NEVADA DIVISION OF
ENVIRONMENTAL
PROTECTION

A division of the
Nevada Department of Conservation & Natural Resources

STATE OF NEVADA
Joe Lombardo, *Governor*
Vinson Guthreau, *Director*
Jennifer L. Carr, *Administrator*

901 S. Stewart Street, Suite 4001
Carson City, Nevada 89701
p: 775-687-4670 f: 775-687-5856
ndep.nv.gov

FACTSHEET
(pursuant to NAC 445A.236)

Permittee Name: STIRLING CLUB LLC

2827 PARADISE RD
LAS VEGAS, NV 89109

Permit Number: NV0023256

Permit Type: MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURAL FACILITY THAT DISCHARGES NON-PROCESS WASTEWATER

Designation: MINOR NPDES

New/Existing: EXISTING

Location: STIRLING CLUB LLC, CLARK
2827 PARADISE ROAD, LAS VEGAS, NV 89109
LATITUDE: 36.138522, LONGITUDE: -115.154970
TOWNSHIP: T21S, RANGE: R61E, SECTION: S9

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Latitude	Longitude	Receiving Water
01A	INFLUENT TO CARBON SYSTEM	Internal Outfall		36.136667	-115.155278	INFLUENT TO CARBON SYSTEM
01B	MIDFLUENT TO FINAL CARBON CANISTER	Internal Outfall		36.136667	-115.155278	LAS VEGAS WASH VIA STORM DRAIN
01C	DEWATERING SYSTEM DISCHARGE - EFFLUENT FROM CARBON SYSTEM	External Outfall		36.138687	-115.155007	LAS VEGAS WASH VIA STORM DRAIN

Permit History/Description of Proposed Action
The Permittee, Stirling Club LLC, has applied for the renewal of their National Pollutant Discharge Elimination System Permit NV0023256, for their club and Turnberry Place Towers located at 2827 Paradise Road, in Las Vegas, within Clark County, Nevada. The Permittee proposes to continue to discharge intercepted groundwater to the Las Vegas Wash via the Clark County storm drain system.

This permit was first issued on March 3, 2003. The most recent permit was issued on February 7, 2017, and expired on February 6, 2022; the permit has been administratively continued since.

Facility Overview
Stirling Club LLC (Stirling) manages Turnberry Place Towers #1-4 (condominiums) and the Stirling Club (residential dining, entertainment & fitness center). The permit authorizes the Permittee to discharge treated groundwater found in the below-grade parking level of its facility. The groundwater in the area is impacted with low levels of tetrachloroethylene (PCE) which originated from an offsite source. The facility's parking level is located beneath the shallow groundwater table. To prevent structural damage and the occurrence of nuisance water, the facility captures and treats the groundwater, then discharges the water, via the storm

drain system, to the Flamingo Wash, which outlets into the Las Vegas Wash.

The facility uses a slab underdrain, and perimeter drains to capture the groundwater. The drains lead to four separate sump pits (pits 1, 2, 3, and 4). The sump pits are at the lowest level of the parking garage. Each sump pit is placed below the concrete floor slab and protected by a traffic rated steel cover. Groundwater in pits 1, 2, and 3 is pumped into pit 4. A large submersible pump then pumps the groundwater from pit 4 to the granulated activated carbon (GAC) treatment vessels, which remove the PCE.

From the GAC vessels, the treated groundwater is discharged to the Las Vegas Wash via a storm drain drop inlet on Paradise Road in Las Vegas.

The Stirling's Operation and Maintenance (O&M) Manual was last reviewed and approved on May 12, 2017. The Technical, Compliance, and Enforcement Branch of the Bureau of Water Pollution Control requires O&M Manuals to be updated every ten (10) years, with an updated O&M Manual due on May 12, 2027.

Outfall Summary
Outfall 01A (Influent to Carbon System): This internal outfall is for the incoming nuisance groundwater, prior to entering the GAC treatment system, and is located at Stirling's parking garage.

Outfall 01B (Midfluent to Final Carbon Canister): This internal monitoring point is located after the first canister, and before the second canister, of the GAC System.

Outfall 01C (Dewatering System Discharge – Effluent from Carbon System): This external outfall is located at the storm drain drop inlet on Paradise Road prior to the treated groundwater entering the Las Vegas storm drain system.

Effluent Characterization
Nevada State Network Discharge Monitoring Report (NetDMR) data, as reported from the years 2020 to 2025, was reviewed as part of this permit renewal process. The long-term average daily maximum flow rate was 24,270 gallons per day (Gal/d). The daily maximum flow limit is 249,000 Gal/d. Based on the numbers reported, there were no exceedances of this limit.

Notes:
ug/L = Micrograms per Liter
mg/L = Milligrams per Liter
Gal/d = Gallons per Day
N = Nitrogen
S.U.= Standard Units
TDS = Total Dissolved Solids

Outfall 01A (Influent to Carbon System):
Chloroform: 4.31 ug/L
Tetrachloroethylene: 2.80 ug/L

Outfall 01B (Midfluent to Final Carbon Canister):
Chloroform: 5.43 ug/L (this average concentration could be based on limited capacity, breakthrough, or carbon saturation)
Tetrachloroethylene: 2.62 ug/L

Outfall 01C (Dewatering System Discharge – Effluent from Carbon System)
Ammonia as N: 0.05 mg/L
Barium: 15.62 ug/L
Boron: 734 ug/L
Calcium: 241,429 ug/L
Chloroform: 5.03 ug/L
Chromium: 5.03 ug/L

Copper: 35 ug/L
Fluoride: 564 mg/L
Iron: 1,079 ug/L
Lead: 6.75 ug/L (2 instances, *)
Magnesium: 136,714 ug/L
Manganese: 125.78 ug/L
Methyl Bromide: 0.3 ug/L (2 instances, *)
Methyl tert-butyl ether: 0.05 ug/L (1 instance, *)
Molybdenum: 41.4 ug/L
Nickel: 7.05 ug/L (2 instances, *)
Nitrate as N: 4.05 mg/L
Nitrogen: 4.0 mg/L
Total Inorganic Nitrogen: 3.99 mg/L
Selenium: 12 ug/L
Tetrachloroethylene (PCE): 1.94 ug/L
Thallium: 23.09 ug/L
TDS: 2,090 mg/L
Zinc: 401.45 ug/L

*The remaining reported instances were below detection.

