



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 CORRECTIONS
3955 W. RUSSELL ROAD
LAS VEGAS, NV - 89118

Permit Number: NS0090053

Location: LOVELOCK CORRECTIONAL CENTER, PERSHING
1200 PRISON ROAD, LOVELOCK, NV - 89419
LATITUDE: 40.223058, LONGITUDE: -118.385367
TOWNSHIP: T27N, RANGE: R32E, SECTION: S9

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Outfall City	Outfall State	Outfall Zip	Outfall County	Latitude	Longitude	Receiving Water
001	RAPID INFILTRATION BASINS	External Outfall		LOVELOCK	NV	89419	PERSHING	40.219323	-118.395201	GROUNDWATER
INF	INFLUENT	Influent Structure		LOVELOCK	NV	89419	PERSHING	40.225663	-118.389553	FACULTATIVE PONDS

General:

The Nevada Department of Corrections operates Lovelock Correctional Center (LCC), located six miles northeast of Lovelock and approximately one mile east of U.S. I-80. LCC is a medium-security men's prison currently housing approximately 1,646 inmates.

This groundwater discharge permit is to be issued with a 0.25 million gallons per day (MGD) flow limit. Influent wastewater is first screened and then metered (Parshall Flume) in the treatment headworks. The screened influent is then split evenly for treatment in two HDPE-lined aerated facultative ponds. Each facultative pond is outfitted with two 5 hp and one 15 hp aerators, which effect treatment and reduce odor. Per submitted design criteria, the combined area of the aerated ponds at operating capacity is 2.38 acres, with combined storage capacity of 5.9 million gallons, and maximum operating depth in each pond of 10 feet. The effluent from the aerated facultative ponds then discharges to two HDPE-lined secondary (polishing) ponds for further organic removal, solids settling, and natural decay of fecal coliform bacteria. The combined area of the polishing ponds is 1.4 acres, combined storage capacity is 1.9 million gallons, and maximum operating depth in each pond is 5 feet. After polishing, the treated effluent is discharged to six rapid infiltration basins (RIBs) for percolation to the groundwater. The combined area of the RIBs is 13 acres.

Discharge Characteristics:

The average flow for January 2007 through September 2012 was 0.21 MGD with a maximum of 0.33 MGD. The average daily maximum during that time for CBOD (carbonaceous biochemical oxygen demand) was 32 mg/l, with a maximum of 79 mg/l. TSS (total suspended solids) averaged 56 mg/l and had a maximum of

146 mg/l. pH remained within the range of 6.0-9.0 standard units. Total nitrogen in the effluent averaged 34 mg/l.

Receiving Water:

The receiving water body for the permitted discharge is groundwater of the State via percolation in six RIBs. No adverse effects are expected as a result of discharges in accordance with the permit.

Summary of Changes From Previous Permit:

Due to new permit naming conventions at NDEP, Bureau of Water Pollution Control, the permit ID has been changed from NEV90053 to NS0090053. 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.

WWTP Discharge Limitations Table for Sample Location 001 (External Outfall) To Be Reported Monthly

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
BOD, carbonaceous, 05 day, 20 C	30 Day Average		<= 30 Milligrams per Liter (mg/L)	Effluent Gross	001	Twice Per Month	DISCRT
BOD, carbonaceous, 05 day, 20 C	Daily Maximum		<= 45 Milligrams per Liter (mg/L)	Effluent Gross	001	Twice Per Month	DISCRT
Solids, total suspended	Daily Maximum		<= 90 Milligrams per Liter (mg/L)	Effluent Gross	001	Monthly	DISCRT
pH, minimum	Minimum Value		>= 6 Standard Units (SU)	Effluent Gross	001	Monthly	DISCRT
pH, maximum	Maximum Value		<= 9 Standard Units (SU)	Effluent Gross	001	Monthly	DISCRT

WWTP Discharge Limitations Table for Sample Location 001 (External Outfall) To Be Reported Quarterly

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

WWTP Discharge Limitations Table for Sample Location Inf (Influent Structure) To Be Reported Monthly

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Flow rate	30 Day Average	<= 0.25 Million Gallons per Day (Mgal/d)		Raw Sewage Influent	INF	Continuous	METER
BOD, carbonaceous, 05 day, 20 C	30 Day Average		M&R Milligrams per Liter (mg/L)	Raw Sewage Influent	INF	Monthly	DISCRT

Special Conditions:

SA – Special Approvals / Conditions Table

Item #	Description
1	If the effluent BOD levels remain within the permitted limits for six (6) consecutive months, the Permittee may request that the monitoring frequency for effluent BOD be lessened from twice per month to once per month.

Flow:

Flow is tracked to ensure that the design capacity of the treatment ponds is not exceeded.

Corrective Action Sites:

There are no Bureau of Corrective Actions remediation sites located within one (1) mile of this facility.

Wellhead Protection Program:

The facility is not within a 6000 ft. buffer around any public water supply well, nor is it within a drinking water protection area.

Schedule of Compliance:

SOC – Schedule of Compliance Table

Item #	Description	Due Date
1	The Permittee shall submit two (2) copies of a revised Operations and Maintenance (O&M) Manual, prepared by a Nevada licensed professional engineer or other qualified person, for Division review and approval. If no changes have been made to the O&M Manual since the last submittal, a letter shall be submitted stating so.	7/22/2013

Deliverable Schedule:

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

Item #	Description	Interval	First Scheduled Due Date
1	Quarterly Reports	Quarterly	7/28/2013
2	Annual Reports	Annually	1/28/2014

Procedures for Public Comment:

The Notice of the Division's intent to reissue a permit authorizing the facility to discharge to groundwater of the State of Nevada subject to the conditions contained within the permit, is being sent to the **Reno Gazette Journal, Lovelock Review-Miner** 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. **4/15/2013**, 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.650.

Proposed Determination:

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

Prepared by: **Peter Lassaline**

Date: **12/3/2012**

Title: **Environmental Scientist**