



FACTSHEET
(pursuant to NAC 445A.236)

Permittee Name: GERLACH GENERAL IMPROVEMENT DISTRICT
410 COTTONWOOD
GERLACH, NV - 89412

Permit Number: NS0020010

Location: GERLACH WASTEWATER TREATMENT FACILITY, WASHOE
1 MILE SOUTH OF GERLACH, GERLACH, NV - 89412
LATITUDE: 40.648056, LONGITUDE: -114.350833
TOWNSHIP: 32 N, RANGE: 23 E, SECTION: 23

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Outfall City	Outfall State	Outfall Zip	Outfall County	Latitude	Longitude	Receiving Water
001	INFLUENT	Internal Outfall		GERLACH	NV	89412	WASHOE	40.648056	-119.350833	GROUNDWATER
002	EFFLUENT	External Outfall		GERLACH	NV	89412	WASHOE	40.648056	-119.350833	GROUNDWATER
003	PONDS	External Outfall		GERLACH	NV	89412	WASHOE	40.648056	-119.350833	GROUNDWATER

General:

Gerlach General Improvement District filed an application to renew its discharge permit. The Permittee operates a pond (lagoon) wastewater treatment facility which is located southeast of the Town of Gerlach in Washoe County. The Permittee upgraded the facility in 2012 by removing accumulated pond sludge, lining the two treatment ponds, installing a new ultrasonic flow meter and making improvements to the collection system. The rated treatment capacity is 23,000 gallons per day (gpd) of domestic (sanitary) wastewater with two commercial establishments. Treated effluent from the ponds is discharged to the groundwater in two rapid infiltration basins (RIBs). This renewal permit is not substantively different from the previous permit.

Discharge Characteristics:

Water quality data from the 2015 Discharge Monitoring Reports listed the following data:

Flow: 30-day average flows ranged from a low of 10,000 gpd to high of 12,700 gpd. The maximum day flow was 24,000 gpd. This may have been an anomaly as the readings the rest of the year averaged about 13,000 gpd. The plant's capacity is 23,000 gpd, so there is plenty of capacity should future development occur.

Carbonaceous Biochemical Oxygen Demand: Quarterly effluent CBOD samples are taken once per quarter. Values ranged from 24 mg/L to 50 mg/L. Two of the quarterly values were slightly above the permitted limit of 45 mg/L. Influent CBOD samples are not required in this permit.

Total Suspended Solids: Quarterly effluent TSS values ranged from 42 mg/L to 72 mg/L, which are all below the permitted limit of 90 mg/L.

pH: Quarterly pH values were all within the permitted range of 6.0 SU to 9.0 SU.

Freeboard: Freeboard in the ponds is measured quarterly and the values were all above the permitted 2.0 feet.

Receiving Water:

The receiving waters are groundwaters of the State via percolation in two RIBs.

Summary of Changes From Previous Permit:

The following changes from the previous permit have been made to this permit:

Increased Monitoring: Gerlach will be required to sample the raw sewage influent quarterly and report values for CBOD and TSS. Total nitrogen will also need to be reported. The values are all monitor and report.

Monitoring Well: Gerlach will no longer be required to sample and report water quality data from the monitoring well. The historical water quality from the playa and leakage of effluent from the previous treatment ponds show that elevated values of total dissolved solids (TSS), chlorides, nitrates and total nitrogen will not be mitigated using Gerlach's treatment ponds. Gerlach uses water from municipal drinking water wells located approximately 8 miles north of the town, so the degraded water quality below the RIBs will not affect the residents.

Sludge Depth Reporting: Gerlach will be required to sample the sludge depths in the treatment pond during the 3rd quarter of each year of this permit. When the sludge depths average 20-percent of the total depth of the pond, Gerlach shall submit a plan to NDEP that outlines the schedule to remove the sludge within two years.

Net-DMR: Gerlach will have one year from the issuance of this permit to sign up to submit quarterly DMRs electronically using Net-DMR. The Bureau of Water Pollution Control's (BWPC) Nevada-NetDMR system is a web-based site that allows electronic submission of DMRs. Nevada-NetDMR enables a Permittee the ability to enter and electronically submit DMR data. By using Nevada-NetDMR, Permittees will save time, see a reduction in its paperwork burden, and data will automatically error-check and validate the information prior to submission. The system also allows electronic submittal of attachments and supplemental documentation and provides instant confirmation of submission.