If a permitted parameter is not listed above, with its specific outfall, then the reported concentrations were below detection.

Pollutants of Concern
Pollutants of concern are any pollutant, or parameters, that are believed to be present in the discharge and could affect or alter the physical, chemical, or biological conditions of the receiving water. Pollutants of concern are Ammonia as N, Boron, Copper, Iron, Manganese, Phosphorus, Selenium, TDS, Tetrachloroethylene, and Zinc, along with VOCs and toxic materials.

Receiving Water
The dewatering system discharges into a Clark County storm drain inlet, and into the Flamingo Wash, which eventually discharges to the Upper Las Vegas Wash.

Applicable Water Quality Standards/Beneficial Uses
The water quality standards (WQSs) for the nearest downstream control point, Las Vegas Wash at the Historic Lateral (NAC 445A.2156) apply. WQSs for this segment of the Las Vegas Wash include beneficial uses for watering of livestock, irrigation, aquatic life, recreation not involving contact with the water, propagation of wildlife, and maintenance of a freshwater marsh.

Additional WQSs applicable to this section of the Las Vegas Wash include toxic materials (NAC 445A.1236). Furthermore, water quality narrative standards applicable to all surface waters (NAC 445A.121) apply.

303 (d) Listing Status
According to Nevada's 2020 - 2022 Water Quality Integrated Report (WQIR), the following beneficial uses for the Flamingo Wash are not supported:
• The Aquatic Life beneficial use is impaired by 96-hour Iron, 1-hour Selenium, and 96-hour Selenium.
• The Irrigation beneficial use is impaired by Boron.

According to Nevada's 2020 - 2022 WQIR, the following beneficial uses for the Las Vegas Wash above Treatment Plants are not supported:
• The Aquatic Life beneficial use is impaired by 96-hour Iron, 1-hour Selenium, 96-hour Selenium, and Total Suspended Solids.
• The Irrigation beneficial use is impaired by Boron.
• The Recreation Not Involving Contact with the Water beneficial use is impaired by *Escherichia Coli. (E.*

coli).
• The Watering of Livestock beneficial use is impaired by TDS.

TMDL
Per section 303(d)(1)(C) of the Clean Water Act (CWA), states are required to develop Total Maximum Daily Loads (TMDLs) for parameters that do not meet water quality standards for a water body. TMDLs are implemented during the permitting process by limiting the load of that parameter that may be discharged to the receiving water. According to the Las Vegas Wash TMDL Evaluation dated October 2003, the current total phosphorus and total ammonia (as N) TMDLs on the Las Vegas Wash were established in 1989, and became fully effective in 1994 and 1995, respectively. The TMDLs apply to the downstream segment: Las Vegas Wash at Lake Mead (NAC 445A.2158).

Waste Load Allocation
The Las Vegas Wash at Lake Mead (NAC 445A.2158) has established TMDLs for total ammonia (as N) and total phosphorus. Per the Bureau of Water Quality Planning (BWQP) memo dated May 16, 2024, "For NPDES permitting purposes, total phosphorus discharge loads associated with groundwater dewatering activities in the Las Vegas area can be assumed to be part of the base phosphorus load recognized in the 1989 Las Vegas Wash Total Phosphorous TMDL Load Allocation." Thus, Total Phosphorus, both concentration and mass, will be monitored and reported. Using the same rationale, total ammonia (as N), both concentration and mass, will be monitored and reported. A quarterly sampling frequency is deemed appropriate to monitor the load to the Las Vegas Wash.

Compliance History
The facility has been in compliance during the period reviewed of January 2020 through December 2025.

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

Discharge Limitations Table for Sample Location 01A (Influent To Carbon System-Internal Outfall) To Be Reported Quarterly

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Tetrachloroethylene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Quarterly	DISCRT

Discharge Limitations Table for Sample Location 01A (Influent To Carbon System-Internal Outfall) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
1,1-Dichloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Annual	DISCRT
1,1-Dichloroethylene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Annual	DISCRT
1,1,1-Trichloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Annual	DISCRT
1,1,2-Trichloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Annual	DISCRT
1,1,2,2-Tetrachloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Annual	DISCRT
1,2-Dichlorobenzene (O-Dichlorobenzene)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Annual	DISCRT
1,2-Dichloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Annual	DISCRT
1,2-Dichloropropane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Annual	DISCRT
1,3-Dichlorobenzene (M-Dichlorobenzene)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Annual	DISCRT
1,4-Dichlorobenzene (P-Dichlorobenzene)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Annual	DISCRT
2-Chloroethyl vinyl ether, (mixed)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Annual	DISCRT
			M&R				

Discharge Limitations Table for Sample Location 01A (Influent To Carbon System-Internal Outfall) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
cis-1,3-Dichloropropene	Daily Maximum		Micrograms per Liter (ug/L)	Intake	01A	Annual	DISCRT
trans-1,2-Dichloroethylene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Annual	DISCRT
trans-1,3-Dichloropropene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Annual	DISCRT
Benzene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Annual	DISCRT
Bromoform	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Annual	DISCRT
Carbon Tetrachloride (Tetrachloromethane (Carbon Tetrachloride))	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Annual	DISCRT
Chlorobenzene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Annual	DISCRT
Chloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Annual	DISCRT
Chloroform	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Annual	DISCRT
Dibromochloromethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Annual	DISCRT
Dichlorobromomethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Annual	DISCRT
			M&R				

