CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

MONITORING AND REPORTING PROGRAM R5-2022-0813
FOR
CITY OF AUBURN
AUBURN WASTEWATER TREATMENT PLANT
PLACER COUNTY

This Monitoring and Reporting Program (MRP), which is separately issued pursuant to Water Code section 13267, subdivision (b)(1), establishes monitoring and reporting requirements related to the waste discharges regulated under the General Order for Municipal Wastewater Dischargers That Meet Objectives/Criteria at the Point of Discharge to Surface Water, Order R5-2017-0085-02, NPDES Permit CA0077712, (Municipal General Order) and Notice of Applicability (NOA) R5-2017-0085-021 dated 22 June 2022. The Findings set forth in the Municipal General Order, including those pertaining to the need for submission of reports, are hereby incorporated as part of this MRP.

The City of Auburn (Discharger) owns and operates the City of Auburn Wastewater Treatment Plant (Facility), that is subject to the Municipal General Order and NOA. The monitoring and reporting required in this MRP are necessary to determine compliance with the groundwater limitations in the Municipal General Order and NOA. The Discharger shall not implement any changes to this MRP unless and until the Central Valley Regional Water Quality Control Board (Central Valley Water Board) adopts, or the Executive Officer issues, a revised MRP.

This MRP Order may be separately revised by the Executive Officer, in accordance with delegated authority under Water Code section 13223.

I. GENERAL MONITORING PROVISIONS

All samples shall be representative of the matrix of material sampled. The time, date, and location of each sample shall be recorded on the sample chain of custody form. Field test instruments (such as those used to measure pH, temperature, and electrical conductivity) may be used provided that:

1. The operator is trained in proper use and maintenance of the instruments;
2. The instruments are field calibrated at the frequency recommended by the manufacturer;
3. The instruments are serviced and/or calibrated by the manufacturer at the recommended frequency; and
4. Field calibration reports are submitted with the Annual Operations Report due **1 February** of each year, per the MGO and NOA.

Laboratory analytical procedures shall comply with the methods and holding times specified in the following (as applicable to the medium to be analyzed):

- 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); and
- 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 (EPA) or the State Water Resources Control Board (State Water Board), Division of Drinking Water's Environmental Laboratory Accreditation Program (ELAP). 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.

If groundwater monitoring consistently shows no significant variation in a constituent concentration or parameter after at least eight consecutive monitoring events, the Discharger may request this MRP be revised to reduce monitoring frequency, constituent analyses, or monitoring parameters. The proposal must include adequate technical justification for a reduction in monitoring frequency. The Discharger shall not implement any changes to this MRP unless and until the Central Valley Water Board adopts, or the Executive Officer issues, a revised MRP.

II. MONITORING LOCATIONS

A. Groundwater Monitoring Locations GW-001, GW-002, GW-003, GW-004, and GW-005

1. The Discharger shall establish the monitoring locations listed in Table 1 to demonstrate compliance with the groundwater limitations required in the NOA and Municipal General Order.

Table 1. Groundwater Monitoring Requirements

Monitoring Location Name	Monitoring Location Description
GW-001	Groundwater monitoring well (identified as MW-1 in the Discharger's Groundwater Monitoring Reports).
GW-002	Groundwater monitoring well (identified as MW-2 in the Discharger's Groundwater Monitoring Reports).
GW-003	Groundwater monitoring well (identified as MW-3 in the Discharger's Groundwater Monitoring Reports).
GW-004	Groundwater monitoring well (identified as MW-4 in the Discharger's Groundwater Monitoring Reports).
GW-005	Groundwater monitoring well (identified as MW-5 in the Discharger's Groundwater Monitoring Reports).

III. MONITORING REQUIREMENTS

A. Groundwater Monitoring

1. Prior to construction and/or beginning a sampling program of any new groundwater monitoring wells, the Discharger shall submit plans and specifications to the Central Valley Water Board for approval. Once installed, all new wells shall be added to the monitoring network (which currently consists of Monitoring Wells GW-001, GW-002, GW-003, GW-004, and GW-005) and shall be sampled and analyzed according to the schedule below. All groundwater samples shall be collected using approved EPA methods and the previously approved Sampling and Analysis Plan. Water table elevations shall be calculated to determine groundwater gradient and direction of flow.
2. Prior to sampling, depth to groundwater measurements shall be measured in each monitoring well to the nearest 0.01 feet. Groundwater elevations shall then be calculated to determine groundwater gradient and flow direction. Monitoring wells to be sampled shall be purged of at least three well volumes until temperature, pH, and electrical conductivity have stabilized. Low or no-purge sampling methods are acceptable, if described in an approved Sampling and Analysis Plan. Groundwater monitoring at GW-001, GW-002, GW-003, GW-004, GW-005, and any new groundwater monitoring wells shall include, at a minimum, the requirements in Table 2.

