



Central Valley Regional Water Quality Control Board

27 April 2021

Brian Leung
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NOTICE OF APPLICABILITY

**GENERAL WASTE DISCHARGE REQUIREMENTS FOR SMALL DOMESTIC
WASTEWATER TREATMENT SYSTEMS ORDER WQ 2014-0153-DWQ
FOR
STOCKTON VERDE MOBILE HOME PARK, LLC
STOCKTON VERDE MOBILE HOME PARK WWTF
SAN JOAQUIN COUNTY**

Stockton Verde Mobile Home Park (MHP), LLC submitted a Report of Waste Discharge (RWD) dated 13 June 2020 describing the Stockton Verde MHP Wastewater Treatment Facility (WWTF) in San Joaquin County. Stockton Verde MHP WWTF (hereafter Facility) is owned and operated by Stockton Verde MHP, LLC (hereafter Discharger). The WWTF provides treatment and disposal service for domestic wastewater generated from approximately 250 mobile homes. Based on information provided in the RWD, the wastewater treatment system and discharge are consistent with the requirements of the State Water Resources Control Board (State Water Board) *General Waste Discharge Requirements for Small Domestic Wastewater Treatment Systems, Order WQ 2014-0153-DWQ* (General Order). You are hereby assigned Order WQ 2014-0153-DWQ-R5356 for the discharge. A copy of the Waiver is enclosed and also available at the [State Water Boards Adopted Orders webpage, General Order 2014-0153-DWQ](https://www.waterboards.ca.gov/centralvalley/board_decisions/adopted_orders/general_orders/2014-0153-dwq_noas/) (https://www.waterboards.ca.gov/centralvalley/board_decisions/adopted_orders/general_orders/2014-0153-dwq_noas/).

You should familiarize yourself with the entire General Order and its attachments, which describe mandatory discharge and monitoring requirements. The General Order contains operational and reporting requirements by wastewater system type. Sampling, monitoring, and reporting requirements applicable to your treatment and disposal methods must be completed in accordance with the appropriate treatment system sections of the General Order and the attached Monitoring and Reporting Program

KARL E. LONGLEY SCD, P.E., CHAIR | PATRICK PULUPA, ESQ., EXECUTIVE OFFICER

11020 Sun Center Drive #200, Rancho Cordova, CA 95670 | www.waterboards.ca.gov/centralvalley

(MRP) 2014-0153-DWQ-R5356. The Discharger is responsible for all the applicable requirements that exist in the General Order and this NOA.

FACILITY AND DISCHARGE DESCRIPTION

The Facility is located at 4900 N. Highway 99 in Stockton, San Joaquin County as shown on Attachment A, which is attached hereto (Assessor Parcel Number 087-040-150-000). The Facility is located in an area without a regional wastewater collection system; therefore, wastewater is collected and treated on-site. The site plan is shown on Attachment B, which is attached hereto and is made part of this NOA by reference.

The WWTF was recently constructed, replacing an old treatment system permitted through San Joaquin County. The new system is not yet operational and is expected to be operating by May 2021. The new system consists of a gravity collection system, a lift station (LS-2), and an extended aeration treatment system. Average daily influent flow is 23,000 gallons per day (gpd) with peak flows up to 28,000 gpd. Raw wastewater flows into the LS-2 via gravity and is pumped through a screen prior to entering the treatment plant.

The new WWTF has a design capacity of 35,000 gpd and is comprised of a biological nutrient removal (BNR) treatment system with membrane bio-reactors (MBRs), a sludge press, and a backup generator. The biological treatment system consists of anoxic, aerobic, and MBRs, as shown on Attachment B. The MBRs serve as physical separators and secondary clarifiers while providing the anoxic bioreactors with highly concentrated nitrified mixed liquor (ML). A portion of this ML is waste activated sludge (WAS) and a portion will be recycled back to the anoxic basin. The wastewater will be disinfected with a UV system and then pumped directly to the discharge point for subsurface disposal. Expected effluent quality is summarized below.

Table 1. Effluent Quality

| Constituent | Influent Concentrations (mg/L) | Effluent Concentrations (mg/L) |
|--------------------|---|---|
| BOD ₅ | 300 | 2 |
| TSS | 400 | 1 |
| Nitrate | not available | 0 |
| Total Nitrogen | 60 | 2.1 |

WAS will be pumped from the MBR tank to a screw press for processing, and the resulting dry cake will be hauled to a local landfill for final disposal.

