

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

TENTATIVE MONITORING AND REPORTING PROGRAM R5-2024-0XXX
FOR
RATTO BROTHERS, INC.
STANISLAUS COUNTY

This Monitoring and Reporting Program (MRP) for Ratto Brothers, Inc. (Discharger) is issued pursuant to Water Code section 13267. This MRP establishes monitoring and reporting requirements related to the waste discharges regulated under Waste Discharge Requirements Order R5-2024-0XXX (WDRs Order). Each of the Findings set forth in the WDRs Order, including those pertaining to the need for submission of reports, are hereby incorporated as part of this MRP.

Ratto Brothers, Inc. (Discharger) owns and operates the Ratto Brothers (Facility), an existing vegetable processing facility, which is subject to WDRs Order R5-2024-0XXX. 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.

A glossary of terms used in this MRP is included on the last page.

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

I. GENERAL MONITORING REQUIREMENTS

A. Sampling and Sample Analysis

All samples shall be representative of the volume and nature of the discharge or matrix of material sampled. Except as specified otherwise in this MRP, grab samples will be considered representative of water, wastewater, solids, and groundwater.

The time, date, and location of each sample shall be recorded on the sample chain of custody form. All analyses shall be performed in accordance with the *Standard Provisions and Reporting Requirements for Waste Discharge Requirements*, dated 1 March 1991 (Standard Provisions).

Field test instruments (such as those used to measure pH, electrical conductivity, wind speed, and precipitation) 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 at the manufacturer's recommended frequency; and
4. Field calibration reports are submitted as described in the "Reporting" section of the MRP.

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'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 concentrations that implement applicable water quality objectives or limits for the constituents to be analyzed.

B. Monitoring and Sampling Locations

Samples shall be obtained at the monitoring points specified in this MRP and shown in the Process Flow Schematic in Attachment C to Waste Discharge Requirements (WDRs) Order R5-2024-0XXX. Central Valley Water Board staff shall approve any proposed changes to sampling locations prior to implementation of the change.

Table 1. Monitoring Locations

Location Name	Description
PROCWELL-1	Water Supply Well 1
PROCWELL-2	Water Supply Well 2

Location Name	Description
DOMWELL-1	Location where a representative sample of the domestic supply water can be collected prior to use as final product rinse water.
S1	Wastewater compliance sample location
M1	Flow meter location measuring volume of source water
M2	Flow meter location measuring the total volume of wastewater discharged to the pond system. (Flow limit compliance point)
M3	Flow meter location measuring the volume of wastewater discharged to land.

II. SPECIFIC MONITORING REQUIREMENTS

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.

A. Source Water Monitoring

Samples of source water shall be collected from each supply well beginning in 2025. Duplication of sampling and monitoring activities are not required if the monitoring activity satisfies the requirements of this Order. At a minimum, the Discharger shall sample the source water and analyze the samples for the parameters listed in the table below.

Table 2. Source Water Monitoring Parameters and Frequencies.

Parameter	Units	Sample Type	Sampling and Reporting Frequency
Electrical conductivity (EC)	µS/cm	grab	Every three years
Total Dissolved Solids (TDS)	mg/L	grab	Every three years
Nitrate nitrogen (nitrate N)	mg/L	grab	Every three years

Parameter	Units	Sample Type	Sampling and Reporting Frequency
Standard minerals: Bicarbonate alkalinity Hardness Calcium Chloride Potassium Sodium Sulfate Iron, dissolved Magnesium Manganese, dissolved	mg/L	grab	Every three years

B. Wastewater Effluent Monitoring

Wastewater samples shall be obtained from Pond 3, sample location S1, as shown on Attachment C of WDRs Order R5-2024-XXXX. Pond 3 samples shall be considered representative of wastewater quality that is applied to the LAAs or used for dust control.

Samples from Pond 3 shall be collected when there is more than one foot of standing water in the pond. If the pond is dry, the monitoring report shall so state. The time of collection of a composite sample shall be recorded

Table 3. Wastewater Effluent Monitoring Parameters and Frequencies.