Table 2. Groundwater Monitoring Requirements

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
Depth to Groundwater	±0.01 feet	Measurement	Quarterly	--
Groundwater Elevation (see note 1 below)	±0.01 feet	Calculated	Quarterly	--
Gradient	feet/feet	Calculated	Quarterly	--
Gradient Direction	degrees	Calculated	Quarterly	--
Electrical Conductivity @ 25°C	µmhos/cm	Grab	Quarterly	See note 2 below
Total Dissolved Solids	mg/L	Grab	Quarterly	See note 2 below
pH	standard units	Grab	Quarterly	See note 2 below
Total Coliform Organisms	MPN/100 mL	Grab	Quarterly	See note 2 and 3 below

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
Total Nitrogen	mg/L	Grab	Quarterly	See note 2 below
Total Kjeldahl Nitrogen	mg/L	Grab	Quarterly	See note 2 below
Nitrate Nitrogen, Total (as N)	mg/L	Grab	Quarterly	See note 2 below
Ammonia (as NH4)	mg/L	Grab	Quarterly	See note 2 below
Metals (see note 4 below)	µg/L	Grab	Yearly	See note 2 below
Standard Minerals (see note 5 below)	µg/L	Grab	Yearly	See note 2 below

Table 2 Notes:

1. Groundwater elevation shall be determined based on depth-to-water measurements from a surveyed measuring point elevation on the well. The groundwater elevation shall be used to calculate the direction and gradient of groundwater flow, which must be reported.
2. Pollutants shall be analyzed using the analytical methods described in 40 CFR Part 136 or by methods approved by the Central Valley Water Board or the State Water Board.
3. Using a minimum of 15 tubes or three dilutions.
4. Metals shall include at least the following: antimony, arsenic, barium, beryllium, cadmium, total chromium, copper, lead, mercury, molybdenum, nickel, selenium, vanadium, and zinc. Samples for metals shall be filtered prior to preservation and digestion using a 0.45-micron filter.
5. Standard minerals shall include the following: boron, calcium, dissolved iron, magnesium, potassium, sodium, chloride, dissolved manganese, phosphorus, total alkalinity (including alkalinity series), and hardness, and include verification that the analysis is complete (i.e., cation/anion balance).

III. REPORTING REQUIREMENTS

The Reporting Requirements from the NOA, Appendix D, are applicable to this MRP.

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 Monitoring and Reporting Program shall be reported in the next scheduled monitoring report.

Laboratory analysis reports shall be included in the monitoring reports. For a Discharger conducting any of its own analyses, reports must also be signed and certified by the chief of the laboratory.

All monitoring results 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.

As required by the California Business and Professions Code Sections 6735, 7835, and 7835.1, all groundwater monitoring reports shall be prepared under the direct supervision of a registered professional engineer or geologist and signed by the registered professional.

Quarterly Monitoring Reports

The Discharger shall establish a quarterly sampling schedule for groundwater monitoring such that samples are obtained approximately every three months. Quarterly monitoring reports shall be submitted to the Board by the **1st day of the second month after the quarter** (i.e. the January-March quarter is due by May 1st) each year. The Quarterly Report shall include the following:

1. Results of groundwater monitoring;

2. A narrative description of all preparatory, monitoring, sampling, and sample handling for groundwater monitoring. The narrative shall be sufficiently detailed to verify compliance with the Municipal General Order, NOA, this MRP, and the Standard Provisions and Reporting Requirements per Appendix D of the NOA. The narrative shall be supported by field logs for each well documenting depth to groundwater; parameters measured before, during, and after purging; method of purging; calculation of casing volume; and total volume of water purged; sample preparation (e.g., filtering); and sample preservation.

3. Calculation of groundwater elevations, an assessment of groundwater flow direction and gradient on the date of measurement, comparison of previous flow direction and gradient data, and discussion of seasonal trends if any;

4. A narrative discussion of the analytical results for all groundwater locations monitored including spatial and temporal tends, with reference to summary data tables, graphs, and appended analytical reports (as applicable);

5. A comparison of monitoring data to the groundwater limitations and an explanation of any violation of those requirements;

6. Summary data tables of historical and current water table elevations and analytical results;

7. A scaled map showing relevant structures and features of the facility, the locations of monitoring wells and any other sampling stations, and groundwater elevation contours referenced to mean sea level datum;

8. Copies of laboratory analytical report(s) for groundwater monitoring.

A letter transmitting the monitoring results shall accompany each quarterly report. The transmittal letter shall contain the following penalty of perjury statement and shall be signed by the Discharger or the Discharger's authorized agent:

> *"I certify under penalty of law that I have personally examined and am familiarwith 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."*

If, in the opinion of the Executive Officer, the Discharger fails to comply with the provisions of this Order, the Executive Officer may refer this matter to the Attorney General for judicial enforcement, may issue a complaint for administrative civil liability, or may take other enforcement actions. Failure to comply with this Order may result in the assessment of Administrative Civil Liability of up to $10,000 per violation, per day, depending on the violation, pursuant to the Water Code, including sections 13268, 13350 and 13385. The Central Valley Water Board reserves its right to take any enforcement actions authorized by law.

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 MRP, 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 (http://www.waterboards.ca.gov/public_notices/petitions/water_quality) or will be provided on request.

The Discharger shall implement the above monitoring program starting **1 July 2022**.

This Order is issued under authority delegated to the Executive Officer by the Central Valley Water Board pursuant to Resolution R5-2018-0057, and Water Code section 13223.

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Water Boards

PATRICK PULUPA, Executive Officer