

ATTACHMENT D

MONITORING AND REPORTING PROGRAM NO. CI-XXXXX
FOR
ADVANCED ONSITE WASTEWATER TREATMENT SYSTEMS
ORDER NO. R4-2019-0024 (SERIES NO. XXX)
FILE NO. XX-XXX

I. REPORTING REQUIREMENTS

- A. The effective date of this Monitoring and Reporting Program (MRP) No. CI-XXXXX is **DATE**. The **PERMITTEE'S NAME** (hereinafter Permittee) shall implement this MRP immediately for the discharge from the Permittee's Advanced Onsite Wastewater Treatment System (Advanced OWTS). The first quarterly monitoring report is due **DATE**.

Quarterly monitoring reports shall be received by the dates specified in Table 1.

Table 1. Quarterly Monitoring Reporting Period and Due Date	
Reporting Period	Report Due
January - March	April 30
April - June	July 30
July - September	October 30
October - December	January 30

- B. In reporting the monitoring data, the Permittee shall arrange the data in tabular form so that the date, the constituents, and the concentrations are readily discernible. The data shall be summarized to demonstrate compliance with the requirements and, where applicable, shall include results of receiving water observations.
- C. Any mitigation/remedial activity including any pre-discharge treatment conducted at the site must be reported in the quarterly monitoring report.
- D. If there is no discharge during any reporting period, the report shall so state.
- E. Each quarterly monitoring report shall contain a separate section titled "Summary of Non-Compliance" located at the front of the report. This section shall clearly list all non-compliance with the WDRs, including any excursion(s) of effluent and receiving water limitations. For every item where the requirements were not met, the Permittee shall include a statement of the cause(s) of non-compliance and the corrective actions undertaken or proposed that will bring the discharge into full compliance with WDRs at the earliest possible time, including a timetable for implementation of those actions.
- F. By January 30th of each year, beginning January 30, **YEAR**, the Permittee shall submit

an annual summary report to the Regional Water Quality Control Board (Regional Board). The report shall contain both tabular and graphical summaries of the monitoring data obtained during the previous calendar year. In addition, the Permittee shall explain the compliance record and the corrective actions taken or planned, which may be needed to bring the discharge into full compliance with the Waste Discharge Requirements (WDRs). Laboratory analyses – all chemical, bacteriological, and/or toxicity analyses shall be conducted at a laboratory certified for such analyses by the State Water Resources Control Board, Division of Drinking Water (SWRCB-DDW) Environmental Laboratory Accreditation Program (ELAP). A copy of the laboratory certifications shall be provided each time a new analysis is used and/or renewal is obtained from ELAP.

- G. The method limits (MLs) employed for effluent analyses shall be lower than the permit limits established for a given parameter, unless the Discharger can demonstrate that a particular ML is not attainable and obtains approval for a higher ML from the Executive Officer. At least once a year, the Discharger shall submit a list of the analytical methods employed for each test and the associated laboratory quality assurance/quality control (QA/QC) procedures.
- H. Water/wastewater samples must be analyzed within allowable holding time limits as specified in 40 CFR Part 136.3. All QA/QC samples must be run on the same dates when samples were actually analyzed. The Discharger shall make available for inspection and/or submit the QA/QC documentation upon request by Regional Board staff. Proper chain of custody procedures must be followed and a copy of the chain of custody documentation shall be submitted with the report.
- I. Each monitoring report must affirm in writing that "All analyses were conducted at a laboratory certified for such analyses by the SWRCB-DDW ELAP, and in accordance with current United States Environmental Protection Agency (USEPA) guideline procedures or as specified in this Monitoring Program." Proper chain of custody procedures must be followed and a copy of the completed chain of custody form shall be submitted with the report.
- J. For every item where the requirements are not met, the Discharger shall submit a statement of the cause(s), and actions undertaken or proposed which will bring the discharge into full compliance with waste discharge requirements at the earliest possible time, including a timetable for implementation of those actions.
- K. The Discharger shall maintain all sampling and analytical results, including strip charts, date, exact place, and time of sampling, dates analyses were performed, analyst's name, analytical techniques used, and results of all analyses. Such records shall be retained for a minimum of three years. This period of retention shall be extended during the course of any unresolved litigation regarding this discharge, or when requested by the Regional Board.
- L. All monitoring reports must include, at minimum, the following:
 - 1. Well or location identification, date and time of sampling; and
 - 2. Sampler identification, laboratory identification; and chain of custody.

