

Brian Sandoval, Governor Leo M. Drozdoff, P.E., Director David Emme, Administrator

FACTSHEET (pursuant to NAC 445A.236)

Permittee Name: LYON COUNTY UTILITIES DEPARTMENT PO BOX 1699 DAYTON, NV - 89403

Permit Number: NS2000500

Location: ROLLING A WASTEWATER TREATMENT PLANT, LYON 1165 FERETTO PARKWAY, DAYTON, NV - 89403 LATITUDE: 39.2940, LONGITUDE: -119.5050 TOWNSHIP: 17 N, RANGE: 22 E, SECTION: 34

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		DAYTON	NV	89403	LYON	39.2930	-119.5060	GROUNDWATER
002	EFFLUENT - TOTAL	External Outfall		DAYTON	NV	89403	LYON	39.2920	-119.5070	GROUNDWATER
003	RAPID INFILTRATION BASINS	External Outfall		DAYTON	NV	89403	LYON	39.2930	-119.5070	GROUNDWATER
004	3 J"S LEGADO GOLF COURSE	External Outfall		DAYTON	NV	89403	LYON	39.2450	-119.5480	GROUNDWATER
005	DUST CONTROL	External Outfall		DAYTON	NV	89403	LYON	39.2920	-119.5060	GROUNDWATER
006	SOUTH TREATMENT PLANT (LINED PONDS)	External Outfall		DAYTON	NV	89403	LYON	39.2380	-119.5460	GROUNDWATER
007	MONITORING WELL - MW#1	Monitoring Well		DAYTON	NV	89403	LYON	39.2930	-119.5040	GROUNDWATER
008	MONITORING WELL - MW#2	Monitoring Well		DAYTON	NV	89403	LYON	39.2930	-119.5040	GROUNDWATER
009	MONITORING WELL - MW#3	Monitoring Well		DAYTON	NV	89403	LYON	39.2920	-119.5040	GROUNDWATER
010	MONITORING WELL - MW#4	Monitoring Well		DAYTON	NV	89403	LYON	39.2910	-119.5050	GROUNDWATER
011	MONITORING WELL - MW#5	Monitoring Well		DAYTON	NV	89403	LYON	39.2940	-119.5040	GROUNDWATER
012	MONITORING WELL - MW#7	Monitoring Well		DAYTON	NV	89403	LYON	39.2910	-119.5090	GROUNDWATER
013	MONITORING WELL - MW#12	Monitoring Well		DAYTON	NV	89403	LYON	39.2930	-119.5060	GROUNDWATER
014	FLOOD IRRIGATION AREA	External Outfall		DAYTON	NV	89403	LYON	39.2920	-119.5040	GROUNDWATER
015	VIDLER RAPID INFILTRATION BASIN	External Outfall		DAYTON	NV	89403	LYON	39.2830	-119.5120	GROUNDWATER
016	SOUTH PLANT (RAPID INFILTRATION BASINS)	External Outfall		DAYTON	NV	89403	LYON	39.2380	-119.5460	GROUNDWATER
017	NORTH PLANT (RAPID INFLITARION BASINS)	External Outfall		DAYTON	NV	89403	LYON	39.2870	-119.5670	GROUNDWATER
018	6-MILE PARK	External Outfall		DAYTON	NV	89403	LYON	39.3010	-119.5450	GROUNDWATER
019	RIVERVIEW ELEMENTARY SCHOOL	External Outfall		DAYTON	NV	89403	LYON	39.2950	-119.5020	GROUNDWATER
020	O"CALLAGHAN RANCH	External Outfall		DAYTON	NV	89103	LYON	39.2980	-119.4950	GROUNDWATER

General:

The Permittee, Lyon County Utilities Department, has applied for the renewal of permit NS2000500 for the

Rolling A Wastewater Treatment Plant (WWTP) located at 1165 Feretto Parkway in Lyon County, Nevada. The WWTP is designed to utilize an extended aeration process with biological nutrient removal to treat municipal wastewater in the Dayton Valley service area. The treated effluent will be disinfected, before disposal in a series of Rapid Infiltration Basins (RIBs), stored, or used for reuse irrigation, or for other approved uses. Effluent reuse is also approved for dust control, construction uses, and may be approved at other sites on a case by case basis.

