NEVADA DIVISION OF
ENVIRONMENTAL
PROTECTION

A division of the
Nevada Department of Conservation & Natural Resources

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FACTSHEET
(pursuant to NAC 445A.236)

Permittee Name: LAKE LAS VEGAS MASTER ASSOCIATION

1600 LAKE LAS VEGAS PKWY
HENDERSON, NV 89011

Permit Number: NV0022691

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

Designation: MINOR NPDES

New/Existing: EXISTING

Location: LAKE LAS VEGAS DAM, CLARK
1600 LAKE LAS VEGAS PARKWAY, HENDERSON, NV 89011
LATITUDE: 36.1021, LONGITUDE: -114.926910
TOWNSHIP: T21S, RANGE: R63E, SECTION: S14

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Latitude	Longitude	Receiving Water
001	OUTFALL 001-LAKE DRAIN VALVE	External Outfall		36.119167	-114.911389	LAS VEGAS WASH

Permit History/Description of Proposed Action

The Permittee, Lake Las Vegas Master Association, has applied for the renewal of their National Pollutant Discharge Elimination System (NPDES) Permit NV0022691, for Lake Las Vegas Dam, located at 1600 Lake Las Vegas Parkway, in Henderson, within Clark County, Nevada. The Permittee proposes to continue to discharge to the Las Vegas Wash for water quality maintenance of the Lake Las Vegas Dam or during storm surge events.

This permit was first issued on November 8, 1996. The most recent permit was issued on August 1, 2014, and expired on July 31, 2019; the permit has been administratively continued since.

Facility Overview

Lake Las Vegas Dam (LLVD) is located between Lake Las Vegas Parkway and North Shore Road, which is accessed via Lake Mead Drive (State Route 564) in Henderson. Lake Las Vegas is a man-made reservoir with 2,600-acres of developable area around it incorporating several mixed uses within its boundary - including residential, resort, and commercial. The entire area is often referred to as the Lake Las Vegas Resort.

Lake Las Vegas (LLV) is a 320-acre man-made impoundment filled with dechlorinated water from Lake Mead, supplied by the City of Henderson. The lake is approximately two miles in length, one mile in width, with an average depth of 33 feet. The lake is permitted to hold 10,600 acre-feet (AF). Up to 7,000 AF/yr of

Lake Mead water, purchased from the City of Henderson, can be used to replenish LLV and irrigate the resort's landscaping and golf courses. In addition, LLV has 2,029 AF of certificated water rights that is sourced from the Las Vegas Wash (refer to Division of Water Resources Permit 58390, Certificate 14303), that can be utilized during wet years. The resort's sewer and water utilities are provided by the City of Henderson.

During dry weather, discharge normally occurs from a 30-inch diameter lake drain valve located at a monitoring point, identified by the Permittee as LLV-1, at a depth of 75 feet below the lake surface. Discharges to maintain water quality are permitted, from the period of November 1st through March 30th of each year, when the lake water column is not stratified and aerobic throughout (i.e., dissolved oxygen (D.O.) content is higher than 5.0 milligrams per liter (mg/L)). Discharges up to 2,500 AF/yr (815 million gallons per year) are allowed for water quality management purposes for LLV. When discharging, the lake drain valve is maintained in the 20% open position, which corresponds to a flow of 100 cubic feet per second (cfs). The lake discharge is routed through a concrete energy dissipation structure and then merges with the entire Las Vegas Wash flow underneath LLVD. During the period reviewed, from January 2020 through December 2025, there have been no releases of water from the lake for water quality management purposes or storm surge events.

The lake is formed by an earthen embankment dam, 4,800 feet in length and 150 feet high. Twin 84-inch diameter reinforced concrete pipelines divert the entire flow of the Las Vegas Wash under the lake, for a length of 9,450 feet. The bypass conduits discharge underneath the dam into the established Las Vegas Wash streambed, which conveys the water into Las Vegas Bay of Lake Mead. The bypass conduits are designed to carry up to a total of 1,200 cfs. The Las Vegas Wash flow, which flows into Lake Mead, is comprised of the Las Vegas Valley's tertiary-treated municipal wastewater effluent, stormwater, urban runoff and groundwater seepage.

