FACTSHEET
(pursuant to NAC 445A.236)

Permittee Name: CANYON GENERAL IMPROVEMENT DISTRICT
800 PERI RANCH ROAD STE.103
SPARKS, NV - 89434

Permit Number: NS0050028

Location: CANYON GID WASTEWATER TREATMENT PLANT, STOREY
400 AVE DE LA COULEURS, LOCKWOOD, NV - 89434
LATITUDE: 39.5115, LONGITUDE: -119.6354
TOWNSHIP: 19 N, RANGE: 21 E, SECTION: 16

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	Influent Structure		SPARKS	NV	89434	STOREY	39.5116	-119.6355	GROUNDWATER
002	PUMP TANK	Internal Outfall		SPARKS	NV	89434	STOREY	39.5115	-119.6353	GROUNDWATER
003	RAPID INFILTRATION BASINS	External Outfall		SPARKS	NV	89434	STOREY	39.5105	-119.6350	GROUNDWATER
004	LOCKWOOD LANDFILL	External Outfall		SPARKS	NV	89434	STOREY	39.4936	-119.6206	GROUNDWATER
005	LOCKWOOD PARK	External Outfall		SPARKS	NV	89434	STOREY	39.5089	-119.6411	GROUNDWATER
MW2	MONITORING WELL 2	Monitoring Well		SPARKS	NV	89434	STOREY	39.5121	-119.6348	GROUNDWATER
MW3	MONITORING WELL 3	Monitoring Well		SPARKS	NV	89434	STOREY	39.5122	-119.6345	GROUNDWATER
MW5	MONITORING WELL 5	Monitoring Well		SPARKS	NV	89434	STOREY	39.5111	-119.6343	GROUNDWATER
MW6	MONITORING WELL 6	Monitoring Well		SPARKS	NV	89434	STOREY	39.5110	-119.6349	GROUNDWATER

General:

The Canyon General Improvement District (Canyon GID) has applied for a permit renewal to operate a wastewater treatment plant located at the east end of Avenue De La Couleurs in Lockwood, NV. The Canyon GID wastewater treatment plant receives flows from residential and commercial sources located in the area of the Rainbow Bend Mobile Home Park and Lockwood Mobile Home Park. Wastewater is treated to meet secondary treatment standards, denitrified,and disinfected. The facility has a design treatment capacity of 0.14 million gallons per day (MGD) and is permitted to discharge to rapid infiltration basins (RIBs), Lockwood Regional Landfill, and Lockwood Park. The treated effluent is used for dust control, soil compaction, and other acceptable beneficial uses at Lockwood Regional Landfill administered under effluent reuse permit NS2010502.

The major process components are: pump station, bar screen, anoxic chamber, aeration chamber, post anoxic chamber, clarifier, chlorine dosing tank, pump tank, sludge holding tank/digester, and a sludge press.

Discharge Characteristics:

The treated effluent meets Category B quality (NAC 445A.276) and is treated to meet secondary standards, denitrified, and disinfected prior to distribution for reuse or discharge to RIBs.

Receiving Water:

Groundwaters of the state via RIBs and effluent reuse

Summary of Changes From Previous Permit:

Due to the new naming conventions at the Nevada Division of Environmental Protection (NDEP), Bureau of Water Pollution Control (BWPC), the permit number has been changed from NEV50028 to NS0050028. This change does not reflect a change in the type of permit being issued.

The BWPC Nevada NetDMR System is a web based site that allows for electronic submission of Discharge Monitoring Reports (DMRs). Nevada NetDMR enables the permittee the ability to enter and electronically submit DMR data. By using Nevada NetDMR permittees will save time, see a reduction in paperwork burden, and data will automatically error-check and validate the information prior to submission. The system also allows for electronic submittal of attachments and supplemental documentation and provides instant confirmation of submission. All Discharge Monitoring Reports (DMRs) shall be submitted electronically through the Nevada NetDMR website: https://netdmr.ndep.nv.gov/netdmr/public/home.htm.

