



Central Valley Regional Water Quality Control Board

14 April 2021

Meng Moua
County of Fresno Public Works and Planning
2220 Tulare St., 6th floor
Fresno, CA 93721

CERTIFIED MAIL
7019 2970 0001 5201 5595

NOTICE OF APPLICABILITY (NOA); STATE WATER RESOURCES CONTROL BOARD ORDER WQ 2016-0068-DDW; WATER RECLAMATION REQUIREMENTS FOR RECYCLED WATER USE; COUNTY OF FRESNO, DEPARTMENT OF PUBLIC WORKS AND PLANNING; MONTE VERDI ESTATES (CSA 44D) WASTEWATER TREATMENT RECLAMATION PROJECT; FRESNO COUNTY

On 6 February 2020, the Central Valley Regional Water Quality Control Board (Central Valley Water Board) received a Title 22 Engineering Report, prepared by Provost and Pritchard Consulting Group, on behalf of the County of Fresno, Department of Public Works and Planning (Administrator) for Monte Verdi Estates (County Service Area [CSA] 44D) Reclamation Project. On 15 May 2020, the Central Valley Water Board received an updated version of the Title 22 Engineering Report. On 25 June 2020, the Title 22 Engineering Report was conditionally approved by the State Water Resources Control Board, Division of Drinking Water (DDW). On 30 July 2020, the Central Valley Water Board received a Notice of Intent (NOI) and Form 200 from the Administrator requesting coverage under State Water Board's Order 2016-0068-DDW, *Water Reclamation Requirements for Recycled Water Use* (General Order). On 12 March 2021, the Central Valley Water Board received an updated version of the Title 22 Engineering Report.

On 6 February 2020, Central Valley Water Board staff also received a Report of Waste Discharge (RWD) from Fresno County to enroll the Facility under State Water Board Water Quality Order 2014-0153-DWQ, *General Waste Discharge Requirements for Small Domestic Wastewater Treatment Systems* (Small Domestic General Order). The Discharger was issued NOA 2014-0153-DWQ-R5344 and corresponding MRP on 14 April 2021. The NOA and MRP 2014-0153-DWQ-R5344 becomes applicable after rescission of the Facility's current Waste Discharge Requirements (WDRs) Order 92-203 (tentatively planned for the June 2021 Central Valley Water Board Meeting).

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

1685 E Street, Fresno, CA 93706 | www.waterboards.ca.gov/centralvalley

The Administrator owns and operates the WWTF. The Monte Verdi Estates Homeowners Association (HOA) will be responsible for the distribution and management of the recycled water from the WWTF to the Use Area. The Use Area consists of 12.7 acres designated for landscape irrigation.

On 7 June 2016, the State Water Resources Control Board adopted the General Order to regulate the use of recycled water for all Title 22 uses except groundwater recharge. In addition, the General Order delegates the responsibility of administering water recycling programs to a designated Administrator to the fullest extent possible. Based on the information in the Title 22 Engineering Report, the proposed water recycling project satisfies the general and specific conditions of the General Order. Therefore, today's letter serves as formal notice that Order WQ-2016-0068-DDW is applicable to the site and discharge described below. Fresno County, Department of Public Works and Planning will act as the Administrator of the Recycled Water Program for this discharge. You are hereby assigned **WQ-2016-0068-DDW-R5018** for this discharge. Please include this Order number in all future correspondence related to this discharge.

The reclamation of disinfected tertiary recycled water at the Use Areas may begin after the chlorine analyzer at the CT compliance point is installed, DDW has inspected the installation of the chlorine analyzer, and DDW has provided a written statement of their approval with no further conditions.

PROJECT DESCRIPTION

The WWTF upgrades completed in August 2019 include membrane bioreactors (MBR) with chlorine disinfection. The upgrades will allow the WWTF to produce disinfected tertiary recycled water. The disinfected tertiary recycled water will be used for landscape irrigation on designated common landscape areas at the Monte Verdi Estates subdivision (see Attachment B for a Site Plan Map). At times of low irrigation water demand and occasional rainfall (i.e., the winter months), disinfected tertiary-treated wastewater will be discharged to a leach field. The upgraded WWTF has a design capacity of 39,000 gpd (monthly average) and the leach field has a design disposal capacity of 32,500 gpd.