Discharge Limitations Table for Sample Location 01A (Influent To Carbon System-Internal Outfall) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Ethylbenzene	Daily Maximum		Micrograms per Liter (ug/L)	Intake	01A	Annual	DISCRT
Hydrocarbons, total petroleum	Daily Maximum		M&R Milligrams per Liter (mg/L)	Intake	01A	Annual	DISCRT
Methyl bromide (Bromomethane)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Annual	DISCRT
Methyl chloride (Chloromethane)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Annual	DISCRT
Methyl tert-butyl ether	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Annual	DISCRT
Methylene chloride	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Annual	DISCRT
Toluene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Annual	DISCRT
Trichloroethylene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Annual	DISCRT
Trichlorofluoromethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Annual	DISCRT
Vinyl Chloride (Chloroethylene (Vinyl))	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Annual	DISCRT
Xylene (mix of m+o+p)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Annual	DISCRT

Discharge Limitations Table for Sample Location 01B (Midfluent To Final Carbon Canister-Internal Outfall) To Be Reported Quarterly

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Tetrachloroethylene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Quarterly	DISCRT

Discharge Limitations Table for Sample Location 01B (Midfluent To Final Carbon Canister-Internal Outfall) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
1,1-Dichloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Annual	DISCRT
1,1-Dichloroethylene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Annual	DISCRT
1,1,1-Trichloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Annual	DISCRT
1,1,2-Trichloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Annual	DISCRT
1,1,2,2-Tetrachloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Annual	DISCRT
1,2-Dichlorobenzene (O-Dichlorobenzene)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Annual	DISCRT
1,2-Dichloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Annual	DISCRT
1,2-Dichloropropane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Annual	DISCRT
1,3-Dichlorobenzene (M-Dichlorobenzene)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Annual	DISCRT
1,4-Dichlorobenzene (P-Dichlorobenzene)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Annual	DISCRT
2-Chloroethyl vinyl ether, (mixed)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Annual	DISCRT

Discharge Limitations Table for Sample Location 01B (Midfluent To Final Carbon Canister-Internal Outfall) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
cis-1,3-Dichloropropene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Annual	DISCRT
trans-1,2-Dichloroethylene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Annual	DISCRT
trans-1,3-Dichloropropene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Annual	DISCRT
Benzene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Annual	DISCRT
Bromoform	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Annual	DISCRT
Carbon Tetrachloride (Tetrachloromethane (Carbon Tetrachloride))	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Annual	DISCRT
Chlorobenzene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Annual	DISCRT
Chloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Annual	DISCRT
Chloroform	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Annual	DISCRT
Dibromochloromethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Annual	DISCRT
Dichlorobromomethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Annual	DISCRT

Discharge Limitations Table for Sample Location 01B (Midfluent To Final Carbon Canister-Internal Outfall) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Ethylbenzene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Annual	DISCRT
Hydrocarbons, total petroleum	Daily Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	01B	Annual	DISCRT
Methyl bromide (Bromomethane)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Annual	DISCRT
Methyl chloride (Chloromethane)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Annual	DISCRT
Methyl tert-butyl ether	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Annual	DISCRT
Methylene chloride	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Annual	DISCRT
Toluene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Annual	DISCRT
Trichloroethylene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Annual	DISCRT
Trichlorofluoromethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Annual	DISCRT
Vinyl Chloride (Chloroethylene (Vinyl))	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Annual	DISCRT
Xylene (mix of m+o+p)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Annual	DISCRT

Discharge Limitations Table for Sample Location 01C (Dewatering System Discharge-Effluent From Carbon System-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	<= 249000 Gallons per Day (gal/d)		Effluent Gross	01C	Continuous	METER

Discharge Limitations Table for Sample Location 01C (Dewatering System Discharge-Effluent From Carbon System-External Outfall) To Be Reported Quarterly

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Boron, total recoverable	Daily Maximum		<= 750 Micrograms per Liter (ug/L)	Effluent Gross	01C	Quarterly	DISCRT
Copper, dissolved (as Cu)	Daily Maximum		<= 29 Micrograms per Liter (ug/L)	Effluent Gross	01C	Quarterly	DISCRT
Iron, total recoverable	Daily Maximum		<= 1000 Micrograms per Liter (ug/L)	Effluent Gross	01C	Quarterly	DISCRT
Manganese, total recoverable	Daily Maximum		<= 200 Micrograms per Liter (ug/L)	Effluent Gross	01C	Quarterly	DISCRT
Nitrogen, ammonia total (as N)	Daily Maximum	M&R Pounds per Day (lb/d)[1]	M&R Milligrams per Liter (mg/L)	Effluent Gross	01C	Quarterly	DISCRT
Nitrogen, inorganic total	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01C	Quarterly	DISCRT
Nitrogen, nitrate total (as N)	Daily Maximum		<= 90 Milligrams per Liter (mg/L)	Effluent Gross	01C	Quarterly	DISCRT
Nitrogen, nitrite total (as N)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01C	Quarterly	DISCRT
pH, maximum	Daily Maximum		<= 9.0 Standard Units (SU)	Effluent Gross	01C	Quarterly	DISCRT
pH, minimum	Daily Minimum		>= 6.5 Standard Units (SU)	Effluent Gross	01C	Quarterly	DISCRT
Phosphorus, total (as P)	Daily Maximum	M&R Pounds per Day (lb/d)[1]	M&R Milligrams per Liter (mg/L)	Effluent Gross	01C	Quarterly	DISCRT
Selenium, dissolved [as Se]	Daily Maximum		<= 6.3 Micrograms per Liter	Effluent Gross	01C	Quarterly	DISCRT

Discharge Limitations Table for Sample Location 01C (Dewatering System Discharge-Effluent From Carbon System-External Outfall) To Be Reported Quarterly

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
			(ug/L)				
Solids, total dissolved	Daily Maximum		<= 1900 Milligrams per Liter (mg/L)	Effluent Gross	01C	Quarterly	DISCRT
Tetrachloroethylene	Daily Maximum		<= 5 Micrograms per Liter (ug/L)	Effluent Gross	01C	Quarterly	DISCRT
Trihalomethane, tot.	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Quarterly	DISCRT
Zinc, dissolved (as Zn)	Daily Maximum		<= 388 Micrograms per Liter (ug/L)	Effluent Gross	01C	Quarterly	DISCRT

