



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

**Permittee Name:** NV ENERGY  
PO BOX 10100  
RENO, NV - 89520

**Permit Number:** NS0097023

**Location:** TRACY POWER STATION, STOREY  
1799 WALTHAM WAY, MCCARRAN, NV - 89434  
LATITUDE: 39.559816, LONGITUDE: -119.519304  
TOWNSHIP: T20N, RANGE: R22E, SECTION: S33

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Outfall City	Outfall State	Outfall Zip	Outfall County	Latitude	Longitude	Receiving Water
001	DUST SUPPRESSION (ON AND OFF SITE)	External Outfall		MCCARRAN	NV	89434	STOREY	39.5575	-119.526111	GROUNDWATER
P01	EVAPORATION POND #1 (PINION PINE EVAPORATION POND)	External Outfall		MCCARRAN	NV	89434	STOREY	39.5575	-119.526111	GROUNDWATER
P02	EVAPORATION POND #2	External Outfall		MCCARRAN	NV	89434	STOREY	39.50	-119.52	GROUNDWATER
P03	EVAPORATION POND #3	External Outfall		MCCARRAN	NV	89434	STOREY	39.50	-119.50	GROUNDWATER
PCW	COOLING WATER POND (TRACY POND)	External Outfall		MCCARRAN	NV	89434	STOREY	39.5650	-119.5260	GROUNDWATER
SUM	SUM OF DISCHARGES TO PONDS	External Outfall		MCCARRAN	NV	89434	STOREY	39.50	-119.50	GROUNDWATER
W05	MONITORING WELL MW-5	Monitoring Well	65094	MCCARRAN	NV	89434	STOREY	39.565254	-119.525372	GROUNDWATER
W07	MONITORING WELL MW-7	Monitoring Well	63783	MCCARRAN	NV	89434	STOREY	39.566337	-119.528039	GROUNDWATER
W08	MONITORING WELL MW-8	Monitoring Well	63786	MCCARRAN	NV	89434	STOREY	39.564852	-119.530907	GROUNDWATER
W12	MONITORING WELL MW-12	Monitoring Well	64104	MCCARRAN	NV	89434	STOREY	39.561920	-119.531715	GROUNDWATER

**General:**

The Permittee, NV Energy, has applied for renewal of existing permit NS0097023. NV Energy (NVE) operates the Tracy Power Generation Station (TPGS). The total TPGS generating capacity is approximately 950 megawatts (MW), with all units operating on natural gas, and some units having the ability to also operate on diesel. Electric generators are driven by combustion and steam turbine units. The power station's current power production consists of the Tracy Unit III, built in 1974, produces 108 MWs, and the Clark Mountain 3 and 4 combustion turbines which were added in 1994 and individually produce 72 MW of power each. The Piñon Pine (unit #4) combined cycle power plant, dedicated in 1996, generates 102 MWs combining steam and gas turbines, and the Tracy combined cycle units 8, 9, and 10 generate approximately 550 MWs. There are two operational cooling towers. The Piñon Waste Concentration Tower has been removed and replaced by the new reverse osmosis (RO) system which provides purified water which can be reused in several of the facility's cooling towers or other water using systems. This recycling of water reduces the quantity of waste water, thus reducing the quantity sent to the evaporation pond. The cooling tower for Tracy Units 1 and 2 was retired with the associated combustion units at the end of 2014.

The Permittee has applied for renewal of permit NS0097023 to continue discharges of the facility waste streams to either the evaporation ponds for disposal via evaporation, or the non-contact cooling waters and waters of similar chemistry that are discharged into the cooling water pond for future reuse/recycling; river water and/or groundwater from wells are used to supplement the cooling pond as need dictates. Cooling water is authorized for use in dust suppression on site. Monitoring wells have been installed for water quality monitoring and the evaporation ponds each have a leak detection system installed.