A clay-lined, 160-foot by 360-foot, 1.32-acre pond, is currently utilized for the storage of sludge generated by the WWTP activated sludge process plant. In the future, a solids processing facility will be constructed on site which will eliminate the need for the sludge lagoon. There are seven monitoring wells which have been installed downgradient of the facility plus a municipal well approximately 4,000 feet to the west of the facility which are used to monitor groundwater quality.

The plant is approved to treat and discharge a daily maximum of 1.76 million gallons per day (MGD) of treated wastewater. Groundwater monitoring is conducted quarterly to monitor for any possible impacts. Potential environmental impacts resulting from the operation of the WWTP include the discharge of elevated levels of chlorides and dissolved solids to groundwaters of the State.

Discharge Characteristics:

The WWTP supplies fully treated and disinfected effluent water.

Receiving Water:

Depth to groundwater near the plant site is approximately 9 feet to 10 feet below ground surface and is of potable quality. Groundwater samples are collected and analyzed quarterly from seven monitoring wells for the presence of total nitrogen as N, chlorides, sulfate as S, and total dissolved solids.

Summary of Changes From Previous Permit:

The influent daily maximum flow rate has been changed from 1.50 MGD to 1.76 MGD. The 30-day average flow rate has been changed from 1.50 MGD to monitor and report.

The effluent BOD₅ monthly average has been changed to a 30-day average.

The effluent Total Nitrogen monthly average has been removed.

Outfall 014, for the flood irrigation of the Rolling A Ranch area to the southeast of the WWTP, has been added to the permit. The requirement to monitor and report the daily maximum and 30-day average flow rate for outfall 014 has also been added to the permit.

Outfall 015, for the future RIB site at Vidler, has been added to the permit. The requirement to monitor and report the daily maximum and 30-day average flow rate for outfall 015 has also been added.

Outfall 016, for the RIBs at the South Plant, have been added to the permit. The requirement to monitor and report the daily maximum and 30-day average flow rate for outfall 016 has also been added.

Outfall 017, for the RIBs at the North Plant, have been added to the permit. The requirement to monitor and report the daily maximum and 30-day average flow rate for outfall 017 has also been added.

Outfall 018, for reuse irrigation at 6-Mile Park, has been added to the permit. The requirement to monitor and report the daily maximum and 30-day average flow rate for outfall 018 has also been added.

Outfall 019, for reuse irrigation at Riverview Elementary School, has been added to the permit. The requirement to monitor and report the daily maximum and 30-day average flow rate for outfall 019 has also been added.

Outfall 020, for reuse irrigation at O'Callaghan Ranch, has been added to the permit. The requirement to

monitor and report the daily maximum and 30-day average flow rate for outfall 020 has also been added.

The Nitrogen, Nitrate Total (as N) parameter has been removed from the monitoring well requirements.

Due to the new naming conventions at the Nevada Division of Environmental Protection, Bureau of Water Pollution Control, the permit number has been changed from NEV2000500 to NS2000500. This change does not reflect a change in the type of permit being issued.

		I	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 ^[1]	001	Monthly	COMPOS
Solids, total suspended	30 Day Average		M&R Milligrams per Liter (mg/L)	Raw Sewage Influent ^[1]	001	Monthly	COMPOS
BOD, 5-day	Daily Maximum		M&R Milligrams per Liter (mg/L)	Raw Sewage Influent ^[1]	001	Monthly	COMPOS
BOD, 5-day	30 Day Average		M&R Milligrams per Liter (mg/L)	Raw Sewage Influent ^[1]	001	Monthly	COMPOS
Flow rate	Daily Maximum	<= 1.76 Million Gallons per Day (Mgal/d)		Raw Sewage Influent ^[1]	001	Continuous	METER
Flow rate	30 Day Average	M&R Million Gallons per Day (Mgal/d)		Raw Sewage Influent ^[1]	001	Continuous	METER

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

Notes (WWTP Discharge Limitations Table):

1. Influent line / headworks.

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

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

Notes (WWTP Discharge Limitations Table):

1. Effluent from chlorine contact basin.

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

		Discharge Lim	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 ^[1]	002	Quarterly	COMPOS
Phosphorus, total (as P)	Quarterly Average		M&R Milligrams per Liter (mg/L)	Effluent Gross ^[1]	002	Quarterly	COMPOS