Notes (Discharge Limitations Table):

1. Loading: lbs/day = Flow Rate (Gal/d) x Concentration (mg/L) x 8.34.

Discharge Limitations Table for Sample Location 01C (Dewatering System Discharge-Effluent From Carbon System-External Outfall) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Antimony, total recoverable	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
Arsenic, dissolved (as As)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
Barium, total recoverable	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
Beryllium, total recoverable (as Be)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
Cadmium, dissolved (as Cd)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
Chromium, total recoverable	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
Chromium, Hexavalent [As CR] (Chromium (VI))[1]	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
Chromium, Trivalent [As CR] (Chromium (III))[1]	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
Cyanide, weak acid, dissociable	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
Fluoride, total (as F)[2]	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
Lead, dissolved (as Pb)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
			M&R				

Discharge Limitations Table for Sample Location 01C (Dewatering System Discharge-Effluent From Carbon System-External Outfall) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Mercury, dissolved (as Hg)	Daily Maximum		Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
Molybdenum, total recoverable	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
Nickel, total (as Ni)[1]	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01C	Annual	DISCRT
Silver, dissolved (as Ag)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
Sulfide, total (as S)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
Thallium, total (as Tl)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01C	Annual	DISCRT
Acrolein	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
Aldrin	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
.alpha.-Endosulfan	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
.beta.-Endosulfan	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
Chlordane (tech mix. and metabolites)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
			M&R				

Discharge Limitations Table for Sample Location 01C (Dewatering System Discharge-Effluent From Carbon System-External Outfall) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Chlorpyrifos	Daily Maximum		Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
4,4-DDT	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Quarterly	DISCRT
Demeton	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
Diazinon	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
Dieldrin	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
Endrin	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
Azinphos-Methyl (Guthion)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
Heptachlor	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
Heptachlor epoxide	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
Lindane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
Malathion	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
			M&R				

Discharge Limitations Table for Sample Location 01C (Dewatering System Discharge-Effluent From Carbon System-External Outfall) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Methoxychlor	Daily Maximum		Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
Mirex	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
Nonylphenol	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
Polychlorinated biphenyls (PCBs)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
Pentachlorophenol	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
Parathion	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
Toxaphene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
Tributyltin	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
1,1-Dichloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
1,1-Dichloroethylene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
1,1,1-Trichloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
			M&R				

Discharge Limitations Table for Sample Location 01C (Dewatering System Discharge-Effluent From Carbon System-External Outfall) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
1,1,2-Trichloroethane	Daily Maximum		Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
1,1,2,2-Tetrachloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
1,2-Dichlorobenzene (O-Dichlorobenzene)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
1,2-Dichloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
1,2-Dichloropropane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
1,3-Dichlorobenzene (M-Dichlorobenzene)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
1,4-Dichlorobenzene (P-Dichlorobenzene)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
2-Chloroethyl vinyl ether, (mixed)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
cis-1,3-Dichloropropene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
trans-1,2-Dichloroethylene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
trans-1,3-Dichloropropene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
			<= 5				

Discharge Limitations Table for Sample Location 01C (Dewatering System Discharge-Effluent From Carbon System-External Outfall) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Benzene	Daily Maximum		Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
Bromoform	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
Chloroform	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
Chloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
Chlorobenzene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
Carbon Tetrachloride (Tetrachloromethane (Carbon Tetrachloride))	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
Dibromochloromethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
Dichlorobromomethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
Ethylbenzene	Daily Maximum		<= 100 Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
Hydrocarbons, total petroleum[3]	Daily Maximum		<= 1.0 Milligrams per Liter (mg/L)	Effluent Gross	01C	Annual	DISCRT
Methyl bromide (Bromomethane)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
			M&R				

Discharge Limitations Table for Sample Location 01C (Dewatering System Discharge-Effluent From Carbon System-External Outfall) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Methyl chloride (Chloromethane)	Daily Maximum		Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
Methyl tert-butyl ether	Daily Maximum		<= 20 Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
Methylene chloride	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
Toluene	Daily Maximum		<= 100 Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
Trichloroethylene	Daily Maximum		<= 5 Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
Trichlorofluoromethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
Vinyl Chloride (Chloroethylene (Vinyl))	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT
Xylene (mix of m+o+p)	Daily Maximum		<= 200 Micrograms per Liter (ug/L)	Effluent Gross	01C	Annual	DISCRT

Notes (Discharge Limitations Table):

1. Analysis shall be for the dissolved fraction.
2. Total recoverable.
3. Sampling shall be done of the full range of total petroleum hydrocarbons, being C6 through C40.

Summary of Changes From Previous Permit

Under Outfall 01A (Influent to Carbon System), To Be Reported Quarterly, the following parameters were either added or changed:

CHANGED – Volatile Organic Compounds (VOCs) were changed from a “Quarterly” reporting requirement to an “Annual” reporting requirement due to the VOCs being non-detect except for Chloroform and Tetrachloroethylene, with Tetrachloroethylene remaining under Quarterly reporting.

ADDED – Tetrachloroethylene, with a “Daily Maximum” Base, a “M&R Micrograms per Liter (ug/L)”

Concentration, an “Internal Monitoring Point” Monitoring Location, a “01A” Sample Location, a “Quarterly” Measurement Frequency, and a “Discrt” Sample Type.

ADDED – Outfall 01A (Influent to Carbon System-Internal Outfall), To Be Reported Annually, along with the following parameters:

ADDED – Hydrocarbons, total petroleum (TPH), with a “Daily Maximum” Base, a “M&R Micrograms per Liter (ug/L)” Concentration, an “Intake” Monitoring Location, a “01A” Sample Location, a “Annual” Measurement Frequency, and a “Discrt” Sample Type.

ADDED – Methyl tert butyl ether (MTBE), with a “Daily Maximum” Base, a “M&R Micrograms per Liter (ug/L)” Concentration, an “Intake” Monitoring Location, a “01A” Sample Location, a “Annual” Measurement Frequency, and a “Discrt” Sample Type.