**Discharge Characteristics:**

Tracy Cooling Water Pond - PCW: is a large pond supplied by water pumped from the Truckee River, stored therein, and from which water is drawn, used and or recycled for cooling systems, or is used on site for dust suppression and fire protection. Waters recycled to the cooling water pond include non-contact cooling water, water from Tracy 3 cooling tower blowdown. River water is pumped and or drawn into the pond to make up for evaporative losses on an as needed basis. Cooling water is used on site for dust suppression as Outfall 001.

Piñon Pine Evaporation Pond - P01: is lined with PolyNet 3000 which channels any liner leaks to a leak detection sump. This sump is sampled quarterly. Wastewaters discharged to this pond include: concentrated brine solution from the RO System, high total dissolved solids (TDS) wastewaters from the Boiler Blowdown Tanks from Tracy 3, Sample Table Drain waste and online analyzer waste at Tracy 3, cooling tower blowdown, facility drains (floor and sink), chemical cleaning wash waters and other plant waste waters.

Tracy Evaporation Pond - P02: double-lined high-density polyethelene (HDPE) with a leak detection and collection system. The pond is 6.2 acres in size with approximately 62 acre feet in volume. This pond receives the same waste streams as Piñon Pine.

Evaporation Pond #3 - P03: double-lined HDPE with a leak detection and collection system. This is a new outfall for this permit cycle, and will receive the same waste streams as outfalls P01 and P02.

**Receiving Water:**

The receiving water is groundwater of the state.

**Summary of Changes From Previous Permit:**

Outfall P03, Evaporation Pond #3, has been added to this permit.

Due to a new naming convention at NDEP, Bureau of Water Pollution Control, the permit ID has been changed from NEV97023 to NS0097023. This change does not reflect a change in the type of permit being issued. NEV and NS permits are for discharges to groundwater of the state of Nevada. These are not to be confused with NV permits, which are reserved for NPDES permitting.

**Groundwater Monitoring Wells Table for Sample Location W05 (Monitoring Well Mw-5) To Be Reported Quarterly**

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Nitrogen, total	Quarterly Maximum		<= 10 Milligrams per Liter (mg/L)	Groundwater	W05	Quarterly	DISCRT
Solids, total dissolved	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W05	Quarterly	DISCRT
Water level relative to mean sea level <sup>[2]</sup>	Quarterly Maximum	M&R Feet (ft)		Groundwater	W05	Quarterly	DISCRT
Depth to water level ft below landsurface <sup>[1]</sup>	Quarterly Maximum	M&R Feet (ft)		Groundwater	W05	Quarterly	DISCRT
pH, maximum	Quarterly Maximum		M&R Standard Units (SU)	Groundwater	W05	Quarterly	DISCRT
pH, minimum	Quarterly Minimum		M&R Standard Units (SU)	Groundwater	W05	Quarterly	DISCRT

Notes (Groundwater Monitoring Wells Table):

1. Depth to Groundwater, ft.
2. Groundwater Elevation, ft.

### Groundwater Monitoring Wells Table for Sample Location W05 (Monitoring Well Mw-5) To Be Reported Annually

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Zinc, total (as Zn)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W05	Annual	DISCRT
Thallium, total (as Tl)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W05	Annual	DISCRT
Silver, total (as Ag)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W05	Annual	DISCRT
Selenium, total (as Se)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W05	Annual	DISCRT
Nickel, total (as Ni)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W05	Annual	DISCRT
Mercury, total (as Hg)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W05	Annual	DISCRT
Magnesium, total (as Mg)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W05	Annual	DISCRT
Lead, total (as Pb)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W05	Annual	DISCRT
Copper, total (as Cu)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W05	Annual	DISCRT
Chromium, total (as Cr)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W05	Annual	DISCRT
Cadmium, total (as Cd)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W05	Annual	DISCRT
			M&R				

**Groundwater Monitoring Wells Table for Sample Location W05 (Monitoring Well Mw-5) To Be Reported Annually**

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Beryllium, total (as Be)	Daily Maximum		Milligrams per Liter (mg/L)	Groundwater	W05	Annual	DISCRT
Arsenic, total (as As)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W05	Annual	DISCRT
Antimony, total (as Sb)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W05	Annual	DISCRT

