



FACTSHEET
(pursuant to NAC 445A.236)

Permittee Name: WEED HEIGHTS DEVELOPMENT LLC

2 AUSTIN DRIVE
YERINGTON, NV 89447

Permit Number: NS0089026

Permit Type: GROUNDWATER DISCHARGE

Designation: GROUNDWATER

New/Existing: EXISTING

Location: WEED HEIGHTS DEVELOPMENT, LYON
2 AUSTIN DRIVE, YERINGTON, NV 89447
LATITUDE: 38.9998, LONGITUDE: -119.216550
TOWNSHIP: 13N, RANGE: 25E, SECTION: 17

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Latitude	Longitude	Receiving Water
FC1	PHASE 2 FACULTATIVE CELL 1	Influent Structure		38.998040	-119.215656	N/A
FC2	PHASE 2 FACULTATIVE CELL 2	Influent Structure		38.0179	-119.2099	N/A
FL1	PHASE 1 FLUME	Influent Structure		39.997527	-119.255340	N/A
FL2	PHASE 2 FLUME	Influent Structure		38.0179	-119.2099	N/A
MW1	PHASE 2 MONITORING WELL 1 UPGRADIENT	Monitoring Well		39.0025	-119.2188	GROUNDWATER
MW2	PHASE 2 MONITORING WELL 2 DOWNGRADIENT	Monitoring Well		39.0026	-119.2189	GROUNDWATER
MW3	PHASE 2 MONITORING WELL 3 DOWNGRADIENT	Monitoring Well		39.0027	-119.2190	GROUNDWATER
MW4	PHASE 1 MONITORING WELL 4	Monitoring Well		39.020143	-119.209240	GROUNDWATER
MW5	PHASE 1 MONITORING WELL 5	Monitoring Well		39.020076	-119.208006	GROUNDWATER
PB1	PHASE 1 N PERC BASIN	External Outfall		39.019524	-119.208669	GROUNDWATER
PB2	PHASE 1 S PERC BASIN	External Outfall		39.019040	-119.019040	GROUNDWATER
PD1	PHASE 1 LINED POND 1	Influent Structure		39.018970	-119.209550	N/A
PD2	PHASE 1 LINED POND 2	Influent Structure		39.019568	-119.209629	N/A
R01	PHASE 2 RIB 1	External Outfall		38.993550	-119.2163	GROUNDWATER
R02	PHASE 2 RIB 2	External Outfall		38.9997	-119.2166	GROUNDWATER
S01	PHASE 2 SEPTIC TANK 1 (25,000-GAL)	Influent Structure		38.997655	-119.215495	N/A
S02	PHASE 2 SEPTIC TANK 2 (25,000-GAL)	Influent Structure		38.997655	-119.215490	N/A
S03	PHASE 2 SEPTIC TANK 3 (25,000-GAL)	Influent Structure		38.997655	-119.215485	N/A
S04	PHASE 2 SEPTIC TANK 4 (25,000-GAL)	Influent Structure		38.997655	-119.215480	N/A
S05	PHASE 1 SEPTIC TANK 1 (38,000-GAL)	Influent Structure		39.000770	-119.204144	N/A
S06	PHASE 1 SEPTIC TANK 2 (38,000-GAL)	Influent Structure		39.000720	-119.2041	N/A
S07	PHASE 1 SEPTIC TANK 3 (38,000-GAL)	Influent Structure		39.000790	-119.2041	N/A

Permit History/Description of Proposed Action

This is a renewal permit for Weed Heights Development LLC (Weed Heights). The Permittee is proposing to continue discharging secondary treated domestic sewage through two (2) lined ponds to two (2) unlined evaporation/percolation ponds (#3 and #4). This project was constructed in 1989. The last renewal was issued on September 10, 2012, and expired on September 9, 2017; the permit has been administratively continued since.

Facility Overview

Weed Heights was originally founded in 1952 as a community for employees of the Anaconda open-pit copper mine. Mining operations at the site ceased in 1978. The community of Weed Heights currently includes residential housing, one RV-Park, and several small businesses. 250 residential units total are available for rental. 220 of the units are presently habitable, and 30 units are uninhabitable but planned for renovation as funds become available. The estimated population of the Weed Heights Development is 541 capita. The Wastewater Treatment Facility (WWTF) consists of a gravity collection system, three (3) 38,000-gallon septic tanks operated in parallel, one (1) solar powered ultrasonic flow meter, two (2) clay-lined facultative ponds (#1 and #2), and two (2) unlined evaporation/percolation ponds (#3 and #4). All ponds are just under one (1) acre in area and operate at a design depth of three (3) feet. Effluent flows through the ponds in series. Following primary settling in the three (3) septic tanks, effluent flows via gravity to the pond system for secondary (biological) treatment in ponds #1 and #2, followed by disposal in ponds #3 and #4. The evaporation/percolation ponds were built on top of materials previously used in the copper mining operations as tailings ponds. Due to the low permeability of the tailings pond material, evaporative processes provide the bulk of treated effluent removal.

Weed Heights is planning to construct a new WWTF (Phase 2) and discontinue use of the current system (Phase 1). The new/relocated WWTF will include septic tanks for primary wastewater settling (4 x 25,000 gal. tanks), facultative treatment cells for biological treatment (one (1) primary and one (1) secondary cell and one (1) solar powered recirculation unit in the primary cell), RIBs (two (2) disposal basins), and groundwater monitoring wells (one (1) upgradient and two (2) downgradient wells). The proposed relocation site for the WWTF at Operating Unit 6 (OU6) is sited approximately one half-mile NNW from the housing area and RV-Park.

Outfall Summary

Phase 1 refers to the existing system, phase 2 refers to the planned future system.

Outfalls FC1 and FC2 are associated with the phase 2 facultative treatment cells. The domestic sewage discharged to the treatment cells will undergo further treatment by microbial activity.

Outfalls R01 and R02 are associated with the phase 2 RIBs. The domestic sewage discharged to the RIBs will percolate to groundwater or evaporate to the atmosphere.

Outfalls S01 through S07 are associated with Weed Heights septic tanks. Outfalls S01 through S04 are associated with phase 2 septic tanks, outfalls S05 through S07 are associated with the phase 1 septic tanks.

Outfalls MW1 through MW5 are associated with monitoring wells. Outfalls MW1 through MW3 are associated with phase 2 monitoring wells (One (1) up gradient and two (2) down gradient.), outfalls MW4 and MW5 are associated with the phase 1 monitoring wells.

Outfalls PB1 and PB2 are associated with the phase 1 effluent infiltration basins. The domestic sewage discharged to the effluent infiltration basins will percolate to groundwater or evaporate to the atmosphere.