Notes (WWTP Discharge Limitations Table):

1. Effluent from chlorine contact basin.

WWTP Discharge Limitations Table for Sample Location 003 (External Outfall - Rib's) To Be Reported Monthly

		Discharge Lim	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 ^[1]	003	Continuous	METER
Flow rate	30 Day Average	M&R Million Gallons per Day (Mgal/d)		Prior to Reuse ^[1]	003	Continuous	METER

Notes (WWTP Discharge Limitations Table):

1. At outfall metering station.

WWTP Discharge Limitations Table for Sample Location 004 (External Outfall - 3 J's Legado Golf Course) To Be Reported Monthly

		Discharge Lim	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 ^[1]	004	Continuous	METER
Flow rate	30 Day Average	M&R Million Gallons per Day (Mgal/d)		Prior to Reuse ^[1]	004	Continuous	METER

Notes (WWTP Discharge Limitations Table):

1. At outfall metering station.

WWTP Discharge Limitations Table for Sample Location 006 (External Outfall - South Treatment Plant) To Be Reported Monthly

		Discharge Lim	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)		Prior to Reuse ^[1]	006	Continuous	METER
Flow rate	Daily Maximum	M&R Million Gallons per Day (Mgal/d)		Prior to Reuse ^[1]	006	Continuous	METER

Notes (WWTP Discharge Limitations Table):

1. At outfall metering station.

WWTP Discharge Limitations Table for Sample Location 015 (External Outfall - Vidler Rib's) To Be Reported Monthly

		Discharge Lim	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	015	Continuous	METER
Flow rate	30 Day Average	M&R Million Gallons per Day (Mgal/d)		Prior to Reuse	015	Continuous	METER

WWTP Discharge Limitations Table for Sample Location 016 (External Outfall - South Plant Rib's) To Be Reported Monthly

		Discharge Lim	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	016	Continuous	METER
Flow rate	30 Day Average	M&R Million Gallons per Day (Mgal/d)		Prior to Reuse	016	Continuous	METER

WWTP Discharge Limitations Table for Sample Location 017 (External Outfall - North Plant Rib's) To Be Reported Monthly

		Discharge Lim	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	017	Continuous	METER
Flow rate	30 Day Average	M&R Million Gallons per Day (Mgal/d)		Prior to Reuse	017	Continuous	METER

Groundwater Monitoring Wells Table for Sample Location 007 (Monitoring Well - Mw#1) To Be Reported Quarterly

		N	Monitoring Requirements				
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Solids, total dissolved	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	007	Quarterly	DISCRT
Chloride (as Cl)	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	007	Quarterly	DISCRT
Phosphorus, total (as P)	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	007	Quarterly	DISCRT
Nitrogen, total	Quarterly Maximum		<= 10 Milligrams per Liter (mg/L)	Groundwater	007	Quarterly	DISCRT
Water level relative to mean sea level ^[1]	Quarterly Maximum	M&R Feet (ft)		Groundwater	007	Quarterly	CALCTD
Depth to water level ft below landsurface ^[2]	Quarterly Maximum	M&R Feet (ft)		Groundwater	007	Quarterly	DISCRT

Notes (Groundwater Monitoring Wells Table):

1. Groundwater elevation above mean sea level (AMSL).

Groundwater Monitoring Wells Table for Sample Location 008 (Monitoring Well - Mw#2) To Be Reported Quarterly

		N	Monitoring Requirements				
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Solids, total dissolved	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	008	Quarterly	DISCRT
Chloride (as Cl)	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	008	Quarterly	DISCRT
Phosphorus, total (as P)	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	008	Quarterly	DISCRT
Nitrogen, total	Quarterly Maximum		<= 10 Milligrams per Liter (mg/L)	Groundwater	008	Quarterly	DISCRT
Water level relative to mean sea level ^[1]	Quarterly Maximum	M&R Feet (ft)		Groundwater	008	Quarterly	CALCTD
Depth to water level ft below landsurface ^[2]	Quarterly Maximum	M&R Feet (ft)		Groundwater	008	Quarterly	DISCRT

Notes (Groundwater Monitoring Wells Table):

1. Groundwater elevation above mean sea level (AMSL).

Groundwater Monitoring Wells Table for Sample Location 009 (Monitoring Well - Mw#3) To Be Reported Quarterly