ADDED – VOCs (as previously listed under Quarterly reporting for this outfall (01A) under the previous permit), with a “Daily Maximum” Base, a “M&R Micrograms per Liter (ug/L)” Concentration, an “Intake” Monitoring Location, a “01A” Sample Location, a “Annual” Measurement Frequency, and a “Discrt” Sample Type.

ADDED – Xylene (mix of m+o+p), with a “Daily Maximum” Base, a “M&R Micrograms per Liter (ug/L)” Concentration, an “Intake” Monitoring Location, a “01A” Sample Location, a “Annual” Measurement Frequency, and a “Discrt” Sample Type.

CHANGED - Outfall 01B's outfall description from "Influent to Final Carbon Canister-Internal Outfall" to "Midfluent to Final Carbon Canister-Internal Outfall".

Under Outfall 01B (Midfluent to Final Carbon Canister-Internal Outfall), To Be Reported Quarterly, the following parameters were either added or changed:

CHANGED – Volatile Organic Compounds (VOCs) were changed from a “Quarterly” reporting requirement to an “Annual” reporting requirement due to the VOCs being non-detect except for Chloroform and Tetrachloroethylene, with Tetrachloroethylene remaining under Quarterly reporting.

ADDED – Tetrachloroethylene, with a “Daily Maximum” Base, a “M&R Micrograms per Liter (ug/L)” Concentration, an “Internal Monitoring Point” Monitoring Location, a “01B” Sample Location, a “Quarterly” Measurement Frequency, and a “Discrt” Sample Type.

ADDED – Outfall 01B (Midfluent to Final Carbon Canister-Internal Outfall), To Be Reported Annually, along with the following parameters:

ADDED – Hydrocarbons, total petroleum (TPH_, with a “Daily Maximum” Base, a “M&R Micrograms per Liter (ug/L)” Concentration, an “Internal Monitoring Point” Monitoring Location, a “01B” Sample Location, a “Annual” Measurement Frequency, and a “Discrt” Sample Type.

ADDED – Methyl tert butyl ether (MTBE), with a “Daily Maximum” Base, a “M&R Micrograms per Liter (ug/L)” Concentration, an “Internal Monitoring Point” Monitoring Location, a “01B” Sample Location, a “Annual” Measurement Frequency, and a “Discrt” Sample Type.

ADDED – VOCs (as previously listed under Quarterly reporting for this outfall (01B) under the previous permit), with a “Daily Maximum” Base, a “M&R Micrograms per Liter (ug/L)” Concentration, an “Internal Monitoring Point” Monitoring Location, a “01B” Sample Location, a “Annual” Measurement Frequency, and a “Discrt” Sample Type.

ADDED – Xylene (mix of m+o+p), with a “Daily Maximum” Base, a “M&R Micrograms per Liter (ug/L)” Concentration, an “Internal Monitoring Point” Monitoring Location, a “01B” Sample Location, a “Annual” Measurement Frequency, and a “Discrt” Sample Type.

Under Outfall 01C (Dewatering System Discharge-Effluent from Carbon System-External Outfall), To Be Reported Quarterly, the following parameters were either added or changed:

CHANGED – Volatile Organic Compounds (VOCs) were changed from a “Quarterly” reporting requirement to an “Annual” reporting requirement due to the VOCs being non-detect except for Chloroform and Tetrachloroethylene, with Tetrachloroethylene remaining under Quarterly reporting.

ADDED – Boron, total recoverable, with a “Daily Maximum” Base, a “750 Micrograms per Liter (ug/L)” Concentration, an “Effluent Gross” Monitoring Location, a “01C” Sample Location, a “Quarterly” Measurement Frequency, and a “Discrt” Sample Type.

ADDED – Copper, dissolved (as Cu), with a “Daily Maximum” Base, a “29 Micrograms per Liter (ug/L)” Concentration, an “Effluent Gross” Monitoring Location, a “01C” Sample Location, a “Quarterly” Measurement Frequency, and a “Discrt” Sample Type.

ADDED – Iron, total recoverable, with a “Daily Maximum” Base, a “1,000 Micrograms per Liter (ug/L)” Concentration, an “Effluent Gross” Monitoring Location, a “01C” Sample Location, a “Quarterly” Measurement Frequency, and a “Discrt” Sample Type.

ADDED – Manganese, total recoverable, with a “Daily Maximum” Base, a “200 Micrograms per Liter (ug/L)” Concentration, an “Effluent Gross” Monitoring Location, a “01C” Sample Location, a “Quarterly” Measurement Frequency, and a “Discrt” Sample Type.

ADDED – Nitrogen, ammonia total (as N), with a “Daily Maximum” Base, an “M&R Pounds per Day (lb/d)” Quantity, an “M&R Milligrams per Liter (mg/L)” Concentration, an “Effluent Gross” Monitoring Location, a “01C” Sample Location, a “Quarterly” Measurement Frequency, and a “Discrt” Sample Type.

ADDED – Nitrogen, inorganic total, with a “Daily Maximum” Base, a “M&R Milligrams per Liter (mg/L)” Concentration, an “Effluent Gross” Monitoring Location, a “01C” Sample Location, a “Quarterly” Measurement Frequency, and a “Discrt” Sample Type.

ADDED – Nitrogen, nitrate total (as N), with a “Daily Maximum” Base, a “90 Milligrams per Liter (mg/L)” Concentration, an “Effluent Gross” Monitoring Location, a “01C” Sample Location, a “Quarterly” Measurement Frequency, and a “Discrt” Sample Type.

ADDED – Nitrogen, nitrite total (as N), with a “Daily Maximum” Base, a “M&R Milligrams per Liter (mg/L)” Concentration, an “Effluent Gross” Monitoring Location, a “01C” Sample Location, a “Quarterly” Measurement Frequency, and a “Discrt” Sample Type.