Outfalls PD1 and PD2 are associated with the lined phase 1 lined ponds. The domestic sewage in the lined ponds is discharged to the phase 1 effluent infiltration basins (PB1 and PB2). Water quality samples to be taken here.

Outfalls FL1 and FL2 are associated with flumes. Flow shall be sampled at the flumes. FL1 is associated with the phase 1 flume, FL2 is associated with the phase 2 flume. The domestic sewage will be discharged

via a flume to septic tanks.

Facility Upgrades since last issued permit
none

Operations & Maintenance (O&M) Manual status

The updated O&M Manual shall include a maintenance schedule for weed removal in treatment and disposal basins. The Technical, Compliance, and Enforcement (TCE) Branch of the Bureau of Water Pollution Control requires O&M Manuals be updated every two (2) permit cycles which equates to every ten (10) years, a new or updated O&M Manual is due at this time.

Effluent Characterization

This permit will authorize the discharge of domestic sewage to groundwater of the State via percolation from RIBs. The discharge of toxic, hazardous, or industrial waste materials to any permitted septic system is strictly prohibited.

Pollutants of Concern

The 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.

Receiving Water

Groundwater of the State of Nevada via percolation from RIBs. Area groundwater is non-potable. High total dissolved solids concentrations are attributable to leaching from the abandoned unlined tailings ponds used during copper processing operations. For the 2022-2023 DMR reporting period groundwater at Phase 1 RIBs was found to be 17-25 feet below ground level.

Compliance History

Items noted by NDEP during the NetDMR data review and the March 29, 2024 facility tour include:
Monthly average and daily maximum flows were not reported.

pH values not reported by a certified lab.

4th Q. summary plots were omitted in last two years.

4th Q. photos were omitted last year.

Two quarters of lab reports were omitted last year.

Both years omitted the septic tank measurements.

No daily certified Grade I WW operator.

Improper disposal of septage onto the mine site. All septage must be pumped and properly disposed off-site by a State-licensed septage waste hauler.

Proposed Effluent Limitations

The Permittee, Weed Heights, shall monitor the depth of sludge, scum, and total liquids in all septic tanks annually, as a minimum. Septic tanks shall be pumped when the combined scum and sludge depth is equal to or greater than 50% of total liquid depth. Septic tanks shall be pumped at least every three years for general maintenance purposes. The daily (monthly) average is limited to 0.063 MGD, this was the basis of design for the engineer's calculations.

Prohibited discharges include, but are not limited to:

Discharge of industrial waste.

Discharge of hazardous materials.

Discharges of untreated domestic/sanitary wastes that bypass the tank and discharge directly to the soil absorption area.

Excessive amounts of fats, oils, or organic loads.

Unapproved biohazardous wastes.

Reverse Osmosis (RO) waste streams or filter backwash.

Discharges from vehicle and equipment washing or vehicle maintenance, including mobile washes.

Other Discharges not authorized under this permit.

WWTP Discharge Limitations Table for Sample Location F11 (Phase 1 Flume) To Be Reported Monthly

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Flow rate	Daily Maximum	<= 0.063 Million Gallons per Day (Mgal/d)		Instream Monitoring	FL1	Continuous	METER
Flow rate	30 Day Average	M&R Million Gallons per Day (Mgal/d)		Instream Monitoring	FL1	Continuous	METER

WWTP Discharge Limitations Table for Sample Location FI2 (Phase 2 Flume) To Be Reported Monthly

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Flow rate	Daily Maximum	<= 0.063 Million Gallons per Day (Mgal/d)		Instream Monitoring	FL2	Continuous	METER
Flow rate	30 Day Average	M&R Million Gallons per Day (Mgal/d)		Instream Monitoring	FL2	Continuous	METER

WWTP Discharge Limitations Table for Sample Location S01 (Phase 2 Septic Tank 1) To Be Reported Quarterly

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Outfall observation, visual, y/n response	Positive Results	M&R Yes=0; No=1 (Y=0;N=1) ^[1]		Internal Monitoring Point	S01	Quarterly	VISUAL ^[2]

Notes (WWTP Discharge Limitations Table):

1. Report '0' as 'Yes' if the visual inspection of the septic tank was performed. Report '1' as 'No' if the visual inspection was not performed.
2. Visual inspections require: opening accessible covers, monitoring sludge and scum levels, and inspecting equipment. The sludge/solids depth must be measured annually, and when the sludge/solids depth is 50% of the liquid depth, the tank must be pumped. At a minimum the tank must be pumped once every three years. Report using attached Annual Large-Capacity Septic System Evaluation Report form.

WWTP Discharge Limitations Table for Sample Location S02 (Phase 2 Septic Tank 2) To Be Reported Quarterly

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Outfall observation, visual, y/n response	Positive Results	M&R Yes=0; No=1 (Y=0;N=1) ^[1]		Internal Monitoring Point	S02	Quarterly	VISUAL ^[2]

Notes (WWTP Discharge Limitations Table):

1. Report '0' as 'Yes' if the visual inspection of the septic tank was performed. Report '1' as 'No' if the visual inspection was not performed.
2. Visual inspections require: opening accessible covers, monitoring sludge and scum levels, and inspecting equipment. The sludge/solids depth must be measured annually, and when the sludge/solids depth is 50% of the liquid depth, the tank must be pumped. At a minimum the tank must be pumped once every three years. Report using attached Annual Large-Capacity Septic System Evaluation Report form.

WWTP Discharge Limitations Table for Sample Location S03 (Phase 2 Septic Tank 3) To Be Reported Quarterly

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Outfall observation, visual, y/n response	Positive Results	M&R Yes=0; No=1 (Y=0;N=1) ^[1]		Internal Monitoring Point	S03	Quarterly	VISUAL ^[2]

Notes (WWTP Discharge Limitations Table):

1. Report '0' as 'Yes' if the visual inspection of the septic tank was performed. Report '1' as 'No' if the visual inspection was not performed.
2. Visual inspections require: opening accessible covers, monitoring sludge and scum levels, and inspecting equipment. The sludge/solids depth must be measured annually, and when the sludge/solids depth is 50% of the liquid depth, the tank must be pumped. At a minimum the tank must be pumped once every three years. Report using attached Annual Large-Capacity Septic System Evaluation Report form.

WWTP Discharge Limitations Table for Sample Location S04 (Phase 2 Septic Tank 4) To Be Reported Quarterly

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Outfall observation, visual, y/n response	Positive Results	M&R Yes=0; No=1 (Y=0;N=1) ^[1]		Internal Monitoring Point	S04	Quarterly	VISUAL ^[2]

Notes (WWTP Discharge Limitations Table):

1. Report '0' as 'Yes' if the visual inspection of the septic tank was performed. Report '1' as 'No' if the visual inspection was not performed.
2. Visual inspections require: opening accessible covers, monitoring sludge and scum levels, and inspecting equipment. The sludge/solids depth must be measured annually, and when the sludge/solids depth is 50% of the liquid depth, the tank must be pumped. At a minimum the tank must be pumped once every three years. Report using attached Annual Large-Capacity Septic System Evaluation Report form.