The disinfected tertiary recycled water will be used to irrigate, via sprinklers and drip irrigation, 12.7 acres of landscape (e.g., grass, trees, and bushes) that are accessible to the public. During the summer months, the Use Areas' irrigation demand will exceed the wastewater flow from the Facility. Therefore, Monte Verde Estates HOA will add potable water from its potable water supply wells (Well #1 and Well #2 in Attachment B) to the effluent/reclaimed water storage tank as needed to satisfy the irrigation demand. Separation between the potable water and the disinfected tertiary recycled water will be maintained by a 1.5-foot air gap where the potable water feeds into the effluent/reclaimed water storage tank.

RECYCLED WATER APPLICATION

Fresno Public Works proposes to administer a recycled water use program for disinfected tertiary recycled water in which Fresno Public Works will serve as the sole Producer and the sole Administrator. HOA will be the sole User. The County of Fresno Department of Public Works, as the Administrator, will be responsible for the administration of the Recycled Water Program authorized pursuant to this General Order, including the requirements of Title 22.

DIVISION OF DRINKING WATER (DDW) CONSIDERATIONS AND REQUIREMENTS

The Administrator submitted a Title 22 Engineering Report dated 5 February 2020 and a revised Title 22 Engineering Report dated 14 May 2020 to DDW for review. On 25 June 2020, DDW issued a conditional approval email. DDW's condition of approval is that the Administrator install a chlorine analyzer at the CT compliance point and notify DDW once the analyzer is complete for DDW to inspect the Facility. If residual chlorine is insufficient at the end of the effluent pipe, effluent will be automatically diverted to the community's leach field.

WATER RECYCLING USE REQUIREMENTS

1. The production, distribution, and use of recycled water shall be managed in accordance with the Title 22 Engineering Report approved by DDW and this NOA.
2. Application of recycled water shall be limited to the uses described in the Title 22 Engineering Report approved by DDW and this NOA.
3. The use of recycled water shall not cause pollution or nuisance, as defined by Water Code section 13050.
4. The recycled water shall be disinfected tertiary recycled water as defined by Title 22, section 60301.230.
5. The Administrator shall promptly notify the Central Valley Water Board of any recycled water spills or unauthorized uses.
6. All use areas where recycled water is used that are accessible to the public shall be posted with signs that are visible to the public, in a size no less than 4 inches by 8 inches wide, that include the following wording, "RECYCLED WATER – DO NOT DRINK."
7. Permanent above-ground piping must be clearly identified as recycled water with either purple pipe material or purple paint. Temporary above-ground piping for recycled water must also have proper coloring or labeling for easy identification.

GENERAL INFORMATION AND REQUIREMENTS

The Administrator shall comply with the Specifications, Water Recycling Administration Requirements, and General Provisions of the General Order. Please review this NOA carefully to ensure that it completely and accurately reflects the proposed Recycled

Water Program. If the Administrator violates the terms or conditions, the Central Valley Water Board may take enforcement action, including the assessment of an administrative civil liability. Failure to abide by the conditions of the General Order, including MRP WQ-2016-0068-DDW-R5018, and this letter authorizing applicability could result in enforcement actions, as authorized by provision of the California Water Code.

The required annual fee specified in the annual billing from the State Water Resources Control Board shall be paid until this NOA is officially terminated. The Administrator must submit in writing a Notice of Termination once the Recycled Water Program has ended.

DOCUMENT SUBMITTALS

All regulatory documents, submissions, materials, data, monitoring reports, and correspondence should be converted to a searchable Portable Document Format (PDF) and submitted electronically. Documents that are less than 50MB should be emailed to: centralvalleyfresno@waterboards.ca.gov. Documents that are 50MB or larger should be transferred to a disk and mailed to the Central Valley Water Board office at 1685 E Street, Fresno, CA 93706. To ensure that your submittals are routed to the appropriate staff, the following information block should be included in any email used to transmit documents to this office:

Program: Non-15,
Place ID: 8711110,
Facility Name: Fresno County Monte Verde Estates (CSA 44D) WWTF
Order: WQ-2016-0068-DDW-R5018.