ADDED – Phosphorus, total (as P), with a “Daily Maximum” Base, an “M&R Pounds per Day (lb/d)” Quantity, an “M&R Milligrams per Liter (mg/L)” Concentration, an “Effluent Gross” Monitoring Location, a “01C” Sample Location, a “Quarterly” Measurement Frequency, and a “Discrt” Sample Type.

ADDED – Selenium, dissolved (as Se), with a “Daily Maximum” Base, a “6.3 Micrograms per Liter (ug/L)” Concentration, an “Effluent Gross” Monitoring Location, a “01C” Sample Location, a “Quarterly” Measurement Frequency, and a “Discrt” Sample Type.

ADDED – Solids, total dissolved, with a “Daily Maximum” Base, a “1,900 Milligrams per Liter (mg/L)” Concentration, an “Effluent Gross” Monitoring Location, a “01C” Sample Location, a “Quarterly” Measurement Frequency, and a “Discrt” Sample Type.

ADDED – Trihalomethanes, tot., with a “Daily Maximum” Base, a “M&R Micrograms per Liter (ug/L)” Concentration, an “Effluent Gross” Monitoring Location, a “01C” Sample Location, a “Quarterly” Measurement Frequency, and a “Discrt” Sample Type.

ADDED – Zinc, dissolved (as Zn), with a “Daily Maximum” Base, a “388 Micrograms per Liter (ug/L)” Concentration, an “Effluent Gross” Monitoring Location, a “01C” Sample Location, a “Quarterly” Measurement Frequency, and a “Discrt” Sample Type.

ADDED – Outfall 01C (Dewatering System Discharge-Effluent from Carbon System), To Be Reported Annually, along with the following adding or deleting the parameters:

ADDED – VOCs (as previously listed under Quarterly reporting for this outfall (01C) under the previous permit), with a “Daily Maximum” Base, a “M&R Micrograms per Liter (ug/L)” Concentration, an “Effluent Gross” Monitoring Location, a “01C” Sample Location, a “Annual” Measurement Frequency, and a “Discrt” Sample Type.

ADDED – Xylene (mix of m+o+p), with a “Daily Maximum” Base, a “200 Micrograms per Liter (ug/L)” Concentration, an “Effluent Gross” Monitoring Location, a “01C” Sample Location, a “Annual” Measurement Frequency, and a “Discrt” Sample Type.

DELETED – Profile 1 parameters, with a “Daily Maximum” Base, that were not covered by the Toxic Materials list, as prescribed under NAC 445A.1236 (WQSs applicable to surface waters of the State), including Calcium, Hardness, Magnesium, Nitrate + Nitrite (as N), and Nitrogen.

DELETED – Nitrogen, Kjeldahl, total (as N) with a “Daily Maximum” Base.

DELETED – Xylene, with a “Daily Maximum” Base.

DELETED – Footnote 2. Total xylenes.

CHANGED – Footnote 1 to Footnote 3 (see new footnotes added below).
Now 3. C6 - C40.

ADDED Footnotes 1 and 2.

1. Analysis shall be for the dissolved fraction.

2. Total recoverable.

Technology Based Effluent Limitations
Technology based effluent limitations are not applicable to this permit.

Water Quality Based Effluent Limitations
The proposed permit requires monitoring and reporting of constituents that are subject of WQSs and may be present in the discharge.

The following water quality based effluent limit (WQBEL) requirements, based on NAC 445A.2156, are included in the proposed permit to ensure that the discharge does not cause WQS violations. In addition, the proposed permit requires monitoring and reporting of constituents that are subject of WQSs and may be present in the discharge. Per NAC 445A.2156, sampling is required for temperature, dissolved oxygen (D.O.), total suspended solids (TSS), fecal coliform and *E. coli*.

The discharge from the facility will travel many miles through the Clark County storm drain system, into the Flamingo Wash, before finally reaching the Las Vegas Wash; therefore, sampling the discharge for temperature and D.O. is irrelevant in this instance. TSS is also not required to be sampled as groundwater, typically, has low suspended solids. Since the discharge is not associated with treated wastewater, sampling of fecal coliform and *E. coli* are not required.

The proposed permit retains the daily maximum limit of M&R mg/L for Total Inorganic Nitrogen (TIN) as prescribed at NAC 445A.2156 in accordance with the requirement to maintain existing higher existing quality (RMHQ) standard. Quarterly reporting will be required for this parameter.

The proposed permit retains the daily maximum limit of M&R mg/L for Nitrate as N as prescribed at NAC

445A.2156, for water quality criteria to protect the aquatic life beneficial use. Quarterly reporting will be required for this parameter.

The proposed permit establishes the daily maximum limit of 5 mg/L for Nitrite as N as prescribed at NAC 445A.2156, for water quality criteria to protect the aquatic life beneficial use. Quarterly reporting will be required for this parameter.

The proposed permit establishes a daily maximum limit of 9.0 S.U. and a daily minimum limit of 6.5 S.U. for pH as prescribed at NAC 445A.2156 to protect the aquatic life designated beneficial use. Quarterly reporting will be required for this parameter.

The proposed permit establishes the requirement to sample for TDS based on the water quality standards stated under NAC 445A.2156, in accordance with the requirement to maintain the RMHQ standard, along with the RPA demonstrating reasonable potential for TDS to cause or contribute to an instream excursion of the WQS. Thus, a limit of 1,900 mg/L for TDS was established along with a quarterly reporting requirement.

Reasonable Potential Analysis (RPA)
Section 301(b)(1)(c) of the CWA requires effluent limitations necessary to meet WQSs, and Title 40 of the Code of Federal Regulation (CFR) section 122.44(d) requires permits to include conditions that are necessary to achieve WQSs established under section 303 of the CWA, including state narrative criteria for water quality. Federal regulations at 40 CFR 122.44(d)(1)(i) state, “Limitations must control all pollutants or pollutant parameters (either conventional, nonconventional, or toxic pollutants) which the Director determines are or may be discharged at a level that will cause, have the reasonable potential to cause, or contribute to an excursion above any State water quality standard, including State narrative criteria for water quality.” The process to determine whether a WQBEL is required as described in 40 CFR 122.44(d)(1)(i) is referred to as a reasonable potential analysis, or RPA. Furthermore, NAC 445A.243 requires the Division to consider the establishment of effluent limitations necessary to meet WQSs.