II. ADVANCED ONSITE WASTEWATER TREATMENT AND DISPOSAL SYSTEM MONITORING REQUIREMENTS

- A. Maintenance reporting: The Permittee shall annually submit an operation and maintenance report for the Advanced OWTS. The information to be contained in the report shall include, at a minimum, the following:
1. The name and address of the person or company responsible for the operation and maintenance of the Advanced OWTS;
 2. Type of maintenance (preventive or corrective action performed);
 3. Frequency of maintenance, if preventive;
 4. Any pumping required for the Advanced OWTS, including date(s) and volume(s); and,
 5. Maintenance records for the Advanced OWTS.
- B. Influent monitoring reports shall measure the monthly average and daily maximum wastewater flow from the collection system to the Advanced OWTS.
- C. An effluent sampling station shall be established at a location where representative samples of treated effluent can be obtained prior to discharge to the seepage pit and/or leach field disposal/subsurface drip irrigation system. Monitoring shall be conducted as described in the table below. The following shall constitute the effluent monitoring program, as specified in Table 2.

Table 2 – Effluent Monitoring Requirements for the Advanced OWTS			
Constituent	Units ^[1]	Type of Sample	Minimum Frequency of Analysis
Total Flow	gal/day	Recorder	Continuous
Turbidity	NTU	Recorder	Continuous
pH	pH units	Grab ^[2]	Quarterly
BOD_{5@20°C} ^[3]	mg/L	Grab ^[2]	Quarterly
Oil and Grease	mg/L	Grab ^[2]	Quarterly
Total Dissolved Solids ^[4]	mg/L	Grab ^[2]	Quarterly
Sulfate ^[4]	mg/L	Grab ^[2]	Quarterly
Chloride ^[4]	mg/L	Grab ^[2]	Quarterly
Boron ^[4]	mg/L	Grab ^[2]	Quarterly
Total Residual Chlorine ^[5]	mg/L	Grab ^[2]	Quarterly
Ammonia as Nitrogen	mg/L	Grab ^[2]	Quarterly
Nitrate as Nitrogen	mg/L	Grab ^[2]	Quarterly
Nitrite as Nitrogen	mg/ L	Grab ^[2]	Quarterly

Table 2 – Effluent Monitoring Requirements for the Advanced OWTS			
Constituent	Units ^[1]	Type of Sample	Minimum Frequency of Analysis
Total Nitrogen	mg/ L	Grab ^[2]	Quarterly
Total Coliform	MPN/100mL	Grab ^[2]	Quarterly
Fecal Coliform	MPN/100mL	Grab	Quarterly
Enterococcus ^[6]	MPN/100mL	Grab ^[2]	Quarterly
Constituents listed in Attachments C-1 to C-5	various	Grab ^[2]	Annually
Constituents listed in Attachment C-6 ^[7]	mg/L	Grab ^[2]	Quarterly
CECs in Attachment F	various	Grab ^[2]	Annually
Remaining Priority Pollutants in Attachment G	µg/L	Grab ^[2]	Annually

Table Notes:

- [1]. gal/day: gallons/day;
mg/L: milligram/liter;
NTU: nephelometric turbidity unit;
MPN/100mL: Most Probable Number/100 milliliter
- [2]. A grab sample is an individual sample collected in a short period of time not exceeding 15 minutes. Grab samples shall be collected during normal peak loading conditions for the parameter of interest, which may or may not be during hydraulic peaks.
- [3]. BOD: Biological Oxygen Demand
- [4]. If the groundwater quality objective (GWQO) for this constituent is specified in the Basin Plan, monitoring is required; if the GWQO is not specified, monitoring is not required.
- [5]. If disinfection other than chlorination is used, such as ultraviolet light, monitoring is not required.
- [6]. Applicable only if the discharge location is in a coastal area.
- [7]. Applicable only if chlorination is used for disinfection.

III. GROUNDWATER MONITORING PROGRAM

The requirement for groundwater monitoring shall be determined on a case-by-case basis and shall be prescribed in the enrollment letter issued by the Regional Board. The letter shall specify whether the Permittee is subject to section A or section B, below.