In order to conserve paper and reduce mailing costs, a paper copy of General Order WQO 2016-0068-DWQ has been sent only to the Administrator. Others are advised that the [General Order](#) is available on the State Water Board's website (http://www.waterboards.ca.gov/board_decisions/adopted_orders/water_quality/2016/wqo2016_0068_ddw.pdf).

All documents, including responses to inspections and written notifications, submitted to comply with this NOA shall be directed, via the paperless office system, to the Compliance and Enforcement Unit, attention to Russell Walls. Mr. Walls can be reached at (559) 488-4392 or Russell.Walls@waterboards.ca.gov. Questions regarding the permitting aspects of the NOA, and notification for termination of coverage under the General Order, shall be directed, via the paperless office system, to the WDR Permitting Unit, attention Jeff Robins. Jeff Robins can be reached at (559) 445-5976 or by email at Jeff.Robins@waterboards.ca.gov.

Any person aggrieved by this action of the Central Valley Water Board may petition the State Water Resources Control Board to review the action in accordance with California Water Code section 13320 and California Code of Regulations, title 23, sections 2050 and following. The State Water Resources Control Board must receive the petition by

5:00 p.m., 30 days after the date of this NOA, except that if the thirtieth day following the date of this Order falls on a Saturday, Sunday, or state holiday, the petition must be received by the State Water Resources Control Board by 5:00 p.m. on the next business day. Copies of the law and regulations applicable to filing petitions may be found on the internet at [Copies of the laws and regulations applicable to filing petitions](https://www.waterboards.ca.gov/public_notices/petitions/water_quality) (https://www.waterboards.ca.gov/public_notices/petitions/water_quality) or will be provided upon request.

If you have any questions regarding this matter, please contact Jeff Robins by phone at (559) 445-5976 or by email at Jeff.Robins@waterboards.ca.gov.

Original Signed by Clay L. Rodgers for:
Patrick Pulupa
Executive Officer

:

Attachments:

- Attachment A – Site Location Map
- Attachment B – Site Plan Map

Enclosures:

- Monitoring and Reporting Program WQ-2016-0068-DDW-R5018
- Staff Review Memorandum for Fresno County Monte Verde Estates (CSA 44D) Reclamation Project
- State Water Resources Control Board Order WQ WQ-2016-0068-DDW (Discharger only)

cc's:

- David Lancaster, State Water Resources Control Board, OCC, Sacramento (via email)
- Laurel Warddrip, State Water Resources Control Board, DWQ, Sacramento (via email)
- Russell Walls, Central Valley Water Board, Fresno (via email)
- Sudarshan Poudyal, State Water Resources Control Board, DDW, Fresno (via email)
- Jose Robledo, State Water Resources Control Board, DDW, Fresno (via email)
- Sebastian Artal, Fresno County Dept. Of Public Works and Planning (via email)
- Richard Singleton, Fresno County Dept. of Public Works and Planning (via email)
- Steven White, Fresno County Dept. of Public Works and Planning (via email)
- Debbie Webster, CVCWA (via email)
- Zheng “Jerry” Teng, Provost and Pritchard Consulting Group (via email)



ATTACHMENT A – SITE LOCATION MAP

NOTICE OF APPLICABILITY 2016-0068-DDW-R5018

FOR

FRESNO COUNTY, DEPARTMENT OF PUBLIC WORKS AND PLANNING;

MONTE VERDI ESTATES (CSA 44D) RECLAMATION PROJECT

FRESNO COUNTY

Drawing Reference: Google Earth



ATTACHMENT B – SITE PLAN MAP
NOTICE OF APPLICABILITY 2016-0068-DDW-R5018
FOR
FRESNO COUNTY DEPARTMENT OF PUBLIC WORKS AND PLANNING;
MONTE VERDI ESTATES (CSA 44D) RECLAMATION PROJECT
FRESNO COUNTY
Drawing Reference: Google Earth