Proposed Effluent Limitations:

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

WWTP Discharge Limitations Table for Sample Location 001 (Influent Structure) To Be Reported Monthly

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Solids, total suspended	Daily Maximum		M&R Milligrams per Liter (mg/L)	Raw Sewage Influent	001	Monthly	DISCRT
Flow rate	30 Day Average	<= 0.14 Million Gallons per Day (Mgal/d)		Raw Sewage Influent	001	Continuous	METER
Flow rate	Daily Maximum	<= 0.35 Million Gallons per Day (Mgal/d)		Raw Sewage Influent	001	Continuous	METER
BOD, 5-day	Daily Maximum		M&R Milligrams per Liter (mg/L)	Raw Sewage Influent	001	Monthly	DISCRT

WWTP Discharge Limitations Table for Sample Location 002 (Pump Tank) To Be Reported Monthly

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
pH, maximum	Monthly Maximum		<= 9 Standard Units (SU)	Effluent Gross	002	Monthly	DISCRT
pH, minimum	Monthly Minimum		>= 6 Standard Units (SU)	Effluent Gross	002	Monthly	DISCRT
Coliform, fecal general	Daily Maximum		<= 23 Colony Forming Units per 100ml T (CFU/100mL)[1]	Effluent Gross	002	Monthly	DISCRT
Coliform, fecal general	30 Day Geometric Mean		<= 2.2 Colony Forming Units per 100ml T (CFU/100mL)[1]	Effluent Gross	002	Monthly	DISCRT
Solids, total suspended	30 Day Average		<= 30 Milligrams per Liter (mg/L)	Effluent Gross	002	Monthly	DISCRT
Solids, total suspended	Daily Maximum		<= 45 Milligrams per Liter (mg/L)	Effluent Gross	002	Monthly	DISCRT
BOD, 5-day	30 Day Average		<= 30 Milligrams per Liter (mg/L)	Effluent Gross	002	Monthly	DISCRT
BOD, 5-day	Daily Maximum		<= 45 Milligrams per Liter (mg/L)	Effluent Gross	002	Monthly	DISCRT
Nitrogen, total	Daily Maximum		<= 10 Milligrams per Liter (mg/L)	Effluent Gross	002	Monthly	DISCRT

Notes (WWTP Discharge Limitations Table):

1. CFU or MPN/100 ml

Groundwater Monitoring Wells Table for Sample Location Mw2 (Monitoring Well 2) To Be Reported Quarterly

	Discharge Limitations			Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Depth to water level ft below landsurface	Quarterly Maximum	M&R Feet (ft)		Groundwater	MW2	Quarterly	VISUAL[1]
Chloride (as Cl)	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW2	Quarterly	DISCRT
Solids, total dissolved	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW2	Quarterly	DISCRT
Water level relative to mean sea level[2]	Quarterly Maximum	M&R Feet (ft)		Groundwater	MW2	Quarterly	CALCTD
Nitrogen, total	Quarterly Maximum		<= 10 Milligrams per Liter (mg/L)	Groundwater	MW2	Quarterly	DISCRT

Notes (Groundwater Monitoring Wells Table):

1. Field measurement
2. Groundwater elevation above mean seal level (AMSL)

Groundwater Monitoring Wells Table for Sample Location Mw3 (Monitoring Well 3) To Be Reported Quarterly

	Discharge Limitations			Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Depth to water level ft below landsurface	Quarterly Maximum	M&R Feet (ft)		Groundwater	MW3	Quarterly	VISUAL[1]
Water level relative to mean sea level[2]	Quarterly Maximum	M&R Feet (ft)		Groundwater	MW3	Quarterly	CALCTD
Nitrogen, total	Quarterly Maximum		<= 10 Milligrams per Liter (mg/L)	Groundwater	MW3	Quarterly	DISCRT
Chloride (as Cl)	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW3	Quarterly	DISCRT
Solids, total dissolved	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW3	Quarterly	DISCRT

Notes (Groundwater Monitoring Wells Table):

1. Field Measurement
2. Groundwater Elevation AMSL

Groundwater Monitoring Wells Table for Sample Location Mw5 (Monitoring Well 5) To Be Reported Quarterly

	Discharge Limitations			Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Depth to water level ft below landsurface	Quarterly Maximum	M&R Feet (ft)		Groundwater	MW5	Quarterly	VISUAL[1]
Water level relative to mean sea level[2]	Quarterly Maximum	M&R Feet (ft)		Groundwater	MW5	Quarterly	CALCTD
Nitrogen, total	Quarterly Maximum		<= 10 Milligrams per Liter (mg/L)	Groundwater	MW5	Quarterly	DISCRT
Chloride (as Cl)	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW5	Quarterly	DISCRT
Solids, total dissolved	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW5	Quarterly	DISCRT

Notes (Groundwater Monitoring Wells Table):