WWTP Discharge Limitations Table for Sample Location S05 (Phase 1 Septic Tank 1) To Be Reported Quarterly

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Outfall observation, visual, y/n response	Positive Results	M&R Yes=0; No=1 (Y=0;N=1) ^[1]		Internal Monitoring Point	S05	Quarterly	VISUAL ^[2]

Notes (WWTP Discharge Limitations Table):

1. Report '0' as 'Yes' if the visual inspection of the septic tank was performed. Report '1' as 'No' if the visual inspection was not performed.
2. Visual inspections require: opening accessible covers, monitoring sludge and scum levels, and inspecting equipment. The sludge/solids depth must be measured annually, and when the sludge/solids depth is 50% of the liquid depth, the tank must be pumped. At a minimum the tank must be pumped once every three years. Report using attached Annual Large-Capacity Septic System Evaluation Report form.

WWTP Discharge Limitations Table for Sample Location S06 (Phase 1 Septic Tank 2) To Be Reported Quarterly

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Outfall observation, visual, y/n response	Positive Results	M&R Yes=0; No=1 (Y=0;N=1) ^[1]		Internal Monitoring Point	S06	Quarterly	VISUAL ^[2]

Notes (WWTP Discharge Limitations Table):

1. Report '0' as 'Yes' if the visual inspection of the septic tank was performed. Report '1' as 'No' if the visual inspection was not performed.
2. Visual inspections require: opening accessible covers, monitoring sludge and scum levels, and inspecting equipment. The sludge/solids depth must be measured annually, and when the sludge/solids depth is 50% of the liquid depth, the tank must be pumped. At a minimum the tank must be pumped once every three years. Report using attached Annual Large-Capacity Septic System Evaluation Report form.

WWTP Discharge Limitations Table for Sample Location S07 (Phase 1 Septic Tank 3) To Be Reported Quarterly

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Outfall observation, visual, y/n response	Positive Results	M&R Yes=0; No=1 (Y=0;N=1) ^[1]		Internal Monitoring Point	S07	Quarterly	VISUAL ^[2]

Notes (WWTP Discharge Limitations Table):

1. Report '0' as 'Yes' if the visual inspection of the septic tank was performed. Report '1' as 'No' if the visual inspection was not performed.
2. Visual inspections require: opening accessible covers, monitoring sludge and scum levels, and inspecting equipment. The sludge/solids depth must be measured annually, and when the sludge/solids depth is 50% of the liquid depth, the tank must be pumped. At a minimum the tank must be pumped once every three years. Report using attached Annual Large-Capacity Septic System Evaluation Report form.

Groundwater Monitoring Wells Table for Sample Location Mw1 (Phase 2 Monitoring Well 1 Upgradient) To Be Reported Quarterly

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Depth to water level ft below landsurface ^[1]	Daily Minimum	M&R Feet (ft)		Groundwater	MW1	Quarterly	INSITU
Water level relative to mean sea level ^[2]	Daily Maximum	M&R Feet (ft)		Groundwater	MW1	Quarterly	CALCTD
pH	Value		M&R Standard Units (SU)	Groundwater	MW1	Quarterly	DISCRT
Chloride (as Cl)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW1	Quarterly	DISCRT
Solids, total dissolved	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW1	Quarterly	DISCRT
Nitrogen, total	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW1	Quarterly	DISCRT

Notes (Groundwater Monitoring Wells Table):

1. Depth to groundwater.
2. Groundwater elevation above mean sea level (AMSL).

Groundwater Monitoring Wells Table for Sample Location Mw1 (Phase 2 Monitoring Well 1 Upgradient) To Be Reported Annually

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Alkalinity, bicarbonate (as CaCO ₃)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW1	Annual	DISCRT
Alkalinity, total (as CaCO ₃)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW1	Annual	DISCRT
Aluminum, total (as Al)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW1	Annual	DISCRT
Antimony, total (as Sb)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW1	Annual	DISCRT
Arsenic, total (as As)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW1	Annual	DISCRT
Barium, total (as Ba)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW1	Annual	DISCRT
Beryllium, total (as Be)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW1	Annual	DISCRT
Cadmium, total (as Cd)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW1	Annual	DISCRT
Calcium, total (as Ca)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW1	Annual	DISCRT
Chloride (as Cl)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW1	Annual	DISCRT
Chromium, total (as Cr)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW1	Annual	DISCRT
			M&R				

Groundwater Monitoring Wells Table for Sample Location Mw1 (Phase 2 Monitoring Well 1 Upgradient) 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		Milligrams per Liter (mg/L)	Groundwater	MW1	Annual	DISCRT
Fluoride, total (as F)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW1	Annual	DISCRT
Iron, total (as Fe)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW1	Annual	DISCRT
Lead, total (as Pb)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW1	Annual	DISCRT
Magnesium, total (as Mg)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW1	Annual	DISCRT
Manganese, total (as Mn)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW1	Annual	DISCRT
Mercury, total (as Hg)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW1	Annual	DISCRT
Nitrite plus nitrate total 1 det. (as N)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW1	Annual	DISCRT
Nitrogen, total	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW1	Annual	DISCRT
pH, maximum	Daily Maximum		M&R Standard Units (SU)	Groundwater	MW1	Annual	DISCRT
pH, minimum	Daily Minimum		M&R Standard Units (SU)	Groundwater	MW1	Annual	DISCRT
Potassium, total (as K)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW1	Annual	DISCRT

Groundwater Monitoring Wells Table for Sample Location Mw1 (Phase 2 Monitoring Well 1 Upgradient) To Be Reported Annually

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Selenium, total (as Se)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW1	Annual	DISCRT
Silver, total (as Ag)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW1	Annual	DISCRT
Sodium, total (as Na)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW1	Annual	DISCRT
Sulfate, total (as SO4)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW1	Annual	DISCRT
Thallium, total (as Tl)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW1	Annual	DISCRT
Solids, total dissolved	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW1	Annual	DISCRT
Uranium, natural, total	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW1	Annual	DISCRT
Cyanide, weak acid, dissociable	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW1	Annual	DISCRT
Zinc, total (as Zn)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW1	Annual	DISCRT

Groundwater Monitoring Wells Table for Sample Location Mw2 (Phase 2 Monitoring Well 2 Downgradient) To Be Reported Quarterly