Treated wastewater is discharged to 40 existing dry wells, 18 feet deep and filled with gravel (the previous system also discharged to these wells). Based on groundwater monitoring data collected from the neighboring MHP (Shadow Lake MHP), depths to groundwater range from 72 to 74 feet below ground surface (see Attachment B for well locations). Analytical data collected from the three monitoring wells indicate groundwater quality is poor with respect to nitrate as nitrogen. In groundwater samples collected in 2017, nitrate as nitrogen concentrations ranged from 13 to 50 milligrams per

liter (mg/L), greater than the Primary Maximum Contaminant Level of 10 mg/L. A summary of analytical data reported in the three monitoring wells are shown below. It should be noted that these wells are not owned by the Discharger and are located on the adjacent Shadow Lake MHP property. The summary table below is provided to give a general overview of the quality of shallow groundwater in the area. The well locations are shown on Attachment B.

Table 2. Groundwater Quality (Shadow Lake MHP)

| Constituents | MW-1 | | MW-2 | | MW-3 | |
|---|-------------|--------|-------------|--------|-------------|--------|
| | Sample Date | | Sample Date | | Sample Date | |
| | 3/2017 | 6/2017 | 3/2017 | 6/2017 | 3/2017 | 6/2017 |
| TDS (mg/L) | 550 | 705 | 600 | 665 | 450 | 530 |
| Nitrate Nitrogen (mg/L) | 19 | 29 | 27 | 50 | 13 | 15 |
| Total Coliform (MPN/100mL) | <2.0 | 27 | <2.0 | 34 | 4 | 2 |
| pH (standard units) | 7.1 | 7.1 | 6.7 | 6.8 | 6.6 | 6.7 |
| Notes: Table source: Shadow Lake Mobile Home Park Order WQ 2014-0153-DWQ-R5263, adopted on 28 March 2018. As noted on the table included in Order WQ 2014-0153-DWQ-R5263, "groundwater quality from 2017 is considered representative of groundwater conditions beneath the mobile home park", which is referring to the Shadow Lake MHP. | | | | | | |

SITE-SPECIFIC REQUIREMENTS AND EFFLUENT LIMITS

Note that the General Order contains prohibitions and specifications that apply to all wastewater treatment systems as well as those that only apply to specific treatment and/or disposal systems. The specific requirements and effluent limits for your treatment system are summarized below.

The wastewater treatment operator must be certified and familiar with the requirements contained in the General Order, this NOA, and the MRP.

Requirements by Wastewater System Type, Section B of General Order

This section applies in its entirety to the Stockton Verde MHP WWTF with the following site-specific requirements.

B.1 All Wastewater Systems

- a. Influent flow limits (Section B.1.a of General Order):

Table 3. Influent flow limits

| Treatment Unit | Flow Limit as Monthly Average |
|----------------|-------------------------------|
| Influent | 35,000 gpd |

- b. Wastewater system setbacks (Section B.1.I, Table 3 of General Order).

Table 4. Wastewater system setback requirements

| Equipment or Activity | Domestic Well | Flowing Stream | Ephemeral Stream Drainage | Property Line | Lake or Reservoir |
|--|---------------|----------------|---------------------------|---------------|-------------------|
| Seepage Pit | 150 ft. | 150 ft. | 50 ft. | 8 ft. | 200 ft. |
| Septic Tank, Treatment System, & Collection System | 50 ft. | 50 ft. | 50 ft. | 5 ft. | 500 ft. |

B.3 Aerobic Treatment Units

The WWTF utilizes an aerobic treatment unit; therefore Section B.3 of

B.4 Activated Sludge Systems

The WWTF utilizes an activated sludge system; therefore Section B.4 of General Order applies in its entirety.

B.6 Subsurface Disposal Systems

The WWTF utilizes a subsurface disposal system; therefore Section B.6 of General Order applies in its entirety.

Effluent Limitations, Section D of General Order

This section applies in its entirety to the Stockton Verde MHP WWTF and shall include the following site-specific limitations. The limits presented below are average monthly limits unless otherwise specified.