**Groundwater Monitoring Wells Table for Sample Location W07 (Monitoring Well Mw-7) To Be Reported Quarterly**

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Nitrogen, total	Quarterly Maximum		<= 10 Milligrams per Liter (mg/L)	Groundwater	W07	Quarterly	DISCRT
Solids, total dissolved	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W07	Quarterly	DISCRT
Water level relative to mean sea level <sup>[2]</sup>	Quarterly Maximum	M&R Feet (ft)		Groundwater	W07	Quarterly	DISCRT
Depth to water level ft below landsurface <sup>[1]</sup>	Quarterly Maximum	M&R Feet (ft)		Groundwater	W07	Quarterly	DISCRT
pH, maximum	Quarterly Maximum		M&R Standard Units (SU)	Groundwater	W07	Quarterly	DISCRT
pH, minimum	Quarterly Minimum		M&R Standard Units (SU)	Groundwater	W07	Quarterly	DISCRT

Notes (Groundwater Monitoring Wells Table):

1. Depth to Groundwater, ft.
2. Groundwater Elevation, ft.

**Groundwater Monitoring Wells Table for Sample Location W07 (Monitoring Well Mw-7) To Be Reported Annually<sup>[1]</sup>**

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Antimony, total (as Sb)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W07	Annual	DISCRT
Zinc, total (as Zn)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W07	Annual	DISCRT
Thallium, total (as Tl)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W07	Annual	DISCRT
Silver, total (as Ag)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W07	Annual	DISCRT
Selenium, total (as Se)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W07	Annual	DISCRT
Nickel, total (as Ni)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W07	Annual	DISCRT
Mercury, total (as Hg)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W07	Annual	DISCRT
Magnesium, total (as Mg)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W07	Annual	DISCRT
Lead, total (as Pb)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W07	Annual	DISCRT
Copper, total (as Cu)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W07	Annual	DISCRT
Chromium, total (as Cr)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W07	Annual	DISCRT
			M&R				

**Groundwater Monitoring Wells Table for Sample Location W07 (Monitoring Well Mw-7) To Be Reported Annually<sup>[1]</sup>**

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Cadmium, total (as Cd)	Daily Maximum		Milligrams per Liter (mg/L)	Groundwater	W07	Annual	DISCRT
Beryllium, total (as Be)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W07	Annual	DISCRT
Arsenic, total (as As)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W07	Annual	DISCRT

Notes (Groundwater Monitoring Wells Table):

1. 4th Quarter.

**Groundwater Monitoring Wells Table for Sample Location W08 (Monitoring Well Mw-8) To Be Reported Quarterly**

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Nitrogen, total	Quarterly Maximum		<= 10 Milligrams per Liter (mg/L)	Groundwater	W08	Quarterly	DISCRT
Solids, total dissolved	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W08	Quarterly	DISCRT
Water level relative to mean sea level <sup>[2]</sup>	Quarterly Maximum	M&R Feet (ft)		Groundwater	W08	Quarterly	DISCRT
Depth to water level ft below landsurface <sup>[1]</sup>	Quarterly Maximum	M&R Feet (ft)		Groundwater	W08	Quarterly	DISCRT
pH, maximum	Quarterly Maximum		M&R Standard Units (SU)	Groundwater	W08	Quarterly	DISCRT
pH, minimum	Quarterly Minimum		M&R Standard Units (SU)	Groundwater	W08	Quarterly	DISCRT

Notes (Groundwater Monitoring Wells Table):

1. Depth to Groundwater, ft.
2. Groundwater Elevation, ft.

**Groundwater Monitoring Wells Table for Sample Location W08 (Monitoring Well Mw-8) To Be Reported Annually<sup>[1]</sup>**