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Depth to water level ft below landsurface ^[1]	Daily Minimum	M&R Feet (ft)		Groundwater	MW2	Quarterly	INSITU
Water level relative to mean sea level ^[2]	Daily Maximum	M&R Feet (ft)		Groundwater	MW2	Quarterly	CALCTD
pH	Value		M&R Standard Units (SU)	Groundwater	MW2	Quarterly	DISCRT
Chloride (as Cl)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW2	Quarterly	DISCRT
Solids, total dissolved	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW2	Quarterly	DISCRT
Nitrogen, total	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW2	Quarterly	DISCRT

Notes (Groundwater Monitoring Wells Table):

1. Depth to groundwater.
2. Groundwater elevation above mean sea level (AMSL).

Groundwater Monitoring Wells Table for Sample Location Mw2 (Phase 2 Monitoring Well 2 Downgradient) To Be Reported Annually

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Alkalinity, bicarbonate (as CaCO ₃)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW2	Annual	DISCRT
Alkalinity, total (as CaCO ₃)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW2	Annual	DISCRT
Aluminum, total (as Al)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW2	Annual	DISCRT
Antimony, total (as Sb)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW2	Annual	DISCRT
Arsenic, total (as As)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW2	Annual	DISCRT
Barium, total (as Ba)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW2	Annual	DISCRT
Beryllium, total (as Be)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW2	Annual	DISCRT
Cadmium, total (as Cd)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW2	Annual	DISCRT
Calcium, total (as Ca)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW2	Annual	DISCRT
Chloride (as Cl)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW2	Annual	DISCRT
Chromium, total (as Cr)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW2	Annual	DISCRT
			M&R				

Groundwater Monitoring Wells Table for Sample Location Mw2 (Phase 2 Monitoring Well 2 Downgradient) To Be Reported Annually

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Copper, total (as Cu)	Daily Maximum		Milligrams per Liter (mg/L)	Groundwater	MW2	Annual	DISCRT
Fluoride, total (as F)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW2	Annual	DISCRT
Iron, total (as Fe)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW2	Annual	DISCRT
Lead, total (as Pb)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW2	Annual	DISCRT
Magnesium, total (as Mg)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW2	Annual	DISCRT
Manganese, total (as Mn)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW2	Annual	DISCRT
Mercury, total (as Hg)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW2	Annual	DISCRT
Nitrite plus nitrate total 1 det. (as N)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW2	Annual	DISCRT
Nitrogen, total	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW2	Annual	DISCRT
pH, maximum	Daily Maximum		M&R Standard Units (SU)	Groundwater	MW2	Annual	DISCRT
pH, minimum	Daily Minimum		M&R Standard Units (SU)	Groundwater	MW2	Annual	DISCRT
Potassium, total (as K)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW2	Annual	DISCRT

Groundwater Monitoring Wells Table for Sample Location Mw2 (Phase 2 Monitoring Well 2 Downgradient) To Be Reported Annually

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Selenium, total (as Se)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW2	Annual	DISCRT
Silver, total (as Ag)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW2	Annual	DISCRT
Sodium, total (as Na)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW2	Annual	DISCRT
Sulfate, total (as SO4)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW2	Annual	DISCRT
Thallium, total (as Tl)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW2	Annual	DISCRT
Solids, total dissolved	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW2	Annual	DISCRT
Uranium, natural, total	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW2	Annual	DISCRT
Cyanide, weak acid, dissociable	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW2	Annual	DISCRT
Zinc, total (as Zn)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW2	Annual	DISCRT

Groundwater Monitoring Wells Table for Sample Location Mw3 (Phase 2 Monitoring Well 3 Downgradient) To Be Reported Quarterly

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Depth to water level ft below landsurface ^[1]	Daily Minimum	M&R Feet (ft)		Groundwater	MW3	Quarterly	INSITU
Water level relative to mean sea level ^[2]	Daily Maximum	M&R Feet (ft)		Groundwater	MW3	Quarterly	CALCTD
pH	Value		M&R Standard Units (SU)	Groundwater	MW3	Quarterly	DISCRT
Chloride (as Cl)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW3	Quarterly	DISCRT
Solids, total dissolved	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW3	Quarterly	DISCRT
Nitrogen, total	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW3	Quarterly	DISCRT

Notes (Groundwater Monitoring Wells Table):

1. Depth to groundwater.
2. Groundwater elevation above mean sea level (AMSL).

Groundwater Monitoring Wells Table for Sample Location Mw3 (Phase 2 Monitoring Well 3 Downgradient) To Be Reported Annually

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Alkalinity, bicarbonate (as CaCO ₃)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW3	Annual	DISCRT
Alkalinity, total (as CaCO ₃)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW3	Annual	DISCRT
Aluminum, total (as Al)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW3	Annual	DISCRT
Antimony, total (as Sb)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW3	Annual	DISCRT
Arsenic, total (as As)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW3	Annual	DISCRT
Barium, total (as Ba)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW3	Annual	DISCRT
Beryllium, total (as Be)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW3	Annual	DISCRT
Cadmium, total (as Cd)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW3	Annual	DISCRT
Calcium, total (as Ca)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW3	Annual	DISCRT
Chloride (as Cl)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW3	Annual	DISCRT
Chromium, total (as Cr)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW3	Annual	DISCRT
			M&R				

Groundwater Monitoring Wells Table for Sample Location Mw3 (Phase 2 Monitoring Well 3 Downgradient) To Be Reported Annually

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Copper, total (as Cu)	Daily Maximum		Milligrams per Liter (mg/L)	Groundwater	MW3	Annual	DISCRT
Fluoride, total (as F)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW3	Annual	DISCRT
Iron, total (as Fe)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW3	Annual	DISCRT
Lead, total (as Pb)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW3	Annual	DISCRT
Magnesium, total (as Mg)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW3	Annual	DISCRT
Manganese, total (as Mn)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW3	Annual	DISCRT
Mercury, total (as Hg)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW3	Annual	DISCRT
Nitrite plus nitrate total 1 det. (as N)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW3	Annual	DISCRT
Nitrogen, total	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW3	Annual	DISCRT
pH, maximum	Daily Maximum		M&R Standard Units (SU)	Groundwater	MW3	Annual	DISCRT
pH, minimum	Daily Minimum		M&R Standard Units (SU)	Groundwater	MW3	Annual	DISCRT
Potassium, total (as K)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW3	Annual	DISCRT

Groundwater Monitoring Wells Table for Sample Location Mw3 (Phase 2 Monitoring Well 3 Downgradient) To Be Reported Annually