The Division of Environmental Protection does not regulate the discharges from this lake for the purposes of dam safety or flood control. These discharges are regulated under a Division of Water Resources' dam permit. The NPDES permit requires that the cumulative flow volume from dam safety and flood control discharges be reported, as stormwater discharge, to the Division of Water Resources annually. Flood control discharges occur through the lake's three spillways, and the 30-inch lake drain valve.

The lake operations must also comply with dam safety requirements of the Division of Water Resources. Water that normally seeps through the embankment is collected in a toe drain to protect the structural integrity of the embankment fill material and is discharged to the Las Vegas Wash. The dam must also be protected from high stormwater runoff events in the Las Vegas Wash, which can exceed the carrying capacity of the bypass conduits. During peak storm events, surcharge from the bypass conduits enters the lake via an overflow structure. To maintain freeboard requirements during peak storm events, lake water levels are normally lowered through the lake drain valve and a spillway opening maintained with an air-adjusted rubber bladder.

The LLVD's Operation and Maintenance (O&M) Manual was last reviewed and approved on July 31, 2026. 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 July 31, 2036.

Outfall Summary
Outfall 001-This external outfall is for measuring and monitoring discharges from the LLV drain valve to the Las Vegas Wash.

Effluent Characterization
Nevada State Network Discharge Monitoring Report (NetDMR) data, as reported from the years January 2020 to December 2025, was reviewed as part of this permit renewal process. There were no reported discharges during that period.

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), D.O., *Escherichia coli (E. coli)*, Fecal Coliform, Nitrate (as N), Nitrite (as N), pH, Phosphorus, Temperature, Total Dissolved Solids (TDS), Total Inorganic Nitrogen (TIN), and Toxic Materials (as prescribed under Nevada Administrative Code (NAC) 445A.1236).

Receiving Water
The receiving water for lake discharges is the Las Vegas Wash at Lake Mead along with groundwater of the State via percolation through the lake bed.

Applicable Water Quality Standards/Beneficial Uses
The water quality standards (WQSs) for the nearest downstream control point, “Las Vegas Wash at Lake Mead” (NAC 445A.2158) apply. WQSs for this control point include the following beneficial uses: 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 segment 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
The Las Vegas Wash at Lake Mead does not have a 303(d) listing status. According to Nevada’s 2020 – 2022 Water Quality Integrated Report, the segment “Las Vegas Wash at Lake Mead” is classified as Category 1, indicating that all designated beneficial uses are fully supported. Therefore, the Las Vegas Wash at Lake Mead was not included on the 2020-2022 303(d) List of Impaired Waters.

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 waterbody. TMDLs are implemented during the permitting process by limiting the load of that parameter that may be discharged to the receiving water.

The Las Vegas Wash ultimately discharges into Lake Mead, with the Las Vegas Wash at the Lake Mead segment having established TMDLs for total ammonia and total phosphorus under NAC 445A.2158.

Waste Load Allocation
Although the TMDL did not include a WLA for LLV due to the TMDL predating the completion of the lake, the proposed permit establishes the requirement to monitor and report (M&R) total ammonia (as N) and total phosphorus. The proposed permit includes the requirement to report total ammonia (as N) and total phosphorus in pounds per day (lbs/day) and in milligrams per liter (mg/L) to assess the need for an individual WLA.

Compliance History
The LLVD was in compliance during the period reviewed.

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

Discharge Limitations Table for Sample Location 001 (Lake Drain Valve-External Outfall) To Be Reported Monthly