Table 5. Effluent Limitations

| Constituent | Limit (mg/L) |
|----------------|--|
| BOD | 30 (monthly average), 45 (7-day average) |
| TSS | 30 (monthly average), 45 (7-day average) |
| Total Nitrogen | 10 |

Technical Report Preparation Requirements, Section E.1 of General Order

The following technical reports shall be submitted as described below:

1. By **1 October 2021**, the Discharger shall submit a *Spill Prevention and Emergency Response Plan* (Response Plan) consistent with the requirements of General Order Provision E.1.a.
2. By **1 October 2021**, the Discharger shall submit a *Sampling and Analysis Plan* consistent with the requirements of General Order Provision E.1.b.
3. By **1 October 2021**, the Discharger shall submit a Sludge Management Plan consistent with the requirements of General Order Provision E.1.c.

MONITORING AND REPORTING

The Discharger shall comply with MRP 2014-0153-DWQ-R5356, which is attached hereto and made part of this NOA by reference.

ENFORCEMENT

Please review this NOA carefully to ensure that it completely and accurately reflects the discharge. Discharge of wastes other than those described in this NOA is prohibited.

Prior to allowing changes to the wastewater strength or generation rate, or to the method of waste disposal, you must contact the Central Valley Regional Water Board to determine if submittal of an RWD is required.

Stockton Verde MHP will generate the waste subject to the terms and conditions of WQ 2014-0153-DWQ-R5356 and will maintain exclusive control over the discharge. As such, Stockton Verde MHP is primarily responsible for compliance with this NOA, MRP, and General Order, with all attachments. Failure to comply with the requirements in the General Order or this NOA could result in an enforcement action as authorized by provisions of the California Water Code.

ANNUAL FEES

The annual fee is based on the discharge's threat to water quality and treatment system complexity rating of 3-B. The fee is due and payable on an annual basis until coverage under the General Order is formally rescinded. Please note that the annual fees are reviewed each year and may change. You must provide written notice if and when the wastewater discharge ceases, so that we can terminate coverage under the General Order and no longer bill you.

DOCUMENT SUBMITTAL

All monitoring reports and other correspondence should be converted to searchable Portable Document Format (PDF) and submitted electronically. Documents that are less than 50 MB should be emailed to: centralvalleysacramento@waterboards.ca.gov.

To ensure that your submittal is routed to the appropriate staff person, the following information should be included in the body of the email or any documentation submitted to the mailing address for this office:

Facility Name: Stockton Verde MHP WWTF, San Joaquin County
Program: Non-15 Compliance
Order: WQ 2014-0153-DWQ-R5356
CIWQS Place ID: 872049

Documents that are 50 MB or larger should be transferred to a CD, DVD, or flash drive and mailed to:

Central Valley Regional Water Quality Control Board
ECM Mailroom
11020 Sun Center Drive, Suite 200
Rancho Cordova, CA 95670