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Selenium, total (as Se)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW3	Annual	DISCRT
Silver, total (as Ag)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW3	Annual	DISCRT
Sodium, total (as Na)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW3	Annual	DISCRT
Sulfate, total (as SO4)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW3	Annual	DISCRT
Thallium, total (as Tl)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW3	Annual	DISCRT
Solids, total dissolved	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW3	Annual	DISCRT
Uranium, natural, total	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW3	Annual	DISCRT
Cyanide, weak acid, dissociable	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW3	Annual	DISCRT
Zinc, total (as Zn)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW3	Annual	DISCRT

Groundwater Monitoring Wells Table for Sample Location Mw4 (Phase 1 Monitoring Well 4) To Be Reported Quarterly

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Depth to water level ft below landsurface ^[1]	Daily Minimum	M&R Feet (ft)		Groundwater	MW4	Quarterly	INSITU
Water level relative to mean sea level ^[2]	Daily Maximum	M&R Feet (ft)		Groundwater	MW4	Quarterly	CALCTD
pH	Value		M&R Standard Units (SU)	Groundwater	MW4	Quarterly	DISCRT
Chloride (as Cl)	30 Day Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW4	Quarterly	DISCRT
Solids, total dissolved	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW4	Quarterly	DISCRT
Nitrogen, total	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW4	Quarterly	DISCRT

Notes (Groundwater Monitoring Wells Table):

1. Depth to groundwater.
2. Groundwater elevation above mean sea level (AMSL).

Groundwater Monitoring Wells Table for Sample Location Mw4 (Phase 1 Monitoring Well 4) To Be Reported Annually

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Alkalinity, bicarbonate (as CaCO ₃)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW4	Annual	DISCRT
Alkalinity, total (as CaCO ₃)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW4	Annual	DISCRT
Aluminum, total (as Al)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW4	Annual	DISCRT
Antimony, total (as Sb)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW4	Annual	DISCRT
Arsenic, total (as As)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW4	Annual	DISCRT
Barium, total (as Ba)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW4	Annual	DISCRT
Beryllium, total (as Be)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW4	Annual	DISCRT
Cadmium, total (as Cd)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW4	Annual	DISCRT
Calcium, total (as Ca)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW4	Annual	DISCRT
Chloride (as Cl)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW4	Annual	DISCRT
Chromium, total (as Cr)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW4	Annual	DISCRT
			M&R				

Groundwater Monitoring Wells Table for Sample Location Mw4 (Phase 1 Monitoring Well 4) To Be Reported Annually

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Copper, total (as Cu)	Daily Maximum		Milligrams per Liter (mg/L)	Groundwater	MW4	Annual	DISCRT
Fluoride, total (as F)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW4	Annual	DISCRT
Iron, total (as Fe)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW4	Annual	DISCRT
Lead, total (as Pb)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW4	Annual	DISCRT
Magnesium, total (as Mg)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW4	Annual	DISCRT
Manganese, total (as Mn)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW4	Annual	DISCRT
Mercury, total (as Hg)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW4	Annual	DISCRT
Nitrite plus nitrate total 1 det. (as N)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW4	Annual	DISCRT
Nitrogen, total	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW4	Annual	DISCRT
pH, maximum	Daily Maximum		M&R Standard Units (SU)	Groundwater	MW4	Annual	DISCRT
pH, minimum	Daily Minimum		M&R Standard Units (SU)	Groundwater	MW4	Annual	DISCRT
Potassium, total (as K)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW4	Annual	DISCRT

Groundwater Monitoring Wells Table for Sample Location Mw4 (Phase 1 Monitoring Well 4) To Be Reported Annually

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Selenium, total (as Se)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW4	Annual	DISCRT
Silver, total (as Ag)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW4	Annual	DISCRT
Sodium, total (as Na)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW4	Annual	DISCRT
Sulfate, total (as SO4)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW4	Annual	DISCRT
Thallium, total (as Tl)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW4	Annual	DISCRT
Solids, total dissolved	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW4	Annual	DISCRT
Uranium, natural, total	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW4	Annual	DISCRT
Cyanide, weak acid, dissociable	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW4	Annual	DISCRT
Zinc, total (as Zn)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW4	Annual	DISCRT

Groundwater Monitoring Wells Table for Sample Location Mw5 (Phase 1 Monitoring Well 5) To Be Reported Quarterly

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Depth to water level ft below landsurface ^[1]	Daily Minimum	M&R Feet (ft)		Groundwater	MW5	Quarterly	INSITU
Water level relative to mean sea level ^[2]	Daily Maximum	M&R Feet (ft)		Groundwater	MW5	Quarterly	CALCTD
pH	Value		M&R Standard Units (SU)	Groundwater	MW5	Quarterly	DISCRT
Chloride (as Cl)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW5	Quarterly	DISCRT
Solids, total dissolved	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW5	Quarterly	DISCRT
Nitrogen, total	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW5	Quarterly	DISCRT

Notes (Groundwater Monitoring Wells Table):

1. Depth to groundwater.
2. Groundwater elevation above mean sea level (AMSL).

Groundwater Monitoring Wells Table for Sample Location Mw5 (Phase 1 Monitoring Well 5) To Be Reported Annually

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Alkalinity, bicarbonate (as CaCO3)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW5	Annual	DISCRT
Alkalinity, total (as CaCO3)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW5	Annual	DISCRT
Aluminum, total (as Al)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW5	Annual	DISCRT
Antimony, total (as Sb)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW5	Annual	DISCRT
Arsenic, total (as As)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW5	Annual	DISCRT
Barium, total (as Ba)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW5	Annual	DISCRT
Beryllium, total (as Be)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW5	Annual	DISCRT
Cadmium, total (as Cd)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW5	Annual	DISCRT
Calcium, total (as Ca)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW5	Annual	DISCRT
Chloride (as Cl)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW5	Annual	DISCRT
Chromium, total (as Cr)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW5	Annual	DISCRT
			M&R				

Groundwater Monitoring Wells Table for Sample Location Mw5 (Phase 1 Monitoring Well 5) To Be Reported Annually

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Copper, total (as Cu)	Daily Maximum		Milligrams per Liter (mg/L)	Groundwater	MW5	Annual	DISCRT
Fluoride, total (as F)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW5	Annual	DISCRT
Iron, total (as Fe)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW5	Annual	DISCRT
Lead, total (as Pb)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW5	Annual	DISCRT
Magnesium, total (as Mg)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW5	Annual	DISCRT
Manganese, total (as Mn)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW5	Annual	DISCRT
Mercury, total (as Hg)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW5	Annual	DISCRT
Nitrite plus nitrate total 1 det. (as N)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW5	Annual	DISCRT
Nitrogen, total	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW5	Annual	DISCRT
pH, maximum	Daily Maximum		M&R Standard Units (SU)	Groundwater	MW5	Annual	DISCRT
pH, minimum	Daily Minimum		M&R Standard Units (SU)	Groundwater	MW5	Annual	DISCRT
Potassium, total (as K)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW5	Annual	DISCRT

