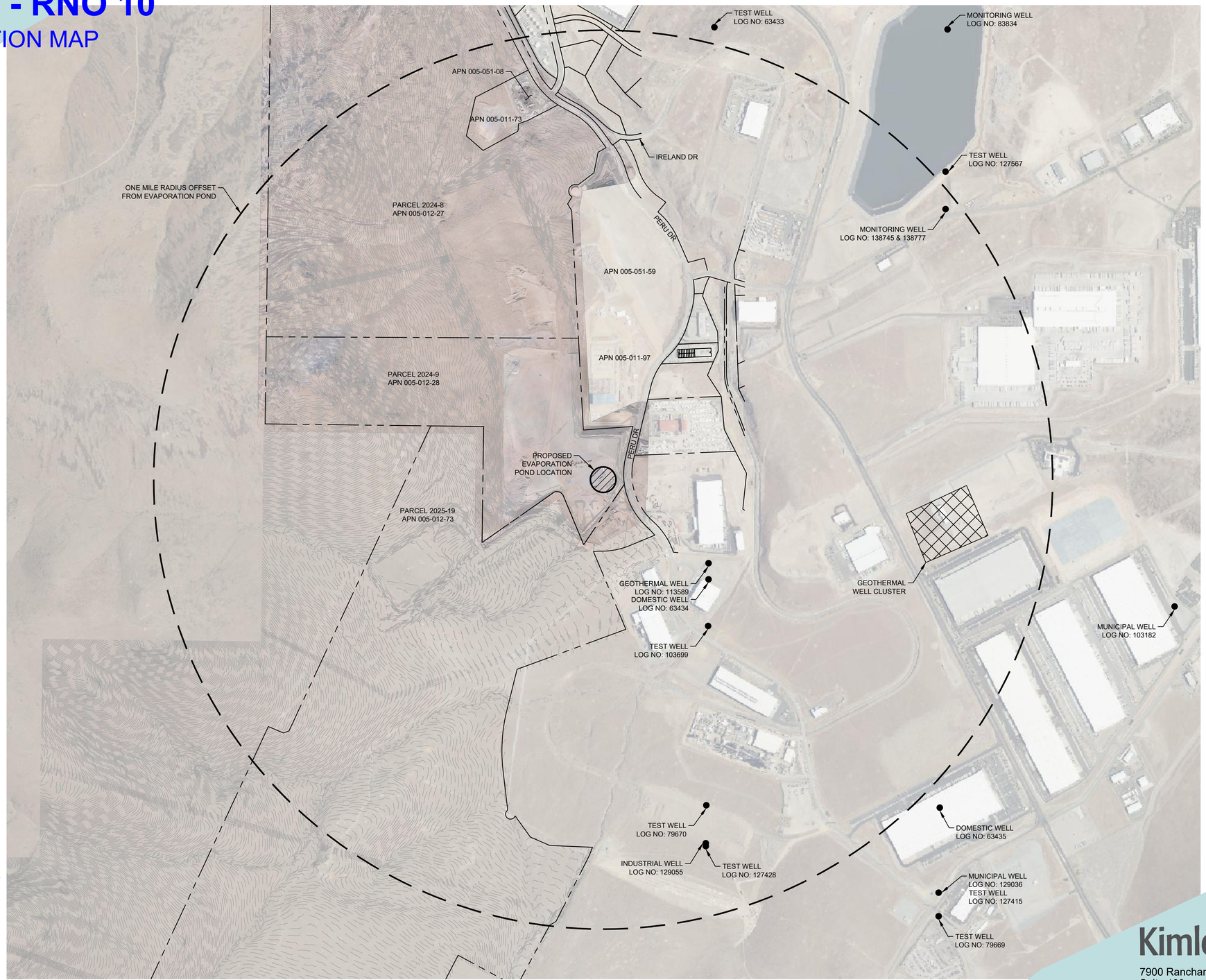
Prepared by: **Florida Nasategay**
Date: **11/18/2026**
Title: **Staff I, Associate Engineer**

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PERU RIDGE - RNO 10

NDEP WELL LOCATION MAP

APRIL 2026



NOTES:

1. EXISTING SITE CONTOURS ARE DISPLAYED IN 5-FOOT INTERVALS.
2. NO CREEKS OR RIVERS ARE WITHIN THE BOUNDS OF THE ONE MILE RADIUS.
3. NO EARTHQUAKE FAULT LINES ARE WITHIN THE BOUNDS OF THE ONE MILE RADIUS.
4. NO WELLHEAD PROTECTION ZONE IS WITHIN THE BOUNDS OF THE ONE MILE RADIUS.
5. DEPTH TO GROUNDWATER TABLE IS APPROXIMATELY 515-760 FEET BELOW GROUND SURFACE PER THE WESTEX SUPPLEMENTAL GEOTECHNICAL EXPLORATION REPORT DATED 02/18/2025.
6. AT LESS THAN 5 FEET DEPTH, THE ENCOUNTERED SOIL STRATA CONTAINS OLD CAMP-ALDAX-ROCK ASSOCIATION AND GRUMBLEN-CEEJAY DOORKISS ASSOCIATION. AT GREATER THAN 5 FEET DEPTH, THE ENCOUNTERED SOIL STRATA IS BEDROCK.
7. PREVAILING WINDS ARE IN THE NORTHWEST DIRECTION.