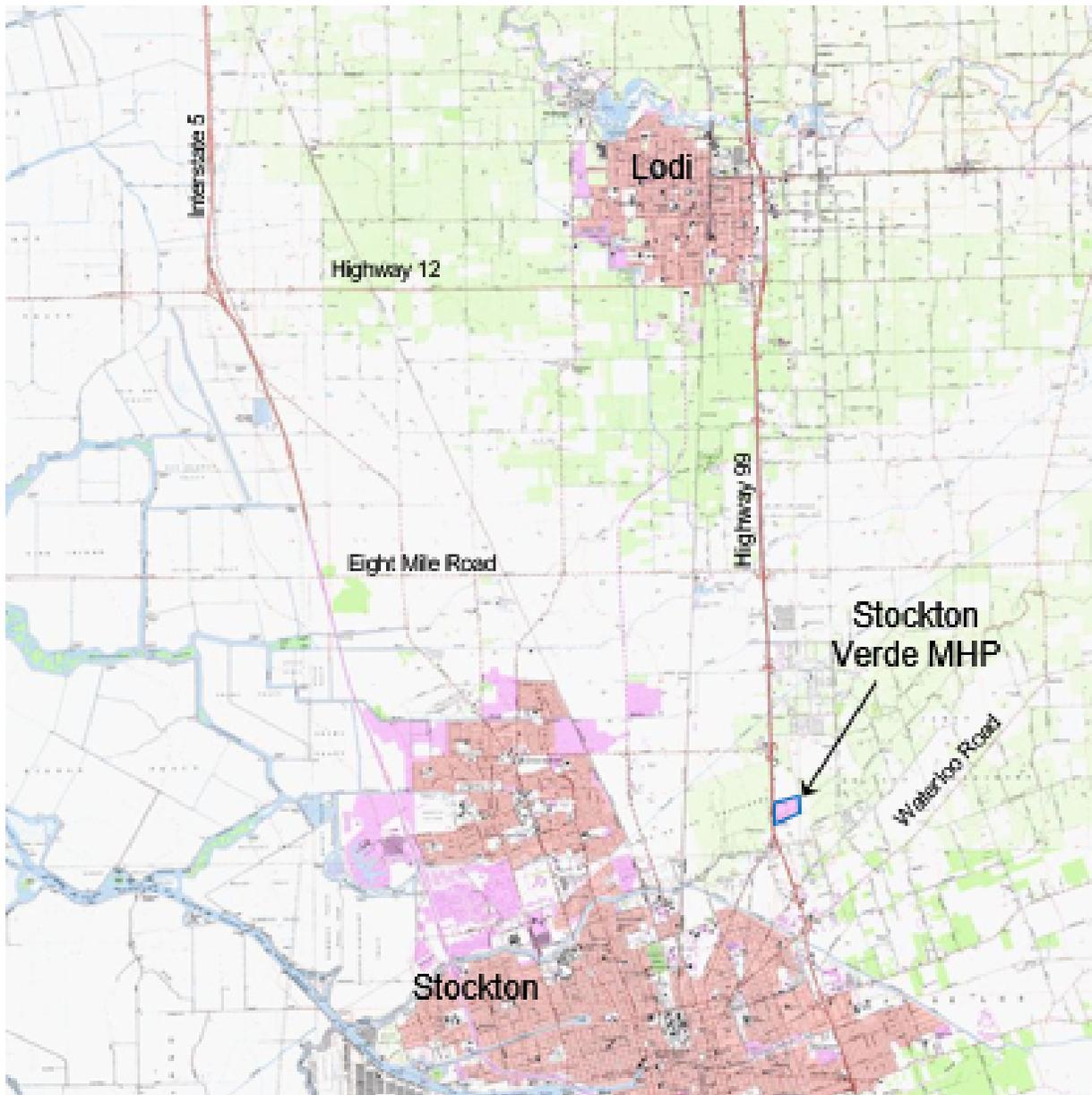
Now that the Notice of Applicability has been issued, the Board's Compliance and Enforcement section will take over management of your case. Brendan Kenny is your new point of contact for any questions about the Waiver. If you find it necessary to make a change to your permitted operations, Brendan will direct you to the appropriate Permitting staff. You may contact him at brendan.kenny@waterboards.ca.gov.



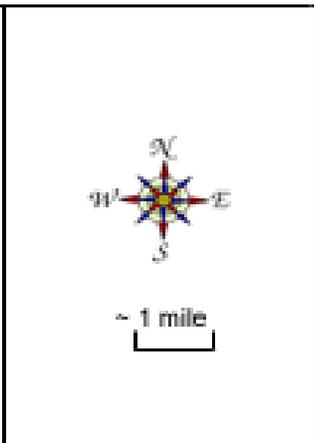
for Patrick Pulupa
Executive Officer

Enclosure: Water Quality Order WQ 2014-0153-DWQ
Attachment A, Site Location Map
Attachment B, Site Plan
Attachment C, Wastewater Treatment System Schematic
Monitoring and Reporting Program 2014-0153-DWQ-R5356

cc w/out enc: State Water Resources Control Board, Sacramento
Shih, Steven, San Joaquin County Environmental Health Department,
Stockton