A. No Groundwater Monitoring Required

A groundwater monitoring program will not be required at this time. In the future, the Executive Officer may determine that a groundwater monitoring program is needed to fully evaluate the impact from the Advanced OWTS discharge to groundwater.

B. Groundwater Monitoring Required

1. Groundwater Monitoring Design: Representative samples of groundwater and measures of the water table elevation shall be obtained quarterly from a minimum of three (3) wells located laterally, upgradient, and downgradient of the Advanced OWTS.
2. Groundwater well installation shall include submission of a well installation report including a scaled plot plan, soil boring logs, water quality data, and as-built well construction diagrams. The report must be prepared under the direction of a California Professional Geologist, or Engineering Geologist, or a California Civil Engineer with appropriate experience in hydrogeology.
3. The following parameters shall constitute the groundwater monitoring program:

Table 3 – Groundwater Monitoring Requirements			
Constituent	Units	Type of Sample	Frequency
Water level	Feet	Vertical Measure	Quarterly
Total Dissolved Solids ^[1]	mg/L	Grab	Quarterly
Sulfate ^[1]	mg/L	Grab	Quarterly
Chloride ^[1]	mg/L	Grab	Quarterly
Boron ^[1]	mg/L	Grab	Quarterly
Total Residual Chlorine ^[2]	mg/L	Grab	Quarterly
Nitrate as Nitrogen	mg/L	Grab	Quarterly
Nitrite as Nitrogen	mg/ L	Grab	Quarterly
Total Nitrogen	mg/ L	Grab	Quarterly
Total Coliform	MPN/100mL	Grab	Quarterly
Fecal Coliform	MPN/100mL	Grab	Quarterly
Enterococcus ^[3]	MPN/100mL	Grab	Quarterly
Constituents listed in Attachments C-1 to C-5 ^[4]	Various	Grab	Annually
Constituents listed in Attachment C-6 ^[4, 5]	mg/L	Grab	Quarterly
CECs in Attachment F ^[6]	various	Grab	Annually
Remaining Priority Pollutants in Attachment G ^[6]	µg/L	Grab	Annually

Table Notes:

- [1]. If the GWQO for this constituent is specified in the Basin Plan, monitoring is required; if the GWQO is not specified, monitoring is not required.
- [2]. If disinfection other than chlorination is used, such as ultraviolet light, monitoring is not required.
- [3]. Applicable only if the discharge location is in a coastal area.
- [4]. Required only if the constituent is detected in the effluent monitoring required in Table 2 above the specified effluent limitation in the General Order.
- [5]. Applicable only if chlorination is used for disinfection.
- [6]. Applicable only if the concentration detected in the effluent is greater than the detection limit.

IV. WASTE HAULING REPORTING

In the event that waste sludge, septage, or other wastes are hauled offsite, the name and address of the hauler shall be reported, along with types and quantities hauled during the reporting period and the location of the final point of disposal. In the event that no wastes are hauled during the reporting period, a statement to that effect shall be submitted.

V. MONITORING FREQUENCIES

Specifications in this monitoring program are subject to periodic revisions. Monitoring requirements may be modified or revised by the Executive Officer based on review of monitoring data submitted pursuant to this MRP. Monitoring frequencies may be adjusted to a less frequent basis or parameters and locations dropped by the Executive Officer if the Permittee makes a request and the request is backed by statistical trends of monitoring data submitted.

VI. ELECTRONIC SUBMITTAL OF INFORMATION

The Permittee shall comply with the Electronic Submittal of Information (ESI) requirements by submitting all reports required under the MRP, discharge location data, and pdf monitoring reports to the State Water Resources Control Board GeoTracker database under Global ID WDRXXXXXXXXXX.

VII. CERTIFICATION STATEMENT

Each report shall contain the following completed declaration:

"I certify under penalty of law that this document, including all attachments and supplemental information, was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment.

Executed on the _____ day of _____ at _____

_____ (Signature)

_____ (Title)"

These records and reports are public documents and shall be made available for inspection during normal business hours at the office of the California Regional Water Quality Control Board, Los Angeles Region.

Ordered by: _____
Deborah J. Smith
Executive Officer

Date: _____