Groundwater Monitoring Wells Table for Sample Location Mw5 (Phase 1 Monitoring Well 5) To Be Reported Annually

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Selenium, total (as Se)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW5	Annual	DISCRT
Silver, total (as Ag)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW5	Annual	DISCRT
Sodium, total (as Na)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW5	Annual	DISCRT
Sulfate, total (as SO4)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW5	Annual	DISCRT
Thallium, total (as Tl)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW5	Annual	DISCRT
Solids, total dissolved	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW5	Annual	DISCRT
Uranium, natural, total	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW5	Annual	DISCRT
Cyanide, weak acid, dissociable	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW5	Annual	DISCRT
Zinc, total (as Zn)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW5	Annual	DISCRT

Ponds / Rapid Infiltration Basins for Sample Location Fc1 (Phase 2 Facultative Cell 1) To Be Reported Monthly^[1]

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Freeboard	Minimum	>= 2 Feet (ft)		Effluent Gross	FC1	Monthly	VISUAL
pH, maximum	Daily Maximum		<= 9 Standard Units (SU)	Effluent Gross	FC1	Monthly	DISCRT
pH, minimum	Daily Minimum		>= 6 Standard Units (SU)	Effluent Gross	FC1	Monthly	DISCRT
Solids, total suspended	30 Day Average		<= 45 Milligrams per Liter (mg/L)	Effluent Gross	FC1	Monthly	DISCRT
Solids, suspended percent removal	Monthly Minimum		>= 65 Percent (%)	Effluent Gross	FC1	Monthly	DISCRT
BOD, carbonaceous, 05 day, 20 C	30 Day Average		<= 40 Milligrams per Liter (mg/L)	Effluent Gross	FC1	Monthly	DISCRT
BOD, carb-5 day, 20 deg C, percent removal	Monthly Minimum		>= 65 Percent (%)	Effluent Gross	FC1	Monthly	DISCRT
Nitrogen, total	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	FC1	Monthly	DISCRT

Notes (Ponds / Rapid Infiltration Basins):

1. The correct effluent sampling point is at the discharge from the Phase 2 Facultative Cell 1.

Ponds / Rapid Infiltration Basins for Sample Location Fc1 (Phase 2 Facultative Cell 1) To Be Reported Quarterly

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Sludge/Solids, depth	Maximum	<= 2 Feet (ft)		Internal Monitoring Point	FC1	Quarterly	VISUAL

Ponds / Rapid Infiltration Basins for Sample Location Fc2 (Phase 2 Facultative Cell 2) To Be Reported Monthly^[1]

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Freeboard	Minimum	>= 2 Feet (ft)		Effluent Gross	FC2	Monthly	VISUAL
pH, maximum	Daily Maximum		<= 9 Standard Units (SU)	Effluent Gross	FC2	Monthly	DISCRT
pH, minimum	Daily Minimum		>= 6 Standard Units (SU)	Effluent Gross	FC2	Monthly	DISCRT
Solids, total suspended	30 Day Average		<= 45 Milligrams per Liter (mg/L)	Effluent Gross	FC2	Monthly	DISCRT
Solids, suspended percent removal	Monthly Minimum		>= 65 Percent (%)	Effluent Gross	FC2	Monthly	DISCRT
BOD, carbonaceous, 05 day, 20 C	30 Day Average		<= 40 Milligrams per Liter (mg/L)	Effluent Gross	FC2	Monthly	DISCRT
BOD, carb-5 day, 20 deg C, percent removal	Monthly Minimum		>= 65 Percent (%)	Effluent Gross	FC2	Monthly	DISCRT
Nitrogen, total	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	FC2	Monthly	DISCRT

Notes (Ponds / Rapid Infiltration Basins):

1. The correct effluent sampling point is at the discharge from the Phase 2 Facultative Cell 2.

Ponds / Rapid Infiltration Basins for Sample Location Fc2 (Phase 2 Facultative Cell 2) To Be Reported Quarterly

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Sludge/Solids, depth	Maximum	<= 2 Feet (ft)		Internal Monitoring Point	FC2	Quarterly	VISUAL

Ponds / Rapid Infiltration Basins for Sample Location Pb1 (Phase 1 N Perc Basin) To Be Reported Monthly

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Freeboard	Minimum	>= 2 Feet (ft)		Primary/Preliminary Process Complete	PB1	Monthly	VISUAL

Ponds / Rapid Infiltration Basins for Sample Location Pb2 (Phase 1 S Perc Basin) To Be Reported Monthly

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Freeboard	Minimum	>= 2 Feet (ft)		Primary/Preliminary Process Complete	PB2	Monthly	VISUAL

Ponds / Rapid Infiltration Basins for Sample Location Pd1 (Phase 1 Lined Pond 1) To Be Reported Monthly^[1]

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Freeboard	Minimum	>= 2 Feet (ft)		Effluent Gross	PD1	Monthly	VISUAL
Sludge/Solids, depth	Maximum	<= 2 Feet (ft)		Effluent Gross	PD1	Monthly	VISUAL
pH, maximum	Daily Maximum		<= 9 Standard Units (SU)	Effluent Gross	PD1	Monthly	DISCRT
pH, minimum	Daily Minimum		>= 6 Standard Units (SU)	Effluent Gross	PD1	Monthly	DISCRT
Nitrogen, total	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	PD1	Monthly	DISCRT
Solids, total suspended	30 Day Average		<= 45 Milligrams per Liter (mg/L)	Effluent Gross	PD1	Monthly	DISCRT
Solids, suspended percent removal	Monthly Minimum		>= 65 Percent (%)	Effluent Gross	PD1	Monthly	DISCRT
BOD, carbonaceous, 05 day, 20 C	Daily Maximum		<= 40 Milligrams per Liter (mg/L)	Effluent Gross	PD1	Monthly	DISCRT
BOD, carb-5 day, 20 deg C, percent removal	Monthly Minimum		>= 65 Percent (%)	Effluent Gross	PD1	Monthly	DISCRT

Notes (Ponds / Rapid Infiltration Basins):

- The correct effluent sampling point is at the discharge from the Phase 1 Lined Pond 1 into the Phase 1 N and S Percolation Basins.