Discharge Limitations						g Requirements	
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Solids, total dissolved	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	009	Quarterly	DISCRT
Chloride (as Cl)	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	009	Quarterly	DISCRT
Phosphorus, total (as P)	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	009	Quarterly	DISCRT
Nitrogen, total	Quarterly Maximum		<= 10 Milligrams per Liter (mg/L)	Groundwater	009	Quarterly	DISCRT
Water level relative to mean sea level ^[1]	Quarterly Maximum	M&R Feet (ft)		Groundwater	009	Quarterly	CALCTD
Depth to water level ft below landsurface ^[2]	Quarterly Maximum	M&R Feet (ft)		Groundwater	009	Quarterly	DISCRT

Notes (Groundwater Monitoring Wells Table):

1. Groundwater elevation above mean sea level (AMSL).

Groundwater Monitoring Wells Table for Sample Location 010 (Monitoring Well - Mw#4) To Be Reported Quarterly

Discharge Limitations						g Requirements	
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Solids, total dissolved	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	010	Quarterly	DISCRT
Chloride (as Cl)	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	010	Quarterly	DISCRT
Phosphorus, total (as P)	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	010	Quarterly	DISCRT
Nitrogen, total	Quarterly Maximum		<= 10 Milligrams per Liter (mg/L)	Groundwater	010	Quarterly	DISCRT
Water level relative to mean sea level ^[1]	Quarterly Maximum	M&R Feet (ft)		Groundwater	010	Quarterly	CALCTD
Depth to water level ft below landsurface ^[2]	Quarterly Maximum	M&R Feet (ft)		Groundwater	010	Quarterly	DISCRT

Notes (Groundwater Monitoring Wells Table):

1. Groundwater elevation above mean sea level (AMSL).

Groundwater Monitoring Wells Table for Sample Location 011 (Monitoring Well - Mw#5) To Be Reported Quarterly

Discharge Limitations						Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type		
Nitrogen, total	Quarterly Maximum		<= 10 Milligrams per Liter (mg/L)	Groundwater	011	Quarterly	DISCRT		
Solids, total dissolved	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	011	Quarterly	DISCRT		
Chloride (as Cl)	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	011	Quarterly	DISCRT		
Phosphorus, total (as P)	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	011	Quarterly	DISCRT		
Water level relative to mean sea level ^[1]	Quarterly Maximum	M&R Feet (ft)		Groundwater	011	Quarterly	CALCTD		
Depth to water level ft below landsurface ^[2]	Quarterly Maximum	M&R Feet (ft)		Groundwater	011	Quarterly	DISCRT		

Notes (Groundwater Monitoring Wells Table):

1. Groundwater elevation above mean sea level (AMSL).

Groundwater Monitoring Wells Table for Sample Location 012 (Monitoring Well - Mw#7) To Be Reported Quarterly

Discharge Limitations						g Requirements	
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Solids, total dissolved	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	012	Quarterly	DISCRT
Chloride (as Cl)	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	012	Quarterly	DISCRT
Phosphorus, total (as P)	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	012	Quarterly	DISCRT
Nitrogen, total	Quarterly Maximum		<= 10 Milligrams per Liter (mg/L)	Groundwater	012	Quarterly	DISCRT
Water level relative to mean sea level ^[1]	Quarterly Maximum	M&R Feet (ft)		Groundwater	012	Quarterly	CALCTD
Depth to water level ft below landsurface ^[2]	Quarterly Maximum	M&R Feet (ft)		Groundwater	012	Quarterly	DISCRT

Notes (Groundwater Monitoring Wells Table):

1. Groundwater elevation above mean sea level (AMSL).

Groundwater Monitoring Wells Table for Sample Location 013 (Monitoring Well - Mw#12) To Be Reported Quarterly

Discharge Limitations						g Requirements	
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Depth to water level ft below landsurface ^[2]	Quarterly Maximum	M&R Feet (ft)		Groundwater	013	Quarterly	DISCRT
Phosphorus, total (as P)	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	013	Quarterly	DISCRT
Nitrogen, total	Quarterly Maximum		<= 10 Milligrams per Liter (mg/L)	Groundwater	013	Quarterly	DISCRT
Water level relative to mean sea level ^[1]	Quarterly Maximum	M&R Feet (ft)		Groundwater	013	Quarterly	CALCTD
Solids, total dissolved	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	013	Quarterly	DISCRT
Chloride (as Cl)	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	013	Quarterly	DISCRT