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION**

**MONITORING AND REPORTING PROGRAM NO. WQ-2016-0068-DDW-R5018
FOR
COUNTY OF FRESNO, DEPARTMENT OF PUBLIC WORKS AND PLANNING
MONTE VERDI ESTATES (CSA 44D) RECLAMATION PROJECT
FRESNO COUNTY**

This Monitoring and Reporting Program (MRP) describes requirements for monitoring a recycled water system. This MRP is issued pursuant to Water Code section 13267. The County of Fresno, Department of Public Works and Planning (Administrator) shall not implement any changes to this MRP unless and until a revised MRP is issued by the California Water Quality Control Board, Central Valley Region (Central Valley Water Board) or Executive Officer.

The Administrator has applied for and received coverage for Monte Verdi Estates (CSA 44D) Reclamation Project (Reclamation Project) that is subject to the Notice of Applicability (NOA) of Water Quality Order 2016-0068-DDW (General Order). The reports are necessary to ensure that the Administrator complies with the NOA and General Order. Pursuant to California Water Code section 13267, the Administrator shall implement this MRP and shall submit the monitoring reports described herein.

All samples shall be representative of the volume and nature of the discharge or matrix of material sampled. The name of the sampler, sample type (grab or composite), time, date, location, bottle type, and any preservative used for each sample shall be recorded on the sample chain of custody form. The chain of custody form must also contain all custody information including date, time, and to whom samples were relinquished. If composite samples are collected, the basis for sampling (time or flow weighted) shall be approved by Central Valley Water Board staff.

Field test instruments (such as those used to test pH, dissolved oxygen, and electrical conductivity) may be used provided that they are used by a State Water Resources Control Board, Environmental Laboratory Accreditation Program (ELAP) certified laboratory, or:

1. The user is trained in proper use and maintenance of the instruments;
2. The instruments are field calibrated prior to monitoring events at the frequency recommended by the manufacturer;
3. Instruments are serviced and/or calibrated by the manufacturer at the recommended frequency; and
4. Field calibration reports are maintained and available for at least three years.

Monitoring requirements listed below may duplicate existing requirements under other orders including WDRs or waivers of WDRs that regulate agricultural discharges from irrigated lands. Duplication of sampling and monitoring activities are not required if the monitoring activity satisfies the requirements of this General Order. Collecting

composite samples is acceptable in most cases. The facility may continue using existing sampling collection equipment that is consistent with the applicable facility order. However, due to short sample holding times, bacteriological samples collected to verify disinfection effectiveness must be grab samples. In addition to submitting the results under another order, the results shall be submitted in the reports required by this General Order.

USE AREA MONITORING

The Administrator shall monitor use area(s) at a frequency appropriate to determine compliance with this General Order and the Administrator's recycled water use program requirements. An Administrator may assign monitoring responsibilities to a User as part the Water Recycling Use Permit program. The Administrator retains responsibility to ensure the data is collected, as well as prepared and submit the annual report.

The following shall be recorded for each user with additional reporting for use areas as appropriate. The frequency of use area inspections shall be based on the complexity and risk of each use area. Use areas may be aggregated to combine acreage for calculations or observation purposes. Use area monitoring is summarized in Table 1 below.

Table 1 – Use Area Monitoring Requirements

Parameter	Units	Sample Type	Sampling Frequency	Reporting Frequency
Recycled Water User	---	---	---	Annually
Recycled Water Flow	gpd	Meter (see 1 below)	Daily	Annually
Acreage Applied (see 2 below)	acres	Calculated	---	Annually
Application Rate	inches/ acre/year	Calculated	---	Annually
Local Rainfall	Inches	Weather Station	Monthly	Quarterly
Soil Saturation/Ponding	---	Observation	Quarterly	Annually
Soil Erosion		Observation	Quarterly	Annually
Nuisance Odor/Vector	---	Observation	Quarterly	Annually
Discharge Off-Site	---	Observation	Quarterly	Annually
Notification Signs (see 3 below)	---	Observation	Quarterly	Annually

1. Meter requires meter reading, a pump run-time meter, or other approved method. The user must measure both the water removed from the effluent/reclaimed water storage tank for irrigation and potable water added to the tank.
2. Acreage applied denotes the acreage to which the recycled water is applied.