Ponds / Rapid Infiltration Basins for Sample Location Pd2 (Phase 1 Lined Pond 2) To Be Reported Monthly^[1]

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Freeboard	Minimum	>= 2 Feet (ft)		Effluent Gross	PD2	Monthly	VISUAL
Sludge/Solids, depth	Maximum	<= 2 Feet (ft)		Effluent Gross	PD2	Monthly	VISUAL
pH, maximum	Daily Maximum		<= 9 Standard Units (SU)	Effluent Gross	PD2	Monthly	DISCRT
pH, minimum	Daily Minimum		>= 6 Standard Units (SU)	Effluent Gross	PD2	Monthly	DISCRT
Nitrogen, total	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	PD2	Monthly	DISCRT
Solids, total suspended	30 Day Average		<= 45 Milligrams per Liter (mg/L)	Effluent Gross	PD2	Monthly	DISCRT
Solids, suspended percent removal	Monthly Minimum		>= 65 Percent (%)	Effluent Gross	PD2	Monthly	DISCRT
BOD, carbonaceous, 05 day, 20 C	30 Day Average		<= 40 Milligrams per Liter (mg/L)	Effluent Gross	PD2	Monthly	DISCRT
BOD, carb-5 day, 20 deg C, percent removal	Monthly Minimum		>= 65 Percent (%)	Effluent Gross	PD2	Monthly	DISCRT

Notes (Ponds / Rapid Infiltration Basins):

1. The correct effluent sampling point is at the discharge from the Phase 1 Lined Pond 2 into the Phase 1 N and S Percolation Basins.

Ponds / Rapid Infiltration Basins for Sample Location R01 (Phase 2 Rib 1) To Be Reported Monthly

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Freeboard	Minimum	>= 2 Feet (ft)		Primary/Preliminary Process Complete	R01	Monthly	VISUAL

Ponds / Rapid Infiltration Basins for Sample Location R02 (Phase 2 Rib 2) To Be Reported Monthly

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Freeboard	Minimum	>= 2 Feet (ft)		Primary/Preliminary Process Complete	R02	Monthly	VISUAL

Summary of Changes From Previous Permit

The Permittee is proposing to construct a new WWTF and discontinue use of the current system. Outfalls associated with the new system have been added to the permit, they include:

- Outfalls FC1 and FC2 are associated with the phase 2 facultative treatment cells.
- Outfalls R01 and R02 are associated with the phase 2 RIBs.
- Outfalls S01 through S04 are associated with phase 2 septic tanks.
- Outfalls MW1 through MW3 are associated with phase 2 monitoring wells (One (1) up gradient and two (2) down gradient.).
- Outfall FL2 is associated with the flume. The domestic sewage is discharged to one (1) of four (4) phase 2 septic tanks.

The updated limits for CBOD₅ and TSS applied to this permit are secondary treatment standards, as allowed by CFR Title 40 section 133, and have been adopted by the state of Nevada:

CBOD₅: The daily maximum is limited to 40 mg/L. The 30-day average percent removal shall not be less than 65 percent.

TSS: The daily maximum is limited to 30 mg/L. The 30-day average percent removal shall not be less than 85 percent.

Technology Based Effluent Limitations

Effluent limitations for outfalls FC1 and FC2 are taken from the Code of Federal Regulations (CFR) Title 40 section CFR § 133.105 Treatment equivalent to secondary treatment. Technology based effluent limitations (TBELs) are required, as promulgated, by the United States Environmental Protection Agency (EPA) for Publicly Owned Treatment Works (POTWs). The following limits are based on secondary treatment standards, as allowed by the CFR Title 40 section 133, and which have been adopted by the state of Nevada:

CBOD₅: The 30-day average is limited to 40 mg/L. The 30-day average percent removal shall not be less than 65 percent.

TSS: The 30-day average is limited to 45 mg/L. The 30-day average percent removal shall not be less than 65 percent.

pH: The effluent values for pH shall be maintained within the limits of 6.0 to 9.0.

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)

Historically monitoring wells have been sampled quarterly for similar facilities. Additional constituent elements shall be monitored at the Phase 2 monitoring wells in order to measure mobilization and transport

of pollutants through the abutting down gradient mine tailings.

Basis for Effluent Limitations

The discharge flow rate limit of 0.063 MGD is based on projected potential use and past documented use.

Profile 1 is sampled for in monitoring wells due to the abutting abandoned Anaconda copper mine.

Anti-backsliding

To prevent backsliding, effluent limitations in a reissued permit are required to be as stringent as those in the previous permit. None of the proposed permit effluent limitations were changed to a less restrictive limit compared to those in the previous permit.

Antidegradation

The Division has developed an antidegradation regulation that is applied on a statewide basis, and which meets the statutory requirements of Nevada’s water pollution control law found at Nevada Revised Statute (NRS) 445A.520 and NRS 445A.565 and is consistent with the federal antidegradation policy found at Title 40 in the Code of Federal Regulations (CFR) § 131.12. The objective of the Division’s antidegradation regulation is to prevent degradation of Nevada’s surface waters and maintain the unique attributes and special characteristics and water quality associated with high-quality waters.

As this permit is for discharges to groundwater, and not surface water, the new antidegradation rule is not applicable. There are currently no specific water quality standards that have been formally adopted by the State for groundwater, however, data reviewed during the renewal process does not indicate the potential for degradation of the groundwater from the sewage discharged within the compliance limits of the proposed permit.

Special Conditions

The Permittee shall operate the facility in compliance with permit provisions and requirements and in accordance with the division approved Operation and Maintenance (O&M) Manual.

SA – Special Approvals / Conditions Table

Item #	Description
1	The rated treatment capacity of each septic tank shall not be exceeded.
2	All DMRs shall be submitted electronically through the Nevada NetDMR website: https://netdmr.ndep.nv.gov/netdmr/public . ^[1]
3	The Permittee shall conduct regular and routine inspections and maintenance in accordance with the Division approved O&M Manual. Any observations of septage surfacing or leaking in or around the WWTF, at any time, shall be reported to the Division within 48 hours.
4	Since Weed Heights' septic capacity is >=10,000 gallons and the treatment process used is primary treatment of septage, in accordance with NAC 445A.286 and NAC 445A.289, the Division will require the operation and reporting of Weed Heights' septic systems under the licensure of a Grade I (minimum) or above, Wastewater Operator.
5	The septic tank treatment and disposal systems shall be used only for the treatment of domestic sewage. Domestic sewage is defined in NAC 445A.9532 and means any liquid and waterborne waste that is derived from the ordinary living process and is such a character as to permit its satisfactory disposal into a public sewer or an onsite sewage disposal system without special treatment. The term does not include industrial waste.
6	Septic tank(s) shall be pumped by a licensed septage hauler whenever the combined depth of scum and sludge equals or exceeds 50% of the total liquid depth, or more frequently as necessary to maintain efficient solids removal. Septic tanks shall be pumped at least once every three years for maintenance purposes. The date, tank number, volume of septage removed, and the name of the septage hauler shall be maintained onsite in accordance with Part A.2.8. of the permit. Sludge disposal shall be in accordance with applicable regulations.
	Facility Construction: collection, treatment, and/or disposal facilities shall be constructed in