Source:
U.S.G.S
Topographic Map



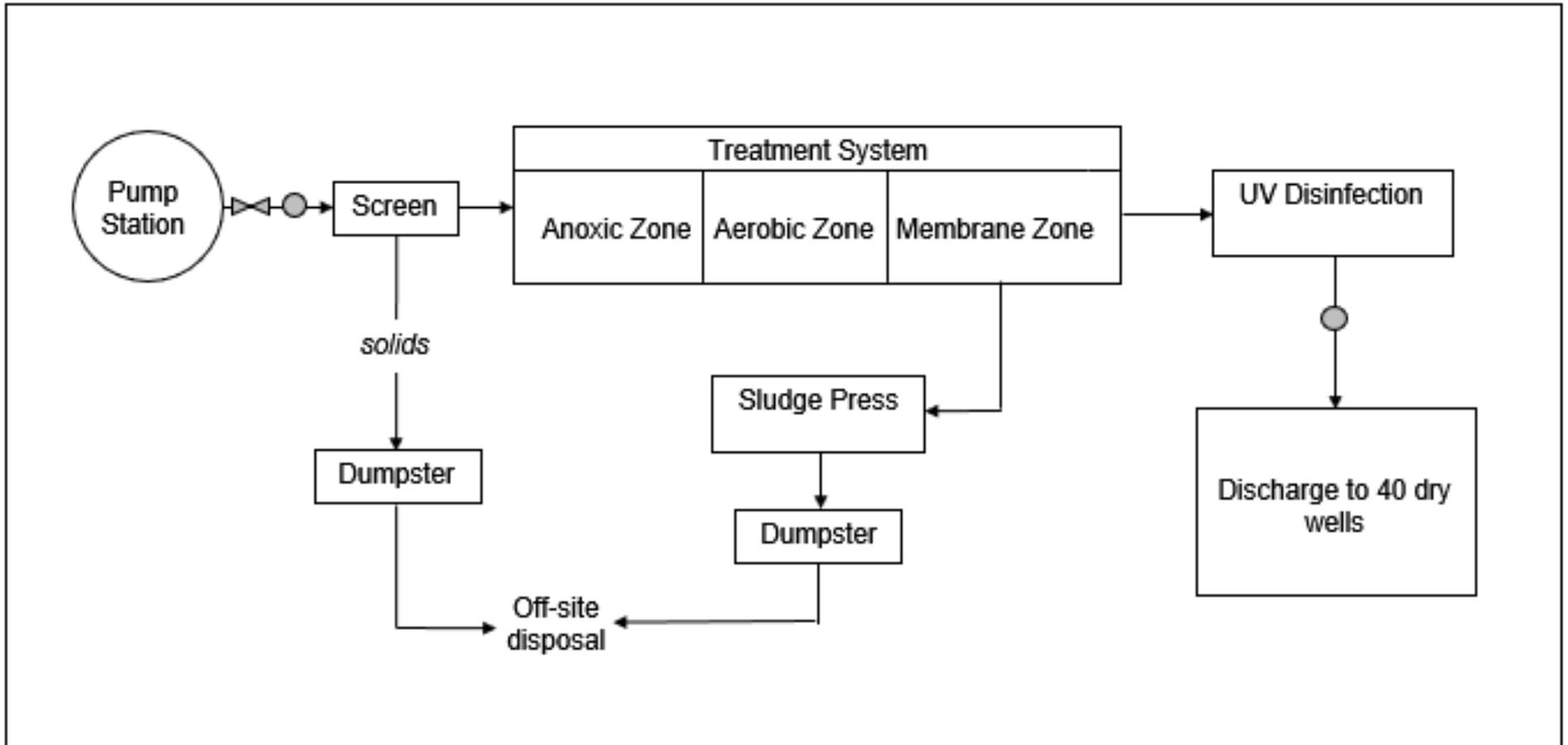
SITE LOCATION MAP
STOCKTON VERDE MHP WWTF
SAN JOAQUIN COUNTY



Source:
Google Earth, 2017
and RWD, 2017



SITE PLAN
STOCKTON VERDE MHP MOBILE
HOME PARK
SAN JOAQUIN COUNTY



LEGEND

⊗ Flow Meter

● Sample Location

Figure not to scale
Figure Source: 2020 RWD

**WASTEWATER TREATMENT SYSTEM
SCHEMATIC**

STOCKTON VERDE MHP WWTF

SAN JOAQUIN COUNTY



Central Valley Regional Water Quality Control Board

TO: Robert Busby
Supervising Engineering Geologist
FROM: Scott Armstrong
Senior Engineering Geologist
DATE: 30 March 2021

APPLICABILITY OF COVERAGE UNDER STATE WATER RESOURCES CONTROL BOARD ORDER WQ 2014-0153-DWQ; GENERAL WASTE DISCHARGE REQUIREMENTS FOR SMALL DOMESTIC WASTEWATER TREATMENT SYSTEMS; STOCKTON VERDE MOBILE HOME PARK, LLC., STOCKTON VERDE MOBILE HOME PARK WWTF, SAN JOAQUIN COUNTY

On 13 June 2020, Stockton Verde Mobile Home Park (MHP), LLC (hereafter Discharger) submitted a Report of Waste Discharge requesting to obtain coverage under the State Water Resources Control Board (State Water Board) General Waste Discharge Requirements for Small Domestic Wastewater Treatment Systems, Order WQ 2014-0153-DWQ (General Order). This memorandum provides a summary of the applicability of this discharge for coverage under the General Order. This Facility recently replaced the wastewater treatment system which was previously permitted through San Joaquin County. This NOA is permitting the new treatment system.