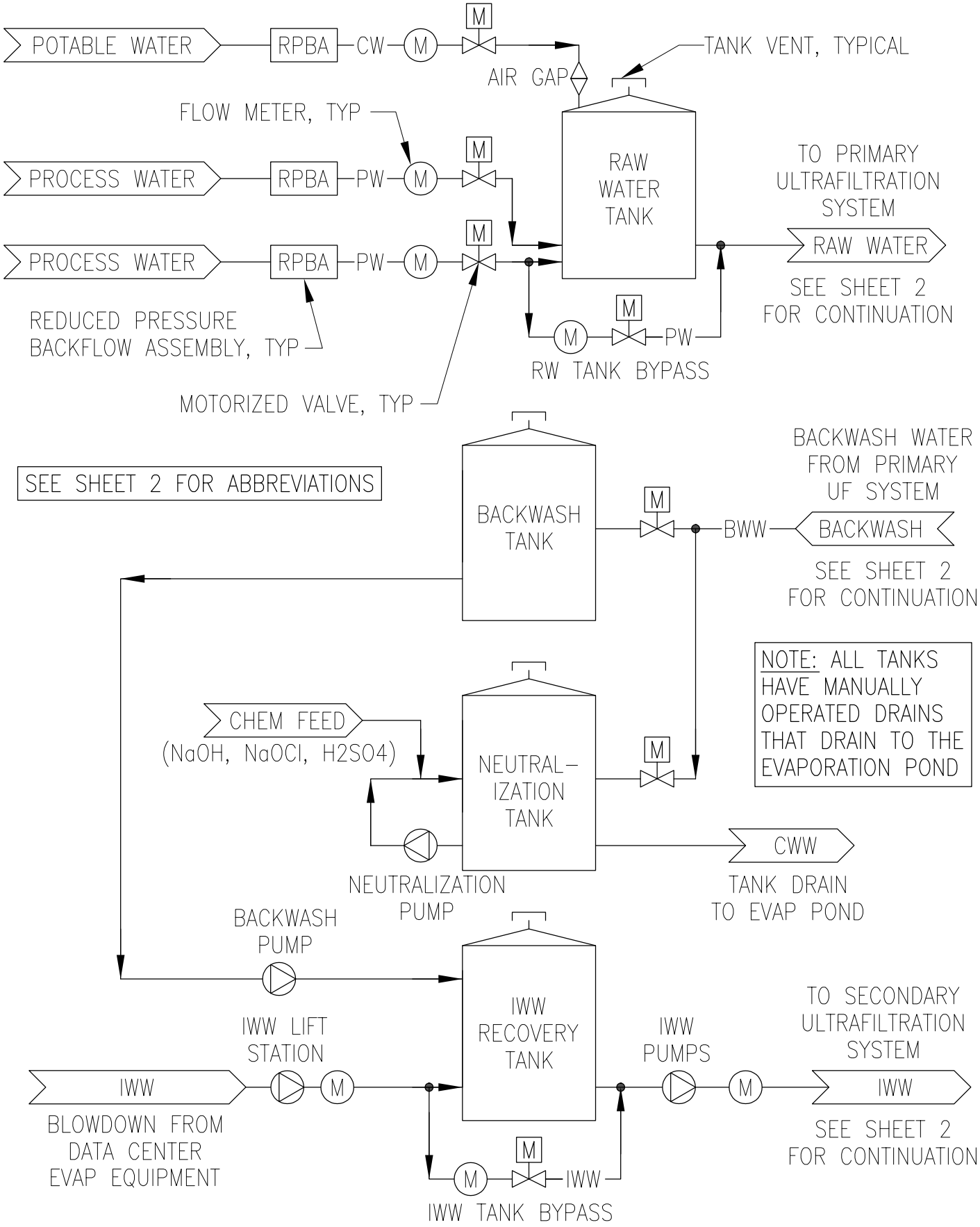
NOTE: THIS PLAN IS CONCEPTUAL IN NATURE

DWG NAME C:\ACC\ACCDOCS\VIA BIM\RNO10\PROJECT FILES\01 - WORK IN PROGRESS (WIP)\10 - SITE (ST)\03 - CIVIL ENGINEERING\EXHIBITS\20260316 - NDEP EVAP POND PERMITTING EXHIBIT\RNO10 NDEP EXHIBIT.DWG