For conducting the RPA, the Division used a mass balanced approach to determine the expected critical downstream receiving water concentration using statistics recommended in the United States Environmental Protection Agency’s Technical Support Document (TSD) for Water Quality-Based Toxic Control for statistically calculating the projected maximum effluent concentration (i.e., Table 31 of the TSD using the 99 percent probability basis and 99 percent confidence interval). For purposes of the RPA, the critical receiving water flow was assumed to be zero (i.e., no dilution); therefore, the critical effluent pollutant concentrations were compared with the most restrictive water quality criteria under NAC 445A.1236 and NAC 445A.2156 to determine if the discharge has reasonable potential to cause, or contribute to, an excursion above a State WQS.

The RPA was based on data collected from January 2020 to December 2025 which includes effluent data submitted in DMRs and the Permittee’s monitoring laboratory reports, shows reasonable potential to cause, or contribute to, instream excursions above the applicable water quality criteria for Boron, Copper, Iron, Manganese, Selenium, TDS and Zinc.

Proposed Water Quality Based Effluent Limits (monthly/weekly/daily)
The proposed permit establishes annual sampling of toxic materials as these constituents are listed in NAC 445A.1236 with the parameters replacing the Profile 1 list previously used in the prior permit. The Division does not expect most of these constituents to be present in the discharge; therefore, annual sampling is deemed sufficient for obtaining initial water quality data for toxic materials. If, during the next renewal review process, the water quality data shows a reasonable potential (via a Reasonable Potential Analysis) for any constituent, the Division will retain that constituent with a limit and may increase the sampling frequency for that constituent during the next permit renewal cycle.

The proposed permit establishes a daily maximum limit of 750 ug/L for Boron, per NAC 445A.1236, based on it being included in the 303(d) list for the Las Vegas Wash, and the RPA proved reasonable potential for this parameter to cause or contribute to an instream excursion of the WQS. Quarterly reporting will be

required for this parameter.

The proposed permit establishes a daily maximum limit of 29 ug/L for Copper in accordance with the beneficial use for chronic aquatic life included in the WQSs at NAC 445A.1236 and the RPA proved reasonable potential for this parameter to cause or contribute to an instream excursion of the WQS. Quarterly reporting will be required for this parameter.

The proposed permit establishes a daily maximum limit of 1,000 ug/L for Iron, as prescribed by NAC 445A.1236 and based on it being included in the 303(d) list. The RPA proved reasonable potential for this parameter to cause or contribute to an instream excursion of the WQS. Quarterly reporting will be required for this parameter.

The proposed permit establishes a daily maximum limit of 200 ug/L for Manganese, as prescribed by NAC 445A.1236 and based on the RPA proving reasonable potential for this parameter to cause or contribute to an instream excursion of the WQS. Quarterly reporting will be required for this parameter.

The proposed permit establishes a daily maximum limit of 6.3 ug/L for Selenium, due to the 303(d) listing of this parameter being a pollutant of concern for the Las Vegas Wash and the based on the RPA proving reasonable potential for this parameter to cause or contribute to an instream excursion of the WQS. Quarterly reporting will be required for this parameter.

The proposed permit establishes the requirement to monitor and report (M&R) ug/L for Trihalomethanes based on continued small concentrations of Chloroform (a part of the Trihalomethanes) having been reported.

The proposed permit establishes a daily maximum limit of 388 ug/L for Zinc, as prescribed by NAC 445A.1236, and based on the RPA proving reasonable potential for this parameter to cause or contribute to an instream excursion of the WQS. Quarterly reporting will be required for this parameter.

The permit retains the requirement to monitor and report VOCs to satisfy antibacksliding requirements, even if the prior results have been non-detect during the past 5 years. Since VOCs have been non-detect since, at least, 2020, the Permittee is only required to sample for VOCs annually. There are no numerical limits for VOCs as these constituents either have a maximum contaminant level (MCL), or are regulated through NAC 445A.1236, to protect the municipal or domestic supply beneficial use which does not apply to this section of the Las Vegas Wash; therefore, VOCs will be monitored and reported.

Mass-Based Limits (If Applicable)
The proposed permit establishes a daily maximum of M&R pounds per day (lb/day) quantity for Ammonia as N, based on the TMDLs established for the Las Vegas Wash, with an quarterly reporting requirement.

The proposed permit establishes a daily maximum of M&R lb/day quantity for Phosphorus, based on the TMDL established for the Las Vegas Wash, with a quarterly reporting requirement.

The calculated reported concentrations for the parameters listed above, being Ammonia as N and Phosphorus, are based on the following formula:

Loading: lbs/day = Flow Rate (Gal/d) x Concentration (mg/L) x 8.34.

Basis for Effluent Limitations
The permit retains the requirement to monitor and report VOCs to satisfy anti-backsliding requirements; however, as the VOCs were reported as non-detect during the past five years, sampling has been decreased from a quarterly reporting requirement to an annual reporting requirement.

The proposed permit retains the requirement to sample for PCE on a quarterly basis, with an established limit of 5 micrograms per liter (ug/L). PCE is a solvent often used for dry cleaning and as a degreaser. Due

to the known active Bureau of Corrective Actions (BCA) sites that had a release of PCE, within a one-mile radius of the Stirling site, and the applied remediation efforts ongoing, continued monitoring is required.

The proposed permit retains the requirement to sample for Trihalomethanes (THMs) on a quarterly basis, with an established limit of M&R micrograms per liter (ug/L). Trihalomethanes (THMs) are disinfection byproducts formed when chlorine or bromine reacts with organic matter in water. The four primary THMs—chloroform, bromodichloromethane, dibromochloromethane, and bromoform—are regulated due to potential links to cancer, liver, and kidney damage. Long-term exposure is associated with bladder cancer and reproductive issues, with risks arising from drinking, inhaling, or dermal absorption. Due to the known active Bureau of Corrective Actions (BCA) sites that had a release of THMs, within a one-mile radius of the Stirling site, and the applied remediation efforts ongoing, continued monitoring is required.