FACILITY AND DISCHARGE DESCRIPTION

The WWTF is located at 4900 N. Highway 99 in Stockton, San Joaquin County (Assessor Parcel Number 087-040-150-000). The WWTF is owned and operated by the Discharger. The WWTF provides wastewater treatment and disposal service for the Stockton Verde MHP, which consists of approximately 250 mobile homes.

The recently constructed WWTF consists of a gravity collection system, a lift station (LS-2), and an extended aeration treatment system. Average daily influent flow is 23,000 gallons per day (gpd) with peak flows up to 28,000 gpd. Raw wastewater will flow into the LS-2 via gravity and pumped through a screen prior to entering the treatment plant.

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while providing the anoxic bioreactors with highly concentrated nitrified mixed liquor (ML). A portion of this ML is waste activated sludge (WAS) and a portion will be recycled back to the anoxic basin. The wastewater will be disinfected with a UV system and then pumped directly to the discharge point for subsurface disposal.

Effluent concentrations of treated wastewater are 2 mg/L of BOD; 1 mg/L of TSS; non-detect for nitrate; and 2.1 mg/l for total nitrogen.

GROUNDWATER CONCERNS

Treated wastewater is discharged to 40 dry wells, constructed to 18 feet deep and filled with gravel. Groundwater in the area is approximately 72 to 74 feet below ground surface. Based on shallow groundwater data collected from the adjacent MHP, groundwater is considered poor quality with respect to nitrate (concentrations are greater than 10 mg/L).

MONITORING REQUIREMENTS

Monitoring requirements included in the following sections from Attachment C of the General Order are appropriate for this discharge and include Aerobic Treatment Unit Monitoring; Activated Sludge Monitoring, Influent and Effluent Monitoring, Disinfection System Monitoring, and Solids Disposal Monitoring.

SALT AND NITRATE CONTROL PROGRAMS

The Central Valley Water Board adopted Basin Plan amendments incorporating new programs for addressing ongoing salt and nitrate accumulation in the Central Valley at its 31 May 2018 Board Meeting. The Basin Plan amendments were conditionally approved by the State Water Board on 16 October 2019 (Resolution 2019-0057) and by the Office of Administrative Law on 15 January 2020 (OAL Matter No. 2019-1203-03).

For nitrate, dischargers that are unable to comply with stringent nitrate requirements will be required to take on alternate compliance approaches that involve providing replacement drinking water to persons whose drinking water is affected by nitrates. Dischargers may comply with the new nitrate program either individually or collectively with other dischargers. For the Nitrate Control Program, the facility falls within Non-Prioritized Groundwater Basins. Notices to Comply for Non-Prioritized Basins will be issued within two to four years after the effective date of the Nitrate Control Program.

For salinity, dischargers that are unable to comply with stringent salinity requirements will instead need to meet performance-based requirements and participate in a basin-wide effort to develop a long-term salinity strategy for the Central Valley. Dischargers received a Notice to Comply with instructions and obligations for the Salt Control Program within one year of 17 January 2020, the effective date of the amendments. Upon receipt of the Notice to Comply, the discharger had no more than six months to

inform the Central Valley Water Board of their choice between Option 1 (Conservative Option for Salt Permitting) or Option 2 (Alternative Option for Salt Permitting).

As these strategies are implemented, the Central Valley Water Board may find it necessary to modify the requirements of this Order to ensure the goals of the Salt and Nitrate Control Programs are met. This order may be amended or modified to incorporate newly applicable requirements. More information regarding this regulatory planning process can be found on the [Central Valley Water Board CV-SALTS website](https://www.waterboards.ca.gov/centralvalley/water_issues/salinity) (https://www.waterboards.ca.gov/centralvalley/water_issues/salinity).