3. Notification signs shall be consistent with the requirements of California Code of Regulations, title 22 section 60310 (g).

REPORTING

In reporting monitoring data, the Administrator shall arrange the data in tabular form so that the date, sample type (e.g., effluent, solids, etc.), and reported analytical or visual inspection results are readily discernable. The data shall be summarized to clearly illustrate compliance with the General Order and NOA as applicable. The results of any monitoring done more frequently than required at the locations specified in the MRP shall be reported in the next regularly scheduled monitoring report and shall be included in calculations as appropriate.

All regulatory documents, submissions, materials, data, monitoring reports, and correspondence should be converted to a searchable Portable Document Format (PDF) and submitted electronically. Documents that are less than 50MB should be emailed to: centralvalleyfresno@waterboards.ca.gov. Documents that are 50MB or larger should be transferred to a disk and mailed to the appropriate Regional Water Board office, in this case 1685 E Street, Fresno, CA 93706. To ensure that your submittals are routed to the appropriate staff, the following information block should be included in any email used to transmit documents to this office:

Program: Non-15,

Place ID: 8711110

Facility Name: Monte Verdi Estates (CSA 44D) Wastewater Treatment Facility

Order: 2016-0068-DDW-R5018.

A. Annual Report

Annual Reports shall be submitted to the Regional Water Board **by April 1st following the monitoring year**. The Annual Report shall include the following:

1. A summary table of all recycled water Users and Use Areas. Maps may be included to identify Use Areas. Newly permitted recycled water Users and Use Areas shall be identified. When applicable, supplement to the Title 22 Engineering Report and the State Water Board approval letter supporting those additions shall be included.
2. A summary table of all inspection and enforcement activities initiated by the Administrator. Include a discussion of compliance and the corrective action taken, as well as any planned or proposed actions needed to bring the discharge into compliance with the NOA and/or General Order. Copies of documentation of any enforcement actions taken by the Administrator shall be provided.

3. An evaluation of the performance of the recycled water treatment facility, including discussion of capacity issues, system problems, and a forecast of the flows anticipated in the next year.
4. Tabular and graphical summaries of all monitoring data collected during the year.
5. The name and contact information for the recycled water operator responsible for operation, maintenance, and system monitoring.

A letter transmitting the annual monitoring reports shall accompany each report. The letter shall report number and severity of violations found during the reporting period, and actions taken or planned to correct the violations and prevent future violations. The transmittal letter shall contain the following penalty of perjury statement and shall be signed by the Administrator or the Administrator's authorized agent:

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

The Administrator shall begin implementing the above monitoring program the first month following issuance of this MRP.

Ordered by:

Original Signed by Clay L. Rodgers for:
PATRICK PALUPA, Executive Officer

4/14/2021
(Date)

GLOSSARY

BOD ₅	Five-day biochemical oxygen demand
CaCO ₃	Calcium carbonate
DO	Dissolved oxygen
CT	The product of total chlorine residual and modal contact time measured at the same point.
EC	Electrical conductivity at 25° C
FDS	Fixed dissolved solids
TDS	Total dissolved solids
TKN	Total Kjeldahl nitrogen
TSS	Total suspended solids
Continuous	The specified parameter shall be measured by a meter continuously.
24-hr Composite	Samples shall be a flow-proportioned composite consisting of at least eight aliquots over a 24-hour period.
Daily	Every day except weekends or holidays.
Twice Weekly	Twice per week on non-consecutive days.
Weekly	Once per week.
Twice Monthly	Twice per month during non-consecutive weeks.
Monthly	Once per calendar month.
Quarterly	Once per calendar quarter.
Semiannually	Once every six calendar months (i.e., two times per year) during non-consecutive quarters.
Annually	Once per year.
mg/L	Milligrams per liter
mg/kg	Milligrams per kilogram
mL/L	Milliliters [of solids] per liter
µg/L	Micrograms per liter
µmhos/cm	Micromhos per centimeter
gpd	Gallons per day
mgd	Million gallons per day
MPN/100 mL	Most probable number [of organisms] per 100 milliliters
NA	Denotes not applicable
NTU	Nephelometric Turbidity Units
UV	Ultraviolet
mJ/cm ²	Millijoules/cm ²
SU	Standard pH units



