



STATE OF NEVADA

Department of Conservation & Natural Resources

DIVISION OF ENVIRONMENTAL PROTECTION

Brian Sandoval, Governor

Leo M. Drozdoff, P.E., Director

Colleen Cripps, Ph.D., Administrator

FACTSHEET (pursuant to NAC 445A.236)

Permittee Name: NEVADA DEPARTMENT OF WILDLIFE
1100 VALLEY ROAD
RENO, NV - 89512

Permit Number: NS0092035

Location: MASON VALLEY WILDLIFE MANAGEMENT AREA, LYON
1 LUX LANE, YERINGTON, NV - 89447
LATITUDE: 39.04834550, LONGITUDE: -119.129965
TOWNSHIP: T14N, RANGE: R26E, SECTION: S18

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Outfall City	Outfall State	Outfall Zip	Outfall County	Latitude	Longitude	Receiving Water
001	CITY OF YERINGTON EFFLUENT TO CINNAMON POND	External Outfall		YERINGTON	NV	89447	LYON	39.067617	-119.104490	GROUNDWATER
002	MASON VALLEY FISH HATCHERY TO KUENZLI POND	External Outfall		YERINGTON	NV	89447	LYON	39.080483	-119.117650	GROUNDWATER
003	DISCHARGE FROM KUENZLI POND TO STOCKED FISHING PONDS	External Outfall		YERINGTON	NV	89447	LANDER	39.081106	-119.118402	GROUNDWATER

General:

Mason Valley Wildlife Management Area is operated by the Nevada Department of Wildlife (NDOW) as a wildlife habitat with areas set aside for hunting and fishing. City of Yerington effluent is received in the wildlife management area's Cinnamon Pond. Cinnamon Pond is a 125-acre wetland habitat providing waterfowl habitat and managed duck hunting. The wildlife management area also reuses effluent from its trout hatchery. Not covered in this permit's monitoring conditions, but also intermittently supplied to the Mason Valley Wildlife Management Area, is non-contact, cooling pond water from the NV Energy Ft. Churchill Generating Station (permit NS0095001).

Discharge Characteristics:

The discharges authorized by this permit did not exceed permit limits within the last 5-year permit cycle.

Treated municipal effluent is discharged to the Cinnamon Pond from the City of Yerington. The treated effluent meets secondary treatment standards for reuse Category D as defined in NAC 445A.276.

Hatchery effluent is discharged to the Kuenzli Pond for treatment via natural wetland purification processes and is then discharged to the area's stocked fishing ponds. Hatchery water is sourced from five on-site production wells. The water is used in the hatchery as single-pass water in the egg hatchery and raceways.

Ft. Churchill Generating Station supplies its non-contact cooling pond water, as needed, to augment the operating level in the North Pond at the wildlife management area. The discharge from the Ft. Churchill Generating Station is regulated under permit NS0095001.

Receiving Water:

The wetland and fishing ponds are unlined, and as such, allow some seepage to groundwater of the State. The depth to groundwater at the fish hatchery is reported to be 33 ft below ground surface. The groundwater flow path from the ponds is also reported to be west-northwest.

Summary of Changes From Previous Permit:

No substantial changes have been made to this permit from its previous version. Due to a new permit naming convention at NDEP, Bureau of Water Pollution Control, the permit identification has been changed from NEV92035 to NS0092035. This change does not reflect a change in the type of permit being issued. NEV and NS permits are for groundwater discharges to the State of Nevada. These are not to be confused with NV permits which are reserved for NPDES permitting.

Proposed Effluent Limitations:

The effluent from the City of Yerington is regulated and enforced under permit NS0040033; therefore, the limits for that effluent under this permit are monitor and report.

Re-use Discharge Limitations Table for Outfall 001 - City Of Yerington Effluent To Cinnamon Pond, To Be Reported Monthly

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Coliform, fecal general	Daily Maximum		M&R Colony Forming Units per 100ml T (CFU/100mL) ^[2]	Effluent Gross	001	Monthly	DISCRT ^[1]
Coliform, fecal general	30 Day Average		M&R Colony Forming Units per 100ml T (CFU/100mL) ^[2]	Effluent Gross	001	Monthly	DISCRT ^[1]
pH, maximum	Monthly Maximum		M&R Standard Units (SU)	Effluent Gross	001	Monthly	DISCRT ^[1]
pH, minimum	Monthly Minimum		M&R Standard Units (SU)	Effluent Gross	001	Monthly	DISCRT ^[1]
Solids, total suspended	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Monthly	DISCRT ^[1]
Solids, total suspended	30 Day Average		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Monthly	DISCRT ^[1]
BOD, carbonaceous, 05 day, 20 C	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Monthly	DISCRT ^[1]
BOD, carbonaceous, 05 day, 20 C	30 Day Average		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Monthly	DISCRT ^[1]

Notes (Re-use Discharge Limitations Table):

1. Sampling results shall be provided by the City of Yerington (NS0040033) and reported by the Permittee on a DMR.
2. CFU or MPN/100 ml.