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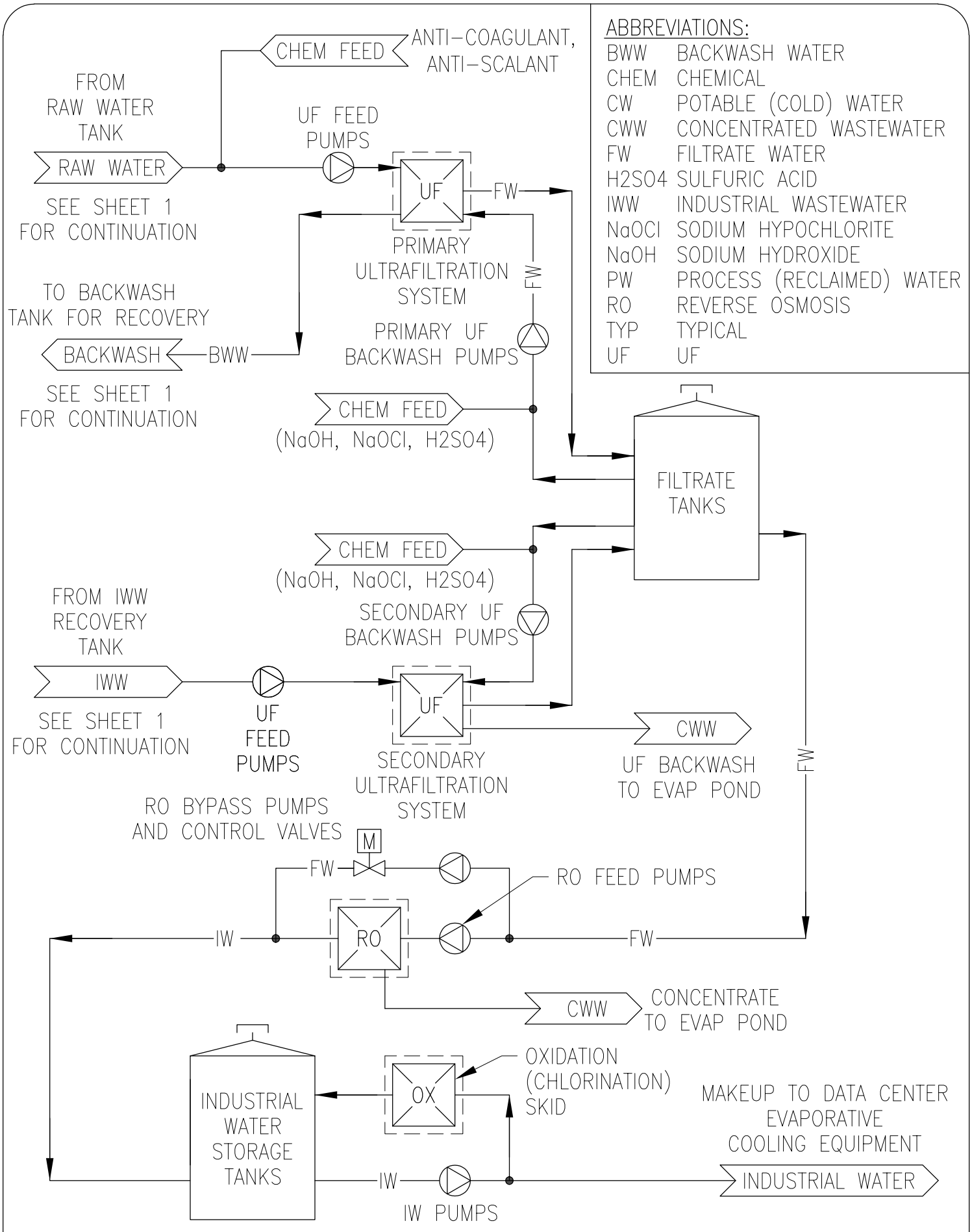
Kimley»Horn

7900 Rancharrah Parkway
Suite 100
Reno, Nevada 89511
775-787-7552



PROCESS FLOW DIAGRAM - SHEET 1

RAW WATER, INDUSTRIAL WASTEWATER RECOVERY, AND PRIMARY UF BACKWASH RECOVERY



PROCESS FLOW DIAGRAM - SHEET 2

UF, RO, AND IW SYSTEMS