1. Field measurement
2. Groundwater elevation AMSL

Groundwater Monitoring Wells Table for Sample Location Mw6 (Monitoring Well 6) To Be Reported Quarterly

	Discharge Limitations			Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Depth to water level ft below landsurface	Quarterly Maximum	M&R Feet (ft)		Groundwater	MW6	Quarterly	VISUAL[1]
Water level relative to mean sea level[2]	Quarterly Maximum	M&R Feet (ft)		Groundwater	MW6	Quarterly	CALCTD
Nitrogen, total	Quarterly Maximum		<= 10 Milligrams per Liter (mg/L)	Groundwater	MW6	Quarterly	DISCRT
Chloride (as Cl)	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW6	Quarterly	DISCRT
Solids, total dissolved	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW6	Quarterly	DISCRT

Notes (Groundwater Monitoring Wells Table):

1. Field measurement
2. Groundwater elevation AMSL

Re-use Discharge Limitations Table for Sample Location 004 (Lockwood Landfill) To Be Reported Monthly

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Flow rate	Daily Maximum	M&R Million Gallons per Day (Mgal/d)		Prior to Reuse	004	Continuous	METER
Flow rate	30 Day Average	M&R Million Gallons per Day (Mgal/d)		Prior to Reuse	004	Continuous	METER

Re-use Discharge Limitations Table for Sample Location 005 (Lockwood Park) To Be Reported Monthly

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Flow rate	Daily Maximum	M&R Million Gallons per Day (Mgal/d)		Prior to Reuse	005	Continuous	METER
Flow rate	30 Day Average	M&R Million Gallons per Day (Mgal/d)		Prior to Reuse	005	Continuous	METER

Ponds / Rapid Infiltration Basins for Sample Location 003 (Rapid Infiltration Basins) To Be Reported Monthly

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Flow rate	Daily Maximum	M&R Million Gallons per Day (Mgal/d)		Effluent Gross	003	Continuous	METER
Flow rate	30 Day Average	M&R Million Gallons per Day (Mgal/d)		Effluent Gross	003	Continuous	METER

Rationale for Permit Requirements:

The limitations and monitoring requirements are intended to provide for appropriate reuse of treated effluent, and to minimize the possibility of adverse impact to groundwaters of the State.

Fecal Coliform:

The 30-day geometric mean is limited to 2.2 mpn/100 ml

The daily maximum is limited to 23 mpn/100 ml

Special Conditions:

Substantial compliance with the current permit is a condition of permit renewal.

SA – Special Approvals / Conditions Table

Item #	Description
1	The Permittee shall submit an updated Effluent Management Plan (EMP) for the irrigation reuse at the Lockwood Park two months prior to reuse operation at the park. The EMP shall be prepared and wet-stamped by a Nevada Registered Professional Engineer in accordance with guidance document WTS-1B: General Criteria for Preparing an Effluent Management Plan.

Flow:

The 30-Day Average inflow is limited to 0.14 MGD. The daily maximum inflow is limited to 0.35 MGD.

Corrective Action Sites:

There are three Bureau of Corrective Actions (BCA) remediation sites located within a one-mile radius of this facility. The BCA has indicated that it does not anticipate continued discharge activities to affect remediation activities at those sites.

Wellhead Protection Program:

The wastewater treatment plant and RIBs are located within a 1,000 foot radius Drinking Water Protection Area (DWPA) and within a 2-year Wellhead Protection Area (WHPA). Monitoring wells will continue to be sampled to ensure there are no negative impacts to the WHPA or DWPA.

Schedule of Compliance:

SOC – Schedule of Compliance Table

Item #	Description	Due Date
1	The Permittee shall submit an updated Operation and Maintenance (O&M) Manual to the Division. The O&M Manual shall be prepared in accordance with guidance document WTS-2: Minimum Information Required for an Operation and Maintenance Manual for a Wastewater Treatment Plant.	12/1/2016
2	All Discharge Monitoring Reports (DMRs) shall be submitted electronically through the Nevada NetDMR website: https://netdmr.ndep.nv.gov/netdmr/public/home.htm.	9/1/2017

Deliverable Schedule:

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

Item #	Description	Interval	First Scheduled Due Date
1	Quarterly DMRs	Quarterly	10/28/2016
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. **8/31/2016** , 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: **Nathan Smith**
Date: **7/28/2016**
Title: **Staff Engineer 2**