Re-use Discharge Limitations Table for Outfall 001 - City Of Yerington Effluent To Cinnamon Pond, To Be Reported Quarterly

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Phosphorus, total (as P)	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Quarterly	DISCRT ^[1]
Nitrogen, total	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Quarterly	DISCRT ^[1]

Notes (Re-use Discharge Limitations Table):

1. Sampling results shall be provided by the City of Yerington (NS0040033) and reported by the Permittee on a DMR.

Re-use Discharge Limitations Table for Outfall 001 - City Of Yerington Effluent To Cinnamon Pond, To Be Reported Annually^[1]

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Flow, total	Annual Total	M&R Gallons (gal)		Effluent Gross	001	Continuous	CALCTD

Notes (Re-use Discharge Limitations Table):

1. See Special Conditions/Approvals Table, Item #6 for the annual flow limit.

Re-use Discharge Limitations Table for Outfall 002 - Mason Valley Fish Hatchery To Kuenzli Pond, To Be Reported Monthly

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

Re-use Discharge Limitations Table for Outfall 002 - Mason Valley Fish Hatchery To Kuenzli Pond, To Be Reported Annually^[1]

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Phosphorus, total (as P)	Value		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	DISCRT
BOD, 5-day	Value		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	DISCRT
Solids, total suspended	Value		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	DISCRT
Solids, total dissolved	Value		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	DISCRT
pH	Value		M&R Standard Units (SU)	Effluent Gross	002	Annual	DISCRT
Nitrogen, total	Value		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	DISCRT
Nitrogen, ammonia total (as N)	Value		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	DISCRT
Nitrogen, ammonia, tot unionized (as N)	Value		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	DISCRT
Oxygen, dissolved (DO)	Value		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	DISCRT

Notes (Re-use Discharge Limitations Table):

1. Report on the 2nd Quarter DMR.

Re-use Discharge Limitations Table for Outfall 003 - Discharge From Kuenzli Pond To Stocked Fishing Ponds, To Be Reported Annually^[1]

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Solids, total suspended	Value		M&R Milligrams per Liter (mg/L)	Effluent Gross	003	Annual	DISCRT
Nitrogen, total	Value		M&R Milligrams per Liter (mg/L)	Effluent Gross	003	Annual	DISCRT
Nitrogen, ammonia, total unionized (as N)	Value		M&R Milligrams per Liter (mg/L)	Effluent Gross	003	Annual	DISCRT
Phosphorus, total (as P)	Value		M&R Milligrams per Liter (mg/L)	Effluent Gross	003	Annual	DISCRT
Oxygen, dissolved (DO)	Value		M&R Milligrams per Liter (mg/L)	Effluent Gross	003	Annual	DISCRT
BOD, 5-day	Value		M&R Milligrams per Liter (mg/L)	Effluent Gross	003	Annual	DISCRT
Solids, total dissolved	Value		M&R Milligrams per Liter (mg/L)	Effluent Gross	003	Annual	DISCRT
pH	Value		M&R Standard Units (SU)	Effluent Gross	003	Annual	DISCRT
Nitrogen, ammonia total (as N)	Value		M&R Milligrams per Liter (mg/L)	Effluent Gross	003	Annual	DISCRT

Notes (Re-use Discharge Limitations Table):

1. Report on the 2nd Quarter DMR.

Special Conditions:

SA – Special Approvals / Conditions Table

Item #	Description
1	Sampling of and monitoring of the effluent discharged to Cinnamon Pond is the responsibility of the City of Yerington (permit NS0040033) as specified in the Cooperative Agreement between the City of Yerington and the Nevada Department of Wildlife.
2	Any changes to the Cooperative Agreement shall be submitted to the Division for review.
3	The Cinnamon Pond cascade aerator outfall and mixing pool area shall be fenced and posted as specified in the Cooperative Agreement.
4	The Division shall be notified if the Permittee observes or finds evidence that floating solids, debris, or wastewater-derived sludge has been discharged from the City of Yerington effluent pipeline into the Cinnamon Pond mixing pool.
5	There shall be no discharge to the Walker River or to any waters outside the boundary of the Mason Valley Wildlife Management Area.
6	The flow of treated effluent from the City of Yerington into Cinnamon Pond shall not exceed 660 acre-feet per year.

Flow:

Flow from the Yerington Wastewater Treatment Facility is limited to 660 acre-feet/year. Flow from the fish hatchery is required to be monitored and reported.

Corrective Action Sites:

There are no Corrective Actions sites within one mile of the discharge locations.

Wellhead Protection Program:

The municipal and hatchery effluent reuse areas are not located within a Drinking Water Protection Area nor a wellhead capture zone for any public supply well.

Schedule of Compliance:

SOC – Schedule of Compliance Table

Item #	Description	Due Date
1	Within ninety (90) days of the permit renewal date, the Permittee shall submit an updated copy of the Effluent Management Plan (EMP) covering the reuse of municipal, hatchery and non-contact cooling pond effluent at the Mason Valley Wildlife Management Area.	4/10/2015

Deliverable Schedule:

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

Item #	Description	Interval	First Scheduled Due Date
1	Quarterly Report	Quarterly	4/28/2015
2	Annual Report	Annually	1/28/2016
3	Color photographs(s) of the Cinnamon Pond mixing pool area and Kuenzli Pond, labeled and dated, shall be submitted to this office annually as part of the 4th quarter DMR.	Annually	1/28/2016

Procedures for Public Comment:

The Notice of the Division's intent to issue a permit authorizing the facility to discharge to groundwater of the State of Nevada subject to the conditions contained within the permit, is being sent to the **Mason Valley News, Reno Gazette Journal** for publication. The notice is being mailed to interested persons on our mailing list. Anyone wishing to comment on the proposed permit can do so in writing until 5:00 P.M. **1/5/2015**, a period of 30 days following the date of the public notice. The comment period can be extended at the discretion of the Administrator.

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

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

Proposed Determination:

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

Prepared by: **Peter Lassaline**

Date: **11/24/2014**

Title: **Environmental Scientist**