CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION
MONITORING AND REPORTING PROGRAM WQ 2014-0153-DWQ-R5329
FOR
GRAYSON COMMUNITY SERVICE DISTRICT WASTEWATER TREATMENT FACILITY
STANISLAUS COUNTY

This Monitoring and Reporting Program (MRP) describes requirements for monitoring the Grayson Community Service District (GCSD) Waste Treatment Facility (WWTF). This MRP is issued pursuant to Water Code section 13267. The Discharger shall not implement any changes to this MRP unless and until a revised MRP is issued by the Regional Water Quality Control Board, Central Valley Region (Central Valley Water Board) or Executive Officer.

Water Code section 13267 states, in part:

> "In conducting an investigation specified in subdivision (a), the regional board may require that any person who has discharged, discharges, or is suspected of having discharged or discharging, or who proposes to discharge waste within its region, or any citizen or domiciliary, or political agency or entity of this state who has discharged, discharges, or is suspected of having discharged or discharging, or who proposes to discharge, waste outside of its region that could affect the quality of waters within its region shall furnish, under penalty of perjury, technical or monitoring program reports which the regional board requires. The burden, including costs, of these reports shall bear a reasonable relationship to the need for the report and the benefits to be obtained from the reports. In requiring those reports, the regional board shall provide the person with a written explanation with regard to the need for the reports, and shall identify the evidence that supports requiring that person to provide the reports."

Water Code section 13268 states, in part:

> "(a) Any person failing or refusing to furnish technical or monitoring program reports as required by subdivision (b) of section 13267, or failing or refusing to furnish a statement of compliance as required by subdivision (b) of section 13399.2, or falsifying any information provided therein, is guilty of a misdemeanor and may be liable civilly in accordance with subdivision (b).
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> (b)(1) Civil liability may be administratively imposed by a regional board in accordance with article 2.5 (commencing with section 13323) of chapter 5 for a violation of subdivision (a) in an amount which shall not exceed one thousand dollars ($1,000) for each day in which the violation occurs."

The GCSD (Discharger) owns and operates the wastewater system that is subject to the Notice of Applicability (NOA) of Water Quality Order 2014-0153-DWQ-R5329. The reports are necessary to ensure that the Discharger complies with the NOA and General Order. Pursuant to Water Code section 13267, the Discharger 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 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.

Analytical procedures shall comply with the methods and holding times specified in the following:

- *Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater (EPA);*
- *Test Methods for Evaluating Solid Waste (EPA);*
- *Methods for Chemical Analysis of Water and Wastes (EPA);*
- *Methods for Determination of Inorganic Substances in Environmental Samples (EPA);*
- *Standard Methods for the Examination of Water and Wastewater (APHA/AWWA/WEF);*
- *Soil, Plant and Water Reference Methods for the Western Region (WREP 125)*.

Approved editions shall be those that are approved for use by the United States Environmental Protection Agency or the California Department of Public Health's Environmental Laboratory Accreditation Program. The Discharger may propose alternative methods for approval by the Executive Officer. Where technically feasible, laboratory reporting limits shall be lower than the applicable water quality objectives for the constituents to be analyzed.

POND SYSTEM MONITORING

INFLUENT MONITORING

Influent samples shall be taken from a location that provides representative samples of the wastewater quality prior to discharge to the treatment ponds. At a minimum, influent monitoring shall consist of the parameters listed in Table 1, where the flow rate is reported in gallons per day (gpd), and BOD represents five-day biochemical oxygen demand. Flow rate may be metered or estimated based on potable water supply meter readings or other approved method. Flow rates may be measured as influent or effluent flow. The method of measurement should be reported. Flow meters shall be calibrated at the frequency

recommended by the manufacturer, but at least annually, and records of calibration shall be maintained for review upon request.

Table 1 Influent monitoring parameters

Parameter	Units	Sample Type	Sample Frequency	Reporting Frequency
Flow rate	gpd	Meter observation or calculation	Weekly	Semi-annually
Electrical conductivity (EC)	µmhos/cm	Grab	Monthly	Semi-annually
Biochemical oxygen demand (BOD)	mg/L	Grab	Monthly	Semi-annually
Total Nitrogen	mg/L	Grab	Monthly	Semi-annually

TREATMENT POND MONITORING

All wastewater treatment ponds shall be monitored as shown in Table 2. If a pond is empty on the scheduled monitoring date, the Discharger shall report the freeboard monitoring result as “dry”.

Dissolved oxygen (DO) shall be measured between 8:00 a.m. and 10:00 a.m. and shall be taken opposite the pond inlet at a depth of approximately one foot. If the DO is below 1.0 mg/L during a monthly sampling event and odors are detected offsite, the discharger shall take all reasonable steps to correct the problem and will commence daily DO monitoring in the affected ponds until the problem has been resolved.

Table 2 Treatment pond monitoring parameters

Parameter	Units	Sample Type	Sample Frequency	Reporting Frequency
Dissolved oxygen (DO)	mg/L	Grab	Monthly	Semi-annually
Freeboard, measured to 0.1 ft	feet (ft)	Staff gauge observation	Monthly	Semi-annually
Odors	--	Observation	Monthly	Semi-annually
Berm condition	--	Observation	Monthly	Semi-annually

EFFLUENT MONITORING

Samples of effluent shall be taken at the point of discharge to the disposal beds. There is no effluent flow meter in place, so monthly average flow to the disposal beds will be calculated based on the weekly influent flow rate. At a minimum, effluent monitoring shall consist of the parameters listed in Table 3, where total nitrogen is the sum of nitrate nitrogen and total Kjeldahl nitrogen (TKN).