Central Valley Regional Water Quality Control Board

TO: Scott J. Hatton
Supervising Water Resource Control Engineer

FROM: Alexander S. Mushegan
Senior Water Resource Control Engineer
RCE 84208

Jeff Robins
Water Resource Control Engineer

DATE: 14 April 2021



APPLICABILITY OF COVERAGE UNDER STATE WATER RESOURCES CONTROL BOARD ORDER WQ 2016-0068-DDW; WATER RECLAMATION REQUIREMENTS FOR RECYCLED WATER USE; COUNTY OF FRESNO, DEPARTMENT OF PUBLIC WORKS AND PLANNING; MONTE VERDI ESTATES (CSA 44D) RECLAMATION PROJECT; FRESNO COUNTY

On 6 February 2020, the Central Valley Regional Water Quality Control Board (Central Valley Water Board) received a Title 22 Engineering Report, prepared by Provost and Pritchard Consulting Group behalf of the County of Fresno, Department of Public Works and Planning (Administrator) for the Monte Verdi Estates (CSA 44D) Reclamation Project. The Title 22 Engineering Report was signed and stamped by Zheng Teng (RCE 68,783). On 15 May 2020, a revised Title 22 Engineering Report was submitted, which was conditionally approved by the State Water Resources Control Board (State Water Board), Division of Drinking Water (DDW) on 25 June 2020. On 30 July 2020, the Administrator submitted a Notice of Intent (NOI) and Form 200 applying for coverage under the State Water Board's Water Quality Order 2016-0068-DDW, *Water Reclamation Requirements for Recycled Water Use* (General Order) for the proposed Reclamation Project. On 20 August 2020, the Central Valley Water Board received an application fee for the application. On 12 March 2021, a revised Title 22 Engineering Report was submitted.

On 6 February 2020, Central Valley Water Board staff also received a Report of Waste Discharge (RWD) from Fresno County to enroll the Facility under State Water Board Water Quality Order 2014-0153-DWQ, *General Waste Discharge Requirements for*

Small Domestic Wastewater Treatment Systems (Small Domestic General Order). The Discharger was issued NOA 2014-0153-DWQ-R5344 and corresponding MRP on 14 April 2021. NOA and MRP 2014-0153-DWQ-R5344 become applicable after rescission of the Facility's current Waste Discharge Requirements (WDRs) Order 92-203 (tentatively planned for the June 2021 Central Valley Water Board Meeting).

This memorandum provides a summary of Central Valley Water Board's staff review of the July 2020 NOI and evaluates if the proposed discharge of disinfected tertiary recycled water to 12.7 acres of land (Use Area) for recycled water uses is eligible for enrollment under the General Order.

BACKGROUND INFORMATION

The Administrator owns and operates the Monte Verde Estates (CSA 44D) Wastewater Treatment Facility (Facility). The Facility previously included a sequencing batch reactor (SBR) treatment process that disposed effluent through a leach field. When WDRs Order 92-203 was issued, recycled water from the Facility was intended to be used for irrigation in common vegetated areas at the development. However, the treated effluent did not meet Title 22 recycled water requirements. As a result, upgrades were completed at the WWTF in 2019 to convert the treatment process from an SBR process to a membrane bioreactor (MBR) process. With the recent upgrades, the Administrator proposes to use disinfected tertiary-treated wastewater for reclamation on approximately 12.7 acres of public landscaping at Monte Verdi Estates (Use Area) and secondary disposal to the existing leach field (monthly average design capacity of 32,500 gallons per day [gpd]). The Monte Verdi Estates Homeowners Association (HOA) owns the Use Area and will be responsible for the distribution of the recycled water from the effluent/reclaimed water storage tank to the Use Area.