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Flow, total	Daily Maximum	M&R Million Gallons (Mgal)		Internal Monitoring Point	001	Continuous	DISCRT
Flow, total	30 Day Average	M&R Million Gallons (Mgal)		Internal Monitoring Point	001	Continuous	DISCRT
Coliform, fecal general[3]	30 Day Geometric Mean		<= 200 Most Probable Number per 100ml (MPN/100mL)[4]	Internal Monitoring Point	001	See Permit[1]	COMPOS [2]
Coliform, fecal general[3]	Daily Maximum		<= 400 Most Probable Number per 100ml (MPN/100mL)[4]	Internal Monitoring Point	001	See Permit[1]	COMPOS [2]
Nitrogen, ammonia total (as N)	Daily Maximum	M&R Pounds per Day (lb/d)[5]	M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	001	See Permit[1]	COMPOS [2]
Nitrogen, inorganic total	Daily Maximum		<= 17 Milligrams per Liter (mg/L)	Internal Monitoring Point	001	See Permit[1]	COMPOS [2]
Nitrogen, inorganic total	30 Day Average		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	001	See Permit[1]	COMPOS [2]
Nitrogen, nitrate total (as N)	Daily Maximum		<= 90 Milligrams per Liter (mg/L)	Internal Monitoring Point	001	See Permit[1]	COMPOS [2]
Nitrogen, nitrite total (as N)	Daily Maximum		<= 5 Milligrams per Liter (mg/L)	Internal Monitoring Point	001	See Permit[1]	COMPOS [2]
Oxygen, dissolved (DO)	Daily Minimum		>= 5 Milligrams per Liter (mg/L)	Internal Monitoring Point	001	See Permit[1]	COMPOS [2]
pH, maximum	Daily Maximum		<= 9.0 Standard Units (SU)	Internal Monitoring Point	001	See Permit[1]	DISCRT[2]
pH, minimum	Daily Minimum		>= 6.5 Standard Units (SU)	Internal Monitoring Point	001	See Permit[1]	DISCRT[2]

Discharge Limitations Table for Sample Location 001 (Lake Drain Valve-External Outfall) To Be Reported Monthly

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Phosphorus, total (as P)	Daily Maximum	M&R Pounds per Day (lb/d)[5]	M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	001	See Permit[1]	COMPOS
Solids, total dissolved	Daily Maximum		<= 2400 Milligrams per Liter (mg/L)	Internal Monitoring Point	001	See Permit[1]	COMPOS [2]
Solids, total dissolved	30 Day Average		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	001	See Permit[1]	COMPOS [2]
Solids, total suspended	Daily Maximum		<= 135 Milligrams per Liter (mg/L)	Internal Monitoring Point	001	See Permit[1]	COMPOS [2]
Solids, total suspended	30 Day Average		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	001	See Permit[1]	COMPOS [2]
Temperature, water deg. centigrade	Daily Maximum		<= 34 Degrees Centigrade (deg C)	Internal Monitoring Point	001	See Permit[1]	DISCRT[2]
E. coli	30 Day Geometric Mean		<= 630 Colony Forming Units per 100ml T (CFU/100mL)	Internal Monitoring Point	001	See Permit[1]	DISCRT[2]

Notes (Discharge Limitations Table):

1. Sampling for Water Quality Management discharges shall occur prior to discharge. For discharge events greater than one week in duration, samples shall be collected on a weekly basis.
2. A composite sample profile at Outfall 001 shall consist of (1) sample collected one meter below lake surface, (1) sample collected at mid-water column depth, and (1) sample collected one meter above lake bottom.
3. Any discharge from a point source into the Las Vegas Wash must not exceed a log mean of 200 per 100 milliliters based on a minimum of not less than five samples taken over a 30-day period, nor may more than 10 percent of the total samples taken during any 30-day period exceed 400 per 100 milliliters.
4. CFU/100mL or MPN/100mL.
5. Loading: lbs/day = Flow Rate (Mgal/d) x Concentration (mg/L) x 8.34.

Discharge Limitations Table for Sample Location 001 (Lake Drain Valve-External Outfall) To Be Reported Quarterly

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Flow, total	Season To Date Total[1]	<= 815 Million Gallons (Mgal)		Internal Monitoring Point	001	Continuous	DISCRT

Notes (Discharge Limitations Table):

1. Discharges up to 2500 acre-feet per year (815 million gallons per year) are allowed for maintaining water quality, during the period from November 1 through March 30.