Permit Naming: Due to new permit naming conventions at the Nevada Division of Environmental Protection (NDEP), Bureau of Water Pollution Control, the permit number has been changed from NEV0020010 to NS00200010. This change does not reflect a change in the type of permit being issued.

Proposed Effluent Limitations:

The Permittee is authorized to discharge in accordance with the limitations, requirements and conditions of this permit. The discharge shall be limited, sampled and monitored by the Permittee as specified below:

WWTP Discharge Limitations Table for Sample Location 001 (Internal 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	<= 0.023 Million Gallons per Day (Mgal/d)		Raw Sewage Influent	001	Continuous	METER
Flow rate	30 Day Maximum	<= 0.023 Million Gallons per Day (Mgal/d)		Raw Sewage Influent	001	Continuous	METER

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

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
BOD, carbonaceous, 05 day, 20 C	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Raw Sewage Influent	001	Quarterly	GRAB
Solids, total suspended	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Raw Sewage Influent	001	Quarterly	GRAB

WWTP Discharge Limitations Table for Sample Location 002 (External Outfall) To Be Reported Quarterly

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
pH, maximum	Quarterly Maximum		<= 9 Standard Units (SU)	Effluent Gross	002	Quarterly	DISCRT
pH, minimum	Quarterly Minimum		>= 6 Standard Units (SU)	Effluent Gross	002	Quarterly	DISCRT
Solids, total suspended	Quarterly Maximum		<= 90 Milligrams per Liter (mg/L)	Effluent Gross	002	Quarterly	DISCRT
BOD, carbonaceous, 05 day, 20 C	Quarterly Maximum		<= 45 Milligrams per Liter (mg/L)	Effluent Gross	002	Quarterly	DISCRT
Nitrogen, total	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Quarterly	DISCRT

Notes (WWTP Discharge Limitations Table):

1. Field measurement.

Ponds / Rapid Infiltration Basins for Sample Location 003 (Ponds) To Be Reported Annually^{[1][2]}

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Sludge/Solids, depth ^[3]	Annual Maximum	M&R Feet (ft)		See Footnote	003 ^[4]	Annual ^[5]	VISUAL

Notes (Ponds / Rapid Infiltration Basins):

1. The Permittee shall use a method approved by NDEP to determine the sludge depth in its ponds. The plan for monitoring the sludge depths shall be submitted with O&M Manual.
2. When sludge depths average 20-percent of the total depth of the pond(s), the Permittee shall submit to NDEP a plan to remove the sludge within two years.
3. The Permittee shall report the total depth of the pond and the depth of sludge
4. The Permittee shall test the sludge depths at various spots in the pond that have been approved by NDEP.
5. The Permittee shall sample the sludge depths during the 3rd quarter.

Rationale for Permit Requirements:

Monitoring is required to ensure that groundwaters of the State of Nevada are not degraded. Monitoring is also required to assess the level of treatment being provided, and to determine compliance with discharge permit limits. The Permittee is in substantial compliance with its current discharge permit.

Special Conditions:

SA – Special Approvals / Conditions Table

There are no Special Approval / Condition items

Flow:

0.023 MGD - 30-day average and maximum day value.

Corrective Action Sites:

There is no remediation site managed by the NDEP Bureau of Corrective Actions located within a one-mile radius of the treatment facility.

Wellhead Protection Program:

Gerlach's facility is located outside the 6,000 ft. radius Drinking Water Protection Area for all community supply wells providing potable water to the Town of Gerlach. The nearest public supply well to this WWTF is located approximately eight miles northwest of the Town of Gerlach. The nearest domestic supply well to this WWTF is located approximately one mile northwest of the Town of Gerlach.

Schedule of Compliance:

SOC – Schedule of Compliance Table

Item #	Description	Due Date
1	The Permittee shall submit two copies to NDEP for review of an updated copy of an Operations & Maintenance (O&M) Manual prepared in accordance with the NDEP's WTS-2 Guidance: <i>Minimum Information Required for an Operations and Maintenance Manual</i> .	1/1/2017
2	All Discharge Monitoring Reports (DMRs) shall be submitted electronically through the Nevada NetDMR website: https://netdmr.ndep.nv.gov/netdmr/public/home.htm .	10/1/2017

Deliverable Schedule:

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

Item #	Description	Interval	First Scheduled Due Date
1	Quarterly DMRs	Quarterly	1/28/2017
2	Annual Report	Annually	1/28/2017

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 **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. **8/15/2016**, 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: **Steve McGoff, P.E.**

Date: **6/7/2013**

Title: **Professional Engineer**