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Mercury, total (as Hg)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W08	Annual	DISCRT
Magnesium, total (as Mg)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W08	Annual	DISCRT
Lead, total (as Pb)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W08	Annual	DISCRT
Copper, total (as Cu)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W08	Annual	DISCRT
Chromium, total (as Cr)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W08	Annual	DISCRT
Cadmium, total (as Cd)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W08	Annual	DISCRT
Beryllium, total (as Be)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W08	Annual	DISCRT
Arsenic, total (as As)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W08	Annual	DISCRT
Antimony, total (as Sb)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W08	Annual	DISCRT
Zinc, total (as Zn)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W08	Annual	DISCRT
Thallium, total (as Tl)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W08	Annual	DISCRT
			M&R				

**Groundwater Monitoring Wells Table for Sample Location W08 (Monitoring Well Mw-8) To Be Reported Annually<sup>[1]</sup>**

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Silver, total (as Ag)	Daily Maximum		Milligrams per Liter (mg/L)	Groundwater	W08	Annual	DISCRT
Selenium, total (as Se)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W08	Annual	DISCRT
Nickel, total (as Ni)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W08	Annual	DISCRT

Notes (Groundwater Monitoring Wells Table):

1. 4th Quarter.

**Groundwater Monitoring Wells Table for Sample Location W12 (Monitoring Well Mw-12) To Be Reported Quarterly**

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Nitrogen, total	Quarterly Maximum		<= 10 Milligrams per Liter (mg/L)	Groundwater	W12	Quarterly	DISCRT
Solids, total dissolved	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W12	Quarterly	DISCRT
Water level relative to mean sea level <sup>[2]</sup>	Quarterly Maximum	M&R Feet (ft)		Groundwater	W12	Quarterly	DISCRT
Depth to water level ft below landsurface <sup>[1]</sup>	Quarterly Maximum	M&R Feet (ft)		Groundwater	W12	Quarterly	DISCRT
pH, maximum	Quarterly Maximum		M&R Standard Units (SU)	Groundwater	W12	Quarterly	DISCRT
pH, minimum	Quarterly Minimum		M&R Standard Units (SU)	Groundwater	W12	Quarterly	DISCRT

Notes (Groundwater Monitoring Wells Table):

1. Depth to Groundwater, ft.
2. Groundwater Elevation, ft.

**Groundwater Monitoring Wells Table for Sample Location W12 (Monitoring Well Mw-12) To Be Reported Annually<sup>[1]</sup>**

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Zinc, total (as Zn)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W12	Annual	DISCRT
Thallium, total (as Tl)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W12	Annual	DISCRT
Silver, total (as Ag)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W12	Annual	DISCRT
Selenium, total (as Se)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W12	Annual	DISCRT
Nickel, total (as Ni)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W12	Annual	DISCRT
Mercury, total (as Hg)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W12	Annual	DISCRT
Magnesium, total (as Mg)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W12	Annual	DISCRT
Lead, total (as Pb)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W12	Annual	DISCRT
Copper, total (as Cu)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W12	Annual	DISCRT
Chromium, total (as Cr)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W12	Annual	DISCRT
Cadmium, total (as Cd)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W12	Annual	DISCRT
			M&R				

**Groundwater Monitoring Wells Table for Sample Location W12 (Monitoring Well Mw-12) To Be Reported Annually<sup>[1]</sup>**

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Beryllium, total (as Be)	Daily Maximum		Milligrams per Liter (mg/L)	Groundwater	W12	Annual	DISCRT
Arsenic, total (as As)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W12	Annual	DISCRT
Antimony, total (as Sb)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	W12	Annual	DISCRT

Notes (Groundwater Monitoring Wells Table):

1. 4th Quarter.