Discharge Limitations Table for Sample Location 001 (Lake Drain Valve-External Outfall) To Be Reported Once During The Permit Term

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Arsenic, dissolved (as As)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Once Per Permit Term	COMPOS
Beryllium, total recoverable (as Be)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Once Per Permit Term	COMPOS
Boron, total recoverable	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Once Per Permit Term	COMPOS
Cadmium, dissolved (as Cd)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Once Per Permit Term	COMPOS
Chromium, total recoverable	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Once Per Permit Term	COMPOS
Chromium, Hexavalent [As CR] (Chromium (VI))[1]	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Once Per Permit Term	COMPOS
Chromium, Trivalent [As CR] (Chromium (III))[1]	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Once Per Permit Term	COMPOS
Copper, dissolved (as Cu)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Once Per Permit Term	COMPOS
Cyanide, free available	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Once Per Permit Term	COMPOS
Fluoride, total (as F) [2]	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Once Per Permit Term	COMPOS
Iron, total recoverable	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Once Per Permit Term	COMPOS
			M&R				

Discharge Limitations Table for Sample Location 001 (Lake Drain Valve-External Outfall) To Be Reported Once During The Permit Term

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Lead, dissolved (as Pb)	Daily Maximum		Micrograms per Liter (ug/L)	Effluent Gross	001	Once Per Permit Term	COMPOS
Manganese, total recoverable	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Once Per Permit Term	COMPOS
Mercury, dissolved (as Hg)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Once Per Permit Term	COMPOS
Molybdenum, total recoverable	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Once Per Permit Term	COMPOS
Nickel, total (as Ni)[1]	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Once Per Permit Term	COMPOS
Selenium, dissolved [as Se]	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Once Per Permit Term	COMPOS
Silver, dissolved (as Ag)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Once Per Permit Term	COMPOS
Sulfide, total (as S)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Once Per Permit Term	COMPOS
Zinc, dissolved (as Zn)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Once Per Permit Term	COMPOS
Acrolein	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Once Per Permit Term	COMPOS
Aldrin	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Once Per Permit Term	COMPOS
			M&R				

Discharge Limitations Table for Sample Location 001 (Lake Drain Valve-External Outfall) To Be Reported Once During The Permit Term

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
.alpha.-Endosulfan	Daily Maximum		Micrograms per Liter (ug/L)	Effluent Gross	001	Once Per Permit Term	COMPOS
.beta.-Endosulfan	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Once Per Permit Term	COMPOS
Chlordane (tech mix. and metabolites)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Once Per Permit Term	COMPOS
Chlorpyrifos	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Once Per Permit Term	COMPOS
4,4-DDT	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Once Per Permit Term	COMPOS
Demeton	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Once Per Permit Term	COMPOS
Diazinon	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Once Per Permit Term	COMPOS
Dieldrin	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Once Per Permit Term	COMPOS
Endrin	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Once Per Permit Term	COMPOS
Azinphos-Methyl (Guthion)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Once Per Permit Term	COMPOS
Heptachlor	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Once Per Permit Term	COMPOS
			M&R				

Discharge Limitations Table for Sample Location 001 (Lake Drain Valve-External Outfall) To Be Reported Once During The Permit Term

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Heptachlor epoxide	Daily Maximum		Micrograms per Liter (ug/L)	Effluent Gross	001	Once Per Permit Term	COMPOS
Lindane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Once Per Permit Term	COMPOS
Malathion	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Once Per Permit Term	COMPOS
Methoxychlor	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Once Per Permit Term	COMPOS
Mirex	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Once Per Permit Term	COMPOS
Nonylphenol	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Once Per Permit Term	COMPOS
Parathion	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Once Per Permit Term	COMPOS
Pentachlorophenol	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Once Per Permit Term	COMPOS
Polychlorinated biphenyls (PCBs)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Once Per Permit Term	COMPOS
Toxaphene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Once Per Permit Term	COMPOS
Tributyltin	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	001	Once Per Permit Term	COMPOS

Notes (Discharge Limitations Table):

1. Sampling shall be done to the dissolved fraction.
2. Total recoverable.

Summary of Changes From Previous Permit
Under Outfall 001, To Be Reported Monthly the following parameters were added or deleted:

ADDED - Nitrogen, ammonia total (as N), with a "Daily Maximum" Base, a "M&R Pounds per Day (lb/d)" Quantity, an "M&R Milligrams per Liter (mg/L)" Concentration, an "Internal Monitoring Point" Monitoring Location, a "001" Sample Location, a "See Permit" Measurement Frequency, and a "Compos" Sample Type.