Table 3 Effluent monitoring parameters

Parameter	Units	Sample Type	Sample Frequency	Reporting Frequency
Monthly Average Flow	gpd	Calculated	Monthly	Semi-annually
BOD	mg/L	Grab	Quarterly	Semi-annually
Total Nitrogen	mg/L	Grab	Quarterly	Semi-annually
EC	µmhos/cm	Grab	Quarterly	Semi-annually

LAND APPLICATION AREA MONITORING

Monitoring of the land application area (disposal beds) shall be conducted when the disposal beds are used, and the results shall be included in the semi-annual monitoring report. Monitoring shall consist of inspections of the disposal beds and associated distribution piping to determine whether wastewater is being contained within the beds. The ground in the immediate vicinity and surrounding the disposal site shall be inspected to determine the presence of effluent beyond the limits of the beds.

A written report of the conditions observed for the beds shall be prepared following each inspection and submitted with the semi-annual monitoring report. Evidence of leakage or runoff, erosion, animal burrowing, or the presence of nuisance odor conditions shall be noted in the report. The report shall identify any maintenance work necessary on the physical aspects of the system.

SOLIDS DISPOSAL MONITORING

The Discharger shall report the handling and disposal of all solids (e.g., screenings, grit, sludge, biosolids, etc.) generated at the wastewater system. Records shall include the name/contact information for the hauling company, the type and amount of waste transported, the date removed from the wastewater system, and the disposal facility name.

REPORTING

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: centralvalleysacramento@waterboards.ca.gov .

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

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

To ensure that your submittals are routed to the appropriate staff, the following information block should be included in any correspondence used to transmit documents to this office:

Facility Name: Grayson CSD WWTF
Program: Non-15 Compliance
Order: WQ 2014-0153-DWQ-R5329
CIWQS Place ID: 227843

In reporting monitoring data, the Discharger shall arrange the data in tabular form so that the date, sample type (e.g., effluent, pond, etc.), and reported analytical result for each sample are readily discernible. The data shall be summarized in such a manner to clearly illustrate compliance with waste discharge requirements and spatial or temporal trends, 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 scheduled monitoring report.

In addition to the requirements of Standard Provision C.3, monitoring information shall include the method detection limit (MDL) and the Reporting limit (RL) or practical quantitation limit (PQL). If the regulatory limit for a given constituent is less than the RL (or PQL), then any analytical results for that constituent that are below the RL (or PQL) but above the MDL shall be reported and flagged as estimated.

A. SEMI-ANNUAL MONITORING REPORT

The Discharger shall establish a semi-annual sampling schedule for influent and effluent monitoring such that samples are obtained approximately every six months. Semi-Annual Monitoring Reports shall be submitted to the Central Valley Water Board by the **1st day of February and August**. The Semi-Annual Monitoring Reports shall include the following:

1. The results of all required monitoring.
2. A comparison of monitoring data to the requirements (including the flow limitation), disclosure of any violations of the NOA and/or General Order, and an explanation of any violation of those requirements. Data shall be presented in tabular format.
3. Copies of all laboratory analytical report(s) and chain of custody form(s).

B. ANNUAL MONITORING REPORT

In addition to the Semi-Annual Monitoring Report, an Annual Monitoring Report shall be prepared. The Annual Monitoring Report shall be submitted to the Central Valley Water Board by **1 February** each year. The Annual Monitoring Report shall include the following:

1. Tabular and graphical summaries of all monitoring data collected during the year.
2. Annual total effluent flow and average dry weather flow;
3. An evaluation of the performance of the wastewater treatment, including discussion of capacity issues and nuisance conditions, system problems, and a forecast of the flows anticipated in the next year.
4. A discussion of compliance and the corrective action taken, as well as any planned or proposed actions needed to bring the discharge into full compliance with the waste discharge requirements.

5. A discussion of any data gaps and potential deficiencies/redundancies in the monitoring system or reporting program.
6. The name and contact information for the wastewater operator responsible for operation, maintenance, and system monitoring.
7. The dates, duration, and volume of any treatment system or disposal bed containment failure events.

A letter transmitting the self-monitoring reports shall accompany each report. Such a letter shall include a discussion of requirement violations found during the reporting period, and actions taken or planned for correcting noted violations, such as operation or facility modifications. If the Discharger has previously submitted a report describing corrective actions and/or a time schedule for implementing the corrective actions, reference to the previous correspondence will be satisfactory.

The transmittal letter shall contain the penalty of perjury statement by the Discharger, or the Discharger's authorized agent, as described in the Standard Provisions General Reporting Requirements Section B.3.

The Discharger shall implement the above monitoring program on the first day of the month following adoption of this Order.

This Order is issued under authority delegated to the Assistant Executive Officer by the Central Valley Water Board pursuant to Resolution R5-2009-0027 and is effective upon signature.

Ordered by: _____

for Patrick Pulupa, Executive Officer