Item #	Description
7	conformance with plans approved by the Division. All plans must be approved by the Division prior to the start of construction and must be stamped by a Nevada Registered Professional Engineer or other qualified person. All changes to any plans approved by the Division must be stamped by a Nevada Registered Professional Engineer as stated above and be reapproved by the Division prior to implementation.
8	Sewage Sludge Management: facilities that generate and dispose of sewage sludge or biosolids shall comply with applicable local, State, and Federal regulations, including but not limited to, 40 Code of Federal Regulations Parts 503 and 258. Authorization for land application, incineration, or surface disposal of sewage sludge or biosolids is not governed under the provisions or intent of this permit.
9	The Permittee shall submit plans to install one (1) new up gradient and two (2) new down-gradient monitoring wells at the new WWTF location (Phase 2) for review and approval by the Division.
10	The Permittee shall install one (1) new up gradient and two (2) new down-gradient monitoring wells at the new WWTF location (Phase 2) prior to discharge to the new WWTF as per the approved plan submitted for SA #9.

Notes (Special Approvals / Conditions Table):

- The Quarterly Discharge Monitoring Report shall consist of the results of the visual inspection performed on all septic tanks. All reports of 'Fail' and/or '1' in reference to the parameter "Outfall observation, visual, y/n response" shall be accompanied by a narrative report detailing reasons a 'Fail' and/or '1' was provided.

Discharges From Future Outfalls/ Planned Facility Changes

The Permittee is proposing to relocate the WWTF. The relocated WWTF will include septic tanks for primary wastewater settling (4 x 25,000 gal. tanks), two (2) facultative treatment ponds for biological treatment (one (1) primary and one (1) secondary pond and one (1) solar powered recirculation unit in the primary pond), two (2) effluent infiltration basins, and three (3) groundwater monitoring wells (one (1) upgradient and two (2) downgradient wells).

Corrective Action Sites

There is one (1) Bureau of Corrective Actions site located within a 1-mile radius of this facility, alt site ID C-000007.

Wellhead Protection Program

The closest Public Water System (PWS) well is located approximately 3.5 miles southeast of the outfall R01. The outfalls are not located within a Drinking Water Protection Area, which is defined by a 3,000-foot radius around a PWS well, or a Wellhead Protection Area, which represents an approximate 10-year capture zone of a well.

Schedule of Compliance:

SOC – Schedule of Compliance Table

Item #	Description	Due Date
1	The Permittee shall submit two (2) copies ((1) one electronic and (1) one hard copy) of an updated septic system Operation and Maintenance (O&M) Manual for review and approval by the Division. The O&M Manual shall be prepared by a Nevada Registered Professional Engineer and in accordance with NDEP Guidance Document WTS-2. The O&M Manual shall include an updated site map showing the location of septic tanks. If no updates or revisions are required, the Permittee shall submit a letter by the due date stating that there have been no changes to the previously approved O&M Manual.	1/1/2025
2	The Permittee shall submit the name and license number of their operator to NDEP within thirty (30) days of permit issuance.	12/1/2024
3	Within one (1) year of the permit issuance, the Permittee shall submit the Annual Large-Capacity Septic System Evaluation Report for each system via attachment on NetDMR. Form attached.	11/1/2025
4	The Permittee shall submit a Formal Abandonment Plan (WTS-20) prepared by a licensed P.E. to properly decommission the existing WWTF and characterize and sample the old accumulated septage and pond biosolids, which included waste from the Anaconda operations at least up until 2011 per BWPC records.	1/1/2025

Deliverable Schedule:

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

Item #	Description	Interval	First Scheduled Due Date
1	Discharge Monitoring Reports ^[1]	Quarterly	1/28/2025
2	Annual Reports	Annually	1/28/2025

Notes (Deliverable Schedule for Reports, Plans, and Other Submittals):

1. The Quarterly Discharge Monitoring Report shall consist of the results of the visual inspection performed on all septic tanks. All reports of 'Fail' and/or '1' in reference to the parameter "Outfall observation, visual, y/n response" shall be accompanied by a narrative report detailing reasons a 'Fail' and/or '1' was provided.

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. **10/14/2024**, 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: **Aaron Park**
 Date: **9/12/2024**
 Title: **Staff I, Associate Engineer**



Nevada Division of Environmental Protection
Bureau of Water Pollution Control
 901 South Stewart Street, Suite 4001
 Carson City, Nevada 89701-5249
 Ph: 775-687-9418

Annual Large-Capacity Septic System Evaluation Report

Permit Number: _____

This form is meant to collect information that will help 1) you report required information on your system(s) and 2) maintain your septic system(s) to prevent system failure. **Failure to check your system on a regular basis will lead to system failure, public health hazards, enforcement action, and very costly repairs.** Your system may require checking more frequently than once each year.

Facility Name: _____ Contact Person: _____

Facility Address: _____ Facility Phone: _____

Facility City/Zip Code: _____

Number of septic tanks _____; and Size of each tank in gallons on your property: _____

Does the system have a grease trap/interceptor? **Yes No** Does the system have a sand oil separator? **Yes No**

Year system installed: _____ System designed by: _____

Type and number of facilities, persons or units served: _____
 (i.e. mobile home park – number of sites; school – number of students & staff)

Please complete a separate form for each septic tank/system for the information below.

Level of	Date measured	By whom	Depth(s)	Method(s) used	Tank must be pumped if: Total of scum and sludge depths are equal to or greater than 50% of the liquid depth Scum _____ + Sludge _____ = _____ $(S_{Total} / L_{Total}) \times 100 = \text{_____} \%$
Scum:					
Sludge:					
Total Liquid:					

Leach/Drain field conditions (circle one each): Winter: Dry Damp Wet Summer: Dry Damp Wet
 (If field is Damp, field may be failing. If field is Wet, you must contact an engineer to evaluate system, and our office immediately)

Date septic tank last pumped: _____ Volume of septage pumped: _____ Name of pumping company: _____

Dates and types of maintenance performed on any components of system (grease traps and sand oil separators require routine maintenance, and should be pumped as necessary, but pumping must occur every six (6) months):

Are Monitoring Wells present at location? Yes No
 If yes, number present _____ If Yes, attach copy of laboratory analysis.

Are piezometers present within the drain field area? Yes No
 If yes, number present: _____ Readings and dates of reading: _____

PLEASE NOTE: ATTACH THE ON-SITE MAINTENANCE LOG WHEN RETURNING THIS FORM

Please print your name, sign and date below:

Print Name _____	Signature _____	Date _____
------------------	-----------------	------------