ADDED Nitrogen, nitrate total (a N), with a “Daily Maximum” Base, a “<= 90 Milligrams per Liter (mg/L)” Quantity, an “Internal Monitoring Point” Monitoring Location, a “001” Sample Location, a “See Permit” Measurement Frequency, and “Compos” Sample Type.

ADDED Nitrogen, nitrite total (a N), with a “Daily Maximum” Base, a “<= 5 Milligrams per Liter (mg/L)” Quantity, an “Internal Monitoring Point” Monitoring Location, a “001” Sample Location, a “See Permit” Measurement Frequency, and “Compos” Sample Type.

ADDED – Oxygen, dissolved (DO), with a “Daily Minimum” Base, a “>= 5 Milligrams per Liter (mg/L)” Quantity, an “Internal Monitoring Point” Monitoring Location, a “001” Sample Location, a “See Permit” Measurement Frequency, and “Compos” Sample Type.

ADDED - Phosphorus, total (as P), with a "Daily Maximum" Base, a "M&R Pounds per Day (lb/d)" Quantity, an "M&R Milligrams per Liter (mg/L)" Concentration, an "Internal Monitoring Point" Monitoring Location, a "001" Sample Location, a "See Permit" Measurement Frequency, and a "Compos" Sample Type.

ADDED – Temperature, water deg centigrade, with a “Daily Maximum” Base, a “<= 34 Degrees Centigrade (deg C)” Concentration, an “Internal Monitoring Point” Monitoring Location, a “001” Sample Location, a “See Permit” Measurement Frequency, and “Compos” Sample Type.

ADDED - Footnotes 4 and 5.

4. CFU/100mL or MPN/100mL.

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

ADDED – Outfall 001, To Be Reported Once During the Permit Term, along with the following parameters:

ADDED – Toxic Materials (see NAC 445A.1236), with a “Daily Maximum” Base, an “M&R Micrograms per Liter (ug/L)” Concentration, a “Internal Monitoring Point” Monitoring Location, a “001” Sample Location, “Once During Permit Term” Measurement Frequency, and a “Compos” Sample Type.

ADDED – Footnotes 1 and 2.
1. Sampling to be done to 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 following water quality-based effluent limit (WQBEL) requirements, based on NAC 445A.2158, are included in the proposed permit to ensure that the discharge does not cause water quality standards (WQSs) violations. In addition, the proposed permit requires monitoring and reporting of constituents that are subject of WQSs and may be present in the discharge.

The proposed permit retains a daily maximum limit of 400 Most Probable Number per 100 ml T

(MPN/100mL) and an annual geometric mean of 200 MPN/100mL, as prescribed under NAC 445A.2158 to protect the maintenance of a freshwater marsh designated beneficial use, with a monthly reporting requirement.

The proposed permit retains a daily maximum of 17 mg/L for TIN to protect the aquatic life designated beneficial use, with a monthly reporting requirement.

The proposed permit retains a daily maximum limit of 9.0 standard units (S.U.) and a daily minimum limit of 6.5 S.U. for pH as prescribed at NAC 445A.2158 to protect the aquatic life designated beneficial use, with a monthly reporting requirement.

The proposed permit retains a daily maximum of 2400 mg/L for TDS as prescribed for the Requirements to Maintain Existing Higher Quality (RMHQ) under NAC 445A.2158, to protect the watering of livestock designated beneficial use, with a monthly reporting requirement.

The proposed permit retains a daily maximum of 135 mg/L for total suspended solids (TSS) as prescribed under NAC 445A.2158, to protect the aquatic life designated beneficial use, with a monthly 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.” NAC 445A.243 requires the Division to consider the establishment of effluent limitations necessary to meet WQSs.

The RPA was based on WQSs and impairments, along with a narrative criteria analysis, using best professional judgement (BPJ), for impacts to temperature, pH, D.O., TIN, Nitrate (as N), Nitrite (as N), TSS, TDS, fecal coliform, and toxic materials parameters listed in the water quality standards table per NAC 445A.2158 and NAC 445A.1236, with both sets of standards being applicable to Las Vegas Wash at Lake Mead.

Proposed Water Quality Based Effluent Limits (monthly/weekly/daily)

The proposed permit establishes a daily minimum of 5 mg/L for dissolved oxygen (DO) as prescribed under NAC 445A.2158, to protect the aquatic life designated beneficial use, with a monthly reporting requirement.