**Zero Discharge Limitations Table for Sample Location P01 (External Outfall) 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	M&R Million Gallons per Day (Mgal/d)		Effluent Gross	P01	Continuous	METER
Flow rate	Daily Maximum	M&R Million Gallons per Day (Mgal/d)		Effluent Gross	P01	Continuous	METER

### Zero Discharge Limitations Table for Sample Location P01 (External Outfall) To Be Reported Quarterly

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Solids, total dissolved	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	P01	Quarterly	DISCRT
Flow rate <sup>[1]</sup>	Quarterly Average	<= 2500 Gallons per Day (gal/d) <sup>[2]</sup>		See Footnote	P01	Quarterly	CALCTD
Hydrocarbons, total petroleum	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	P01	Quarterly	DISCRT
pH, maximum	Quarterly Maximum		M&R Standard Units (SU)	Effluent Gross	P01	Quarterly	DISCRT
pH, minimum	Quarterly Minimum		M&R Standard Units (SU)	Effluent Gross	P01	Quarterly	DISCRT
Nitrogen, total	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	P01	Quarterly	DISCRT
Freeboard	Quarterly Minimum		>= 2.0 Feet (ft)	Receiving Water	P01	Quarterly	DISCRT

#### Notes (Zero Discharge Limitations Table):

1. Report flow pumped from leak detection sump for Pond 1.
2. Based on 500 gallons per acre per day for a 5.0-acre pond.

### Zero Discharge Limitations Table for Sample Location P01 (External Outfall) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Zinc, total (as Zn)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	P01	Annual	DISCRT
Thallium, total (as Tl)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	P01	Annual	DISCRT
Silver, total (as Ag)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	P01	Annual	DISCRT
Selenium, total (as Se)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	P01	Annual	DISCRT
Nickel, total (as Ni)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	P01	Annual	DISCRT
Mercury, total (as Hg)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	P01	Annual	DISCRT
Lead, total (as Pb)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	P01	Annual	DISCRT
Copper, total (as Cu)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	P01	Annual	DISCRT
Chromium, total (as Cr)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	P01	Annual	DISCRT
Cadmium, total (as Cd)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	P01	Annual	DISCRT
Beryllium, total (as Be)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	P01	Annual	DISCRT
			M&R				

**Zero Discharge Limitations Table for Sample Location P01 (External Outfall) To Be Reported Annually**

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Arsenic, total (as As)	Daily Maximum		Milligrams per Liter (mg/L)	Effluent Gross	P01	Annual	DISCRT
Antimony, total (as Sb)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	P01	Annual	DISCRT

**Zero Discharge Limitations Table for Sample Location P02 (External Outfall) To Be Reported Monthly**

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Flow rate	30 Day Average	M&R Million Gallons per Day (Mgal/d)		Effluent Gross	P02	Continuous	METER
Flow rate	Daily Maximum	M&R Million Gallons per Day (Mgal/d)		Effluent Gross	P02	Continuous	METER

### Zero Discharge Limitations Table for Sample Location P02 (External Outfall) To Be Reported Quarterly

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Solids, total dissolved	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	P02	Quarterly	DISCRT
pH, maximum	Quarterly Maximum		M&R Standard Units (SU)	Effluent Gross	P02	Quarterly	DISCRT
pH, minimum	Quarterly Minimum		M&R Standard Units (SU)	Effluent Gross	P02	Quarterly	DISCRT
Hydrocarbons, total petroleum	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	P02	Quarterly	DISCRT
Freeboard	Quarterly Minimum		>= 2.0 Feet (ft)	Receiving Water	P02	Quarterly	DISCRT
Nitrogen, total	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	P02	Quarterly	DISCRT
Flow rate <sup>[1]</sup>	Quarterly Average	<= 3100 Gallons per Day (gal/d) <sup>[2]</sup>		See Footnote	P02	Quarterly	CALCTD

#### Notes (Zero Discharge Limitations Table):

1. Report flow pumped from leak detection sump for Pond 2.
2. Based on 500 gallons per acre per day for a 6.2-acre pond.

### Zero Discharge Limitations Table for Sample Location P02 (External Outfall) To Be Reported Annually<sup>[1]</sup>

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Zinc, total (as Zn)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	P02	Annual	DISCRT
Thallium, total (as Tl)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	P02	Annual	DISCRT
Silver, total (as Ag)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	P02	Annual	DISCRT
Selenium, total (as Se)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	P02	Annual	DISCRT
Nickel, total (as Ni)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	P02	Annual	DISCRT
Mercury, total (as Hg)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	P02	Annual	DISCRT
Lead, total (as Pb)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	P02	Annual	DISCRT
Copper, total (as Cu)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	P02	Annual	DISCRT
Chromium, total (as Cr)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	P02	Annual	DISCRT
Cadmium, total (as Cd)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	P02	Annual	DISCRT
Beryllium, total (as Be)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	P02	Annual	DISCRT
			M&R				