Anti-backsliding
Sections 303(d) and 402(o) of the CWA and federal regulations of 40 CFR 122.44(i) prohibit backsliding and require effluent limitations in a reissued permit to be as stringent as those in the previous permit. VOCs were changed to an annual reporting requirement due to the reported concentrations being below detectable levels during the past five years.

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 CFR section 131.12. The objective of the Division's antidegradation regulation is to prevent degradation of Nevada's surface water and maintain the unique attributes and special characteristics and water quality associated with high-quality waters. This objective is achieved through the implementation of procedures to ensure that water is protected from regulated activities that have the potential to degrade the water quality.

The regulation uses four (4) tiers of antidegradation protection. Tier 1 protects water quality for beneficial uses of the water on a parameter-by-parameter basis. Tier 2 protects high-quality waters where data show the water quality is better than levels needed to protect beneficial uses (on a parameter-by-parameter basis). Tier 2.5 and Tier 3 protect water quality and the special characteristics of waterbodies designated with the beneficial uses of "extraordinary, ecological, aesthetic or recreation value" (NAC 445A.122). The Division will conduct an antidegradation review only when a permit application is submitted for a new or expanding point source discharge to a surface water or for a new or altered zone of mixing.

Since the proposed renewal of this permit does not include a new, or expanding, point source discharge; or, a new or altered zone of mixing, the antidegradation review is not required.

Special Conditions
See the Special Approvals/Conditions Table below:

SA – Special Approvals / Conditions Table

Item #	Description
1	Breakthrough of Carbon Canisters - spent carbon shall be replaced when breakthrough has been detected. Fresh carbon shall be placed in the final canister and the other canisters shall be rotated so that the oldest carbon is placed in the first position, and subsequent positions are occupied by decreasingly spent carbon.

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

Corrective Action Sites

There are thirteen (13) active BCA remediation sites within a one-mile radius of the Stirling site. Seven of the sites (8-000272, 8-000652, 8-000841, 8-001122, 8-001149, 8-001419, and 8-001512), are for the release of diesel gasoline, TPH, or other pollutants via an underground storage tank to the groundwater or soil. There is one Brownfield site (H-000557), and five leaking underground storage tanks (LUST) cases within the one-mile radial area of concern (H-000243, H-000708, H-001029, H001043, and H-001337).

BCA does not anticipate any impact(s) between the remediation sites and the permitted facility as long as the pollutants of concern are limited under the proposed permit and sampled properly.

Wellhead Protection Program

The outfalls are not located within a Wellhead Protection Area, which represents an approximate 10-year capture zone of a well, or within a Drinking Water Protection Area, which is defined by a 3,000-foot radius around a public water suppy (PWS) well.

Schedule of Compliance:

SOC – Schedule of Compliance Table

Item #	Description	Due Date
1	The Permittee shall submit two copies (one hard copy and one electronic copy) of an updated Operations and Maintenance (O&M) Manual for review and approval by the Division. The O&M Manual shall follow the Division's guidance document, WTS-2A Minimum Information Required for an Operation and Maintenance Manual for Pump-and-Treat Facilities and Dewatering Operations to be done by either a State of Nevada licensed professional engineer (P.E.) or a Nevada certified environmental manager (C.E.M.).	5/12/2027

Deliverable Schedule:

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

Item #	Description	Interval	First Scheduled Due Date
1	Quarterly DMRs	Quarterly	10/28/2026
2	Annual Reports	Annually	1/28/2027

Procedures for Public Comment:

The Notice of the Division's intent to issue a permit authorizing the facility to discharge to groundwater of the State of Nevada subject to the conditions contained within the permit, is being mailed to interested persons on our mailing list and will be posted on our website at https://ndep.nv.gov/posts. Anyone wishing to comment on the proposed permit can do so in writing until 5:00 P.M. **5/1/2026,** a period of 30 days following the date of the public notice. The comment period can be extended at the discretion of the Administrator.

A public hearing on the proposed determination can be requested by the applicant, any affected State, any affected interstate agency, the Regional Administrator of EPA Region IX or any interested agency, person or group of persons. The request must be filed within the comment period and must indicate the interest of the person filing the request and the reasons why a hearing is warranted. Any public hearing determined by the Administrator to be held must be conducted in the geographical area of the proposed discharge or any other area the Administrator determined to be appropriate. All public hearings must be conducted in accordance with NAC 445A.238.

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

Proposed Determination:

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

Prepared by: **Melissa Hanson**
Date: **5/8/2026**
Title: **Staff II Engineer**

Summary of Reasonable Potential Analysis

Parameter	Units	No. of Effluent Samples	Critical Effluent Concentration	Most Stringent Criterion	Criterion Basis	Does RP Exist?
Copper, Total Recoverable	ug/L	21	322.0	30	Chronic Aquatic Life	**Yes**
Iron, Total Recoverable	ug/L	21	21,418.5	1,000	Chronic Aquatic Life	**Yes**
Lead, Total Recoverable	ug/L	21	15.8	19	Chronic Aquatic Life	No
Manganese, Total Recoverable	ug/L	21	5,547.9	200	Irrigation	**Yes**
Selenium, Total Recoverable	ug/L	21	25.0	6.3	Chronic Aquatic Life	**Yes**
Zinc, Total Recoverable	ug/L	19	14,004.4	388	Acute Aquatic Life	**Yes**
Ammonia, Total (as N)	mg/L	21	0.34	0.342	Chronic Aquatic Life	No
Boron	ug/L	20	1,300.22	750	Irrigation	**Yes**
Nitrate, Total (as N)	mg/L	13	11.17	90	QC to Protect Beneficial Us	No
Nitrogen, total inorganic	mg/L	21	13.54	20	RMHQ	No
Total Dissolved Solids	mg/L	22	2,993.23	1900	RMHQ	**Yes**