The proposed permit establishes a 30-day geometric mean of 630 MPN/100mL for *E. coli*, as prescribed under NAC 445A.2158, for the recreation not involving contact with the water designated beneficial use, with a monthly reporting requirement.

The proposed permit establishes a daily maximum of 90 mg/L for nitrate (as N) as prescribed under NAC 445A.2158, to protect the aquatic life designated beneficial use, with a monthly reporting requirement.

The proposed permit establishes a daily maximum of 5 mg/L for nitrite (as N) as prescribed under NAC 445A.2158, to protect the aquatic life designated beneficial use, with a monthly reporting requirement.

The proposed permit establishes a daily maximum of 34 degrees centigrade (deg C) for Temperature as prescribed under NAC 445A.2158, to protect the aquatic life designated beneficial use, with a monthly reporting requirement.

The proposed permit establishes a daily maximum of M&R micrograms per liter (ug/L) for the toxic material parameters, as prescribed under NAC 445A.2158 for the aquatic life, irrigation, and watering of livestock beneficial uses, with a “once during the permit term” reporting requirement.

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

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

The calculate the mass of total ammonia (as N) and total phosphorus, use the following formula:

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

Basis for Effluent Limitations
The standards for toxic material (NAC 445A.1236) apply. Most of the toxic materials listed only have water quality criteria to protect the municipal or domestic supply beneficial use which is not applicable to the section of the Las Vegas Wash receiving the discharge. The toxic materials shall be sampled for once a permit term. 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 permit allows for an annual discharge of up to 2,500 AF/yr (815 million gallons per year) for maintaining LLV's water quality during non-storm flow events. Flood control and toe-drain discharges are not limited, but the cumulative flow shall be reported in the Quarterly Discharge Monitoring Reports. During the period from January 2020 through December 2025, there have been no lake water discharges for the purpose of water quality management or storm surge events.

Anti-backsliding
Sections 402(o) and 303(d)(4) 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. For this permit, limits were maintained with additional reportable parameters now included.

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 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 recreational 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	Water Quality Management discharges, up to 2500 acre-feet/year (815 million gallons per year) are only permitted for the period of November 1 through March 30 of each year when the lake water column is not stratisfied and aerobic throughout.
2	All flow measurements shall be submitted as part of the quarterly monitoring reports. All water quality data shall be submitted annually as part of the Annual Water Quality Monitoring Report required by the Division's Bureau of Water Quality Planning, and copied to the Bureau of Water Pollution Control.
3	Reporting of stormwater releases shall be made to Nevada Division of Environmental Protection, Bureau of Water Pollution Control within 24 hours of the discharge event. The total volume of stormwater discharged shall also be submitted annually.
4	Section C.8 - The parts of this section that refer to the diversion, bypass, spill, overflow or discharge of treated or untreated wastewater from wastewater treatment or conveyance facilities do not apply to this permit. Lake Las Vegas Dam is not a wastewater treatment or conveyance facility.
5	Section A.2.1 Discharges are allowed under this permit for water quality purposes only. This restriction applies specifically to the water quality releases through the Lake Drain Valve and does not apply to releases required for sam safety or to stormwater releases.

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

Corrective Action Sites
There are no active Bureau of Corrective Actions (BCA) remediation sites located within a one-mile radius of this permitted surface water source or surrounding community falling within the boundary of the Lake Las Vegas Resort.

Wellhead Protection Program
The outfalls are not located within a Wellhead Protection Area, which represents an approximate 10-year capture zone of a well, nor within a Drinking Water Protection Area, which is defined by a 3,000-foot radius around a public water supply (PWS) well.

Schedule of Compliance:

SOC – Schedule of Compliance Table

There are no Schedule of Compliance items

Deliverable Schedule:

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

Item #	Description	Interval	First Scheduled Due Date
1	Quarterly Reports	Quarterly	4/28/2027
2	Water Quality Monitoring Report	Annually	4/1/2027
3	Stormwater Discharge Volume Total	Annually	4/1/2027

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. **12/14/2026,** 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: **11/4/2026**
Title: **Staff II Engineer**