### Zero Discharge Limitations Table for Sample Location P02 (External Outfall) To Be Reported Annually<sup>[1]</sup>

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Arsenic, total (as As)	Daily Maximum		Milligrams per Liter (mg/L)	Effluent Gross	P02	Annual	DISCRT
Antimony, total (as Sb)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	P02	Annual	DISCRT

Notes (Zero Discharge Limitations Table):

1. 4th Quarter.

**Zero Discharge Limitations Table for Sample Location Pcw (External Outfall) 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	M&R Million Gallons per Day (Mgal/d)		Effluent Gross	PCW	Continuous	CALCTD
Flow rate	Daily Maximum	M&R Million Gallons per Day (Mgal/d)		Effluent Gross	PCW	Continuous	CALCTD

### Zero Discharge Limitations Table for Sample Location Pcw (External Outfall) To Be Reported Quarterly

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Solids, total suspended	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	PCW	Quarterly	DISCRT
Solids, total dissolved	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	PCW	Quarterly	DISCRT
pH, maximum	Quarterly Maximum		M&R Standard Units (SU)	Effluent Gross	PCW	Quarterly	DISCRT
pH, minimum	Quarterly Minimum		M&R Standard Units (SU)	Effluent Gross	PCW	Quarterly	DISCRT
Hydrocarbons, total petroleum	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	PCW	Quarterly	DISCRT
Freeboard	Quarterly Minimum		>= 2.0 Feet (ft)	Receiving Water	PCW	Quarterly	DISCRT

### Zero Discharge Limitations Table for Sample Location Pcw (External Outfall) To Be Reported Annually

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

**Zero Discharge Limitations Table for Sample Location Pcw (External Outfall) To Be Reported Annually**

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Thallium, total (as Tl)	Annual Maximum		Milligrams per Liter (mg/L)	Effluent Gross	PCW	Annual	DISCRT
Zinc, total (as Zn)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	PCW	Annual	DISCRT

**NS OTHER - Discharge Limitations Table for Sample Location 001 (External Outfall) 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	M&R Gallons per Day (gal/d)		Prior to Reuse	001	Continuous	METER
Flow rate	Daily Maximum	M&R Gallons per Day (gal/d)		Prior to Reuse	001	Continuous	METER

**Ponds / Rapid Infiltration Basins for Sample Location P03 (External 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	M&R Million Gallons per Day (Mgal/d)		Effluent Gross	P03	Continuous	METER
Flow rate	30 Day Average	M&R Million Gallons per Day (Mgal/d)		Effluent Gross	P03	Continuous	METER

### Ponds / Rapid Infiltration Basins for Sample Location P03 (External Outfall) To Be Reported Quarterly

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Solids, total dissolved	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	P03	Quarterly	DISCRT
Flow rate <sup>[1]</sup>	Quarterly Average	<= 2800 Gallons per Day (gal/d) <sup>[2]</sup>		See Footnote	P03	Quarterly	CALCTD
Nitrogen, total	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	P03	Quarterly	DISCRT
pH, minimum	Quarterly Minimum		M&R Standard Units (SU)	Effluent Gross	P03	Quarterly	DISCRT
pH, maximum	Quarterly Maximum		M&R Standard Units (SU)	Effluent Gross	P03	Quarterly	DISCRT
Hydrocarbons, total petroleum	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	P03	Quarterly	DISCRT
Freeboard	Quarterly Minimum		>= 2.0 Feet (ft)	Receiving Water	P03	Quarterly	DISCRT