Notes (Groundwater Monitoring Wells Table):

1. Groundwater elevation above mean sea level (AMSL).

Re-use Discharge Limitations Table for Sample Location 014 (External Outfall - Rolling A Ranch) 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	014	Continuous	METER
Flow rate	30 Day Average	M&R Million Gallons per Day (Mgal/d)		Prior to Reuse	014	Continuous	METER

Re-use Discharge Limitations Table for Sample Location 018 (External Outfall - 6-Mile 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	018	Continuous	METER
Flow rate	30 Day Average	M&R Million Gallons per Day (Mgal/d)		Prior to Reuse	018	Continuous	METER

Re-use Discharge Limitations Table for Sample Location 019 (External Outfall - Riverview Elementary School) 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	019	Continuous	METER
Flow rate	30 Day Average	M&R Million Gallons per Day (Mgal/d)		Prior to Reuse	019	Continuous	METER

Re-use Discharge Limitations Table for Sample Location 020 (External Outfall - O'callaghan Ranch) 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)		Prior to Reuse	020	Continuous	METER
Flow rate	Daily Maximum	M&R Million Gallons per Day (Mgal/d)		Prior to Reuse	020	Continuous	METER

Rationale for Permit Requirements:

Effluent monitoring is required to assess the level of treatment being provided and to determine when design capacity is being approached.

Groundwater monitoring is required to ensure that operations of the facility do not degrade groundwaters or surface waters of the State.

Fecal Coliform:

2.2 CFU or MPN/100 mL - 30-Day Geometric Mean.

23 CFU or MPN/100 mL - Daily Maximum.

Special Conditions:

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

SA – Special Approvals / Conditions Table

ltem #	Description
1	The Permittee is required to electronically submit Discharge Monitoring Reports through the Bureau of Water Pollution Control's (BWPC) Nevada NetDMR system. 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.

Flow:

The daily maximum discharge is 1.76 MGD.

Discharges From Future Outfalls:

Future outfalls for this facility include the use of RIBs at both North and South plants and the future RIB site at Vidler. Future reuse irrigation sites for this permit include 6-Mile Park, Riverview Elementary School, and O'Callaghan Ranch. The reuse irrigation sites may not use reuse water until they have obtained their own permit.

Corrective Action Sites:

The WWTP is located near the Carson River Mercury Clean-up area.

Wellhead Protection Program:

The WWTP is located within a 2 year wellhead protection area.

The WWTP is located within a Source Water Protection Area; however, the proposed discharge will occur downgradient and therefore will not adversely affect any source water.

Schedule of Compliance:

SOC – Schedule of Compliance 1

ltem #	Description	Due Date
1	The permittee shall submit a revised Operation and Maintenance (O&M) Manual to the Division. The O&M Manual shall be prepared in accordance with guidance document WTS-2: <i>Minimum Information Required for an Operation and Maintenance Manual for a Wastewater Treatment Plant</i> . If there are minor revisions (e.g. contact changes) the Permittee shall submit the changes in writing to the Division. If there are no changes, the Permittee shall submit a letter stating there are no changes.	3/1/2017
2	The Permittee shall submit an updated Effluent Management Plan (EMP), that has been wet-stamped by a Nevada Professional Engineer that follows the requirements listed in Guidance Document WTS-1B: <i>General Design Criteria for an Effluent Management Plan.</i> If there are minor revisions (e.g. contact changes) the Permittee shall submit the changes in writing to the Division. If there are no changes, the Permittee shall submit a letter stating there are no changes.	3/1/2017
3	The Permittee shall submit final design plans, wet-stamped by a Nevada Professional Engineer, of the new solids dewatering facility at least 60 days prior to the start of construction or by 7/1/2017.	7/1/2017
4	The Permittee shall complete the construction, and begin operation, of the solids dewatering facility.	12/1/2018

Deliverable Schedule:

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

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

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 and the Mason Valley News** 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. **11/14/2016**, 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:Bonnie HartleyDate:10/7/2016Title:Environmental Scientist