Parameter	Units	Sample Type	Sample Frequency	Reporting Frequency
EC	µS/cm	Composite	Monthly	Quarterly
Biochemical oxygen demand (BOD)	mg/L	Composite	Monthly	Quarterly
Fixed Dissolved Solids (FDS)	mg/L	Composite	Monthly	Quarterly
TDS	mg/L	Composite	Monthly	Quarterly
pH	s.u.	Composite	Monthly	Quarterly
Nitrate N	mg/L	Composite	Monthly	Quarterly
Total Kjeldahl nitrogen (TKN)	mg/L	Composite	Monthly	Quarterly
Ammonia N	mg/L	Composite	Monthly	Quarterly
Total nitrogen (TN)	mg/L	Calculation	Monthly	Quarterly

Parameter	Units	Sample Type	Sample Frequency	Reporting Frequency
Standard minerals Bicarbonate alkalinity Calcium Chloride Potassium Sodium Sulfate Iron, dissolved Magnesium Manganese, dissolved	mg/L	Composite	Annually	Annually

C. Flow monitoring

The Discharger shall monitor wastewater flows from the transfer pit to the settling ponds at flow meter M2, as shown on Attachment C in WDRs Order R5-2024-XXXX. Wastewater flows shall also be monitored from Pond 4 to the LAAs at flow meter location M3. Flow meter M2 is the compliance point for the effluent flow limit required by WDRs Order R5-2024-XXXX.

Table 4. Flow Monitoring

Data Source	Description	Units	Sample Type	Sampling Frequency	Reporting Frequency
M2	Transfer Pit outlet to Pond 1	gallons per day (gpd)	Meter	Daily (total daily flow)	Quarterly
M3	Discharge from Pond 4	gpd	Meter	Daily (total daily flow)	Quarterly

D. Pond Monitoring

Pond monitoring shall include, at a minimum, the following:

1. Pond(s) used for treatment, storage, or disposal of wastewater shall be monitored for the parameters listed in **Table 5** below and meet the following conditions.
 - a. Sampling and monitoring shall be conducted from permanent locations that will provide reasonable samples and observations of the pond(s).
 - b. Freeboard shall be measured vertically from the water surface to the lowest elevation of pond berms (or spillway/overflow pipe invert) and shall be measured to the nearest 0.10 feet.

c. Samples shall be collected at a depth of one foot, opposite the inlet. If the pond is dry, the monitoring report shall so state.

d. Dissolved Oxygen (DO) shall be measured at a depth of one foot, opposite the inlet. If offensive odors are detected by or brought to the attention of the Discharger, the Discharger shall monitor the potential source pond at least daily for DO and pH until the DO in the pond is greater than 1.0 mg/L.

e. Containment levees shall be observed for signs of seepage or surfacing water along the exterior toe of the levees.

2. Pond monitoring shall include at least the following for each pond (Pond 1 to 4) listed below.

Table 5. Pond Monitoring Parameters and Frequencies.

Parameter	Units	Sample Type	Sampling Frequency	Reporting Frequency
Freeboard	feet (to 0.1 ft)	Measurement	Weekly	Quarterly
Odors	--	Observation	Weekly	Quarterly
Pond conditions	--	Observation	Weekly	Quarterly

The Discharger shall inspect the condition of the ponds while wastewater is in the ponds and record visual observations in a logbook. Pond conditions notations when the pond is in use shall include observations of:

1. Presence of weeds in the water or along the berm;
2. Accumulations of dead algae, vegetation, scum, or debris on the pond surface;
3. Animal burrows in the berms;
4. Presence of objectionable odors; and
5. Color of the water (e.g., dark green, black, dull green, brown, etc.).

A summary of the entries made in the log shall be included in the subsequent monitoring report.