#### Notes (Ponds / Rapid Infiltration Basins):

1. Report flow pumped from leak detection sump for Pond 3.
2. Based on 500 gallons per acre per day for a 5.6-acre pond.

**Ponds / Rapid Infiltration Basins for Sample Location P03 (External Outfall) To Be Reported Annually**

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Copper, total (as Cu)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	P03	Annual	DISCRT
Chromium, total (as Cr)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	P03	Annual	DISCRT
Cadmium, total (as Cd)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	P03	Annual	DISCRT
Zinc, total (as Zn)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	P03	Annual	DISCRT
Beryllium, total (as Be)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	P03	Annual	DISCRT
Arsenic, total (as As)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	P03	Annual	DISCRT
Antimony, total (as Sb)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	P03	Annual	DISCRT
Thallium, total (as Tl)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	P03	Annual	DISCRT
Silver, total (as Ag)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	P03	Annual	DISCRT
Selenium, total (as Se)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	P03	Annual	DISCRT
Nickel, total (as Ni)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	P03	Annual	DISCRT
			M&R				

**Ponds / Rapid Infiltration Basins for Sample Location P03 (External Outfall) To Be Reported Annually**

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Mercury, total (as Hg)	Daily Maximum		Milligrams per Liter (mg/L)	Effluent Gross	P03	Annual	DISCRT
Lead, total (as Pb)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	P03	Annual	DISCRT

**Ponds / Rapid Infiltration Basins for Sample Location Sum (External Outfall) To Be Reported Monthly**

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Flow rate	30 Day Average	M&R Million Gallons per Day (Mgal/d)		Effluent Gross	SUM	Continuous	CALCTD
Flow rate	Daily Maximum	< 5.0 Million Gallons per Day (Mgal/d)		Effluent Gross	SUM	Continuous	CALCTD

**Rationale for Permit Requirements:**

Groundwater monitoring is required to ensure that groundwater quality is not adversely affected; pond monitoring is required in order to characterize the water contained in the evaporation pond and the cooling water pond. The Permittee is in substantial compliance with the current permit.

**Special Conditions:**

SA – Special Approvals / Conditions Table

Item #	Description
1	Condition B.PB.9.6. applies only to the processes applicable to the permitted discharges (e.g. ponds, discharge points, etc.)

**Reasonable Potential Analysis and Antidegradation Review:**

Discharges in accordance with the proposed permit are not anticipated to degrade groundwater of the state.

**Flow:**

The daily maximum flow is limited to 5 million gallons per day (MGD).

**Corrective Action Sites:**

There are no Bureau of Corrective Actions sites within one mile of this facility.

**Wellhead Protection Program:**

Discharge points at the Tracy Power Plant are within five 3,000-foot Drinking Water Protection Areas.

**Schedule of Compliance:**

SOC – Schedule of Compliance Table

Item #	Description	Due Date
1	The Permittee shall submit for Division review 2 copies of a new Operations and Maintenance (O&M) Manual. The O&M Manual shall be prepared by Nevada-registered Professional Engineer or other qualified person.	9/1/2016
2	The Permittee shall submit plans for ceasing discharge to the current configuration of the Cooling Water Pond (Outfall PWC) to the Division for review.	12/31/2017
3	The Permittee shall cease discharging to the Cooling Water Pond (Outfall PWC) as currently constructed to the Division.	12/31/2020
4	All DMRs shall be submitted electronically through the Nevada NetDMR website. <a href="https://netdmr.ndep.nv.gov/netdmr/public/home.htm">https://netdmr.ndep.nv.gov/netdmr/public/home.htm</a>	10/28/2017

**Deliverable Schedule:**

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

Item #	Description	Interval	First Scheduled Due Date
1	Quarterly DMRs	Quarterly	10/28/2016
2	Annual DMRs	Annually	1/28/2017
3	Annual Report	Annually	1/28/2017

**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 sent to the **Reno Gazette Journal** for publication. The notice is being mailed to interested persons on our mailing list. Anyone wishing to comment on the proposed permit can do so in writing until 5:00 P.M. **5/27/2016**, 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 to 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: **Robert E. Wimer, Jr.**

Date: **4/21/2016**

Title: **P.E.**