DESCRIPTION OF DISCHARGE

The Title 22 Engineering Report designates four areas to receive disinfected tertiary recycled water for irrigation (grass and trees) and one area to exclusively receive potable water. The areas designated to receive disinfected tertiary recycled water are summarized in Table 1 and shown in Attachment B of the Notice of Applicability (NOA).

Table 1 – Recycled Water Use Areas

Area Number	Approximate Acres (acres)	Assessor Parcel Numbers (APNs)
1	5.2	580-130-21 580-120-35
2	1.7	580-100-28 580-090-15
3	5.5	580-100-27 580-100-32

Area Number	Approximate Acres (acres)	Assessor Parcel Numbers (APNs)
4	0.3	580-100-30

The upgraded wastewater treatment system includes an influent pump station with five underground influent emergency overflow tanks (total combined capacity of 90,000 gallons), two spiral fine screens, a MBR system (consisting of an anoxic tank, pre-aeration tank, and two membrane bioreactors), chlorine disinfection, effluent/reclaimed water storage tank, and an aerobic sludge digester. A 1,300 foot, 14-inch diameter, polyvinyl chloride (PVC) pipe (approximate storage capacity of 10,400 gallons) conveys treated wastewater from the WWTF to the effluent/reclaimed water storage tank. The Discharger intends to use the PVC pipe to achieve the required chlorine contact time.

To satisfy the Title-22 requirements for unrestricted use, the RWD states the Facility will produce disinfected tertiary-treated effluent. Table 2 below summarizes the effluent quality the Facility will produce.

Table 2 - Effluent Quality

Constituent	Effluent Concentration
BOD ₅	10 mg/L (Monthly Average) and 20 mg/L (Daily Maximum)
TSS	10 mg/L (Monthly Average) and 20 mg/L (Daily Maximum)
Total Coliform	<ul style="list-style-type: none"> • ≤ 2.2 MPN per 100 mL (7-day median) • 23 MPN per 100 mL (not more than once in any 30-day period) • No Sample shall exceed 240 MPN per 100 mL
CT	<ul style="list-style-type: none"> • Not less than 450 milligrams-minutes per liter at all times, with a modal contact time of at least 90 minutes, based on the peak dry weather design flow
Turbidity	<ul style="list-style-type: none"> • Does not exceed 0.2 NTU more than 5% of the time in a 24-hour period • 0.5 NTU at any time
Total Nitrogen	Less than 10 mg/L

If CT is insufficient at the end of the effluent pipe, effluent will be automatically diverted to the community's leach fields via bypass piping immediately before the inlet to the storage tank. If the turbidity meter measurement exceeds 0.2 NTU, the effluent from the MBR will be automatically diverted to the influent wetwell, allowing compliance with turbidity requirements.

DIVISION OF DRINKING WATER (DDW) CONSIDERATIONS

The Administrator submitted a Title 22 Engineering Report dated 5 February 2020 and a revised Title 22 Engineering Report dated 14 May 2020 to DDW for review. On 25 June 2020, DDW issued a conditional approval email. DDW's condition of approval is that the Administrator install a chlorine analyzer at the CT compliance point and notify

DDW once the analyzer is complete for DDW to inspect the Facility.

MONITORING REQUIREMENTS

The monitoring requirements from Attachment B of the General Order that are appropriate for this discharge are:

- Disinfection System Monitoring (required in MRP NO. 2014-0153-DWQ-R5344 for the Small Domestic General Order).
- Use Area Monitoring

COMMENTS

Based on the information provided in the NOI, the May 2020 Title 22 Engineering Report (and revised March 2021 Title 22 Engineering Report), and the June 2020 DDW conditional approval email, the application for the Monte Verde Estates (CSA 44D) Reclamation Project is consistent with the requirements of the General Order.