E. Land Application Area Monitoring

1. Field Inspections

The Discharger shall inspect the LAAs at least once weekly during irrigation events using wastewater, and observations from those inspections shall be

documented for inclusion in the quarterly monitoring reports. The following items shall be documented for each field to be irrigated on that day:

1. Ponding;
2. Potential and actual runoff or discharge to off-site areas;
3. Odors that have the potential to be objectionable at or beyond the property boundary; and
4. Any corrective actions taken based on observations made.

Temperature, wind direction, and other relevant field conditions shall be observed and recorded. The notations shall also document any corrective actions taken based on observations made. A copy of entries made in the log shall be submitted as part of the Quarterly Monitoring Report. If no irrigation with wastewater takes place during a given month, then the monitoring report shall so state.

2. Routine Monitoring

The Discharger shall perform the following routine monitoring and loading calculations during all months when land application occurs and shall present the data in the Quarterly Monitoring Reports. LAA monitoring shall include at least the parameters and frequencies described in Table 6. Calculations and assumptions shall be clearly documented.

Precipitation data obtained from the nearest National Weather Service rain gauge is acceptable.

Loading rates shall be calculated for each LAA. The total hydraulic loading rate can be calculated based on the duration of flow and the number of sprinklers operating at any one time. BOD loading shall be calculated using the daily applied volume of wastewater, actual application area, and most recent BOD results for the wastewater. Total nitrogen loading rates shall be calculated using the applied volume of wastewater, actual application area, and the most recent total nitrogen results for the wastewater. Loading rates for supplemental nitrogen (including commercial fertilizers, manure from cattle, etc.) shall be calculated using the actual load and application area. FDS loading rates shall be calculated using the daily applied volume of wastewater, actual application area, and most recent FDS results for the wastewater.

Table 6. LAA Monitoring Parameters and Frequencies.

Parameter	Units	Measurement	Measurement Frequency	Reporting Frequency
Precipitation	inch (to 0.1 in.)	Rain gauge	Daily	Quarterly
Field number(s) used for land application (irrigation)	--	Observation	Daily	Quarterly
Acreage used for land application (irrigation)	Acre	Observation	Daily	Quarterly
Total hydraulic loading rate (from each source)	In.	Calculation	Daily	Quarterly
Irrigation cycle average BOD loading rate	lb/ac/day	Calculation	Monthly	Quarterly
Total effluent nitrogen loading rate	lb/ac/day	Calculation	Monthly	Quarterly
Total supplemental nitrogen loading rate	lb/ac/day	Calculation	Monthly	Quarterly
FDS loading rate	lb/ac/day	Calculation	Monthly	Quarterly

F. Groundwater Monitoring

The Discharger shall maintain the groundwater monitoring well network. If a groundwater monitoring well is dry for more than four consecutive sampling events or is damaged, the Discharger shall submit to the Central Valley Water Board a workplan and proposed time schedule for its replacement, and the well shall be replaced following approval of the workplan. Alternatively, the Discharger shall submit a report with evidence demonstrating a replacement well is not needed.

Prior to construction of any additional groundwater monitoring wells, the Discharger shall submit plans and specifications to the Central Valley Water Board for review and approval. Once installed, all new monitoring wells shall be appropriately incorporated into monitoring conducted under this MRP and shall be monitored on an annual basis.

This groundwater monitoring program applies to groundwater monitoring well 1 (MW-1), monitoring well 2 (MW-2), and monitoring well 3 (MW-3) and any subsequently installed after the adoption of Order R5-2024-XXXX.

Prior to sampling, depth to groundwater measurements shall be measured in each monitoring well to the nearest 0.01 feet based on depth-to-water measurements using a surveyed measuring point elevation on the well and a surveyed reference elevation. Groundwater elevations shall then be calculated to determine groundwater gradient and flow direction.

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. Samples shall be collected and analyzed using standard EPA methods. Groundwater monitoring shall include, at a minimum, the parameters and constituents listed in the table below. Groundwater elevation shall be determined based on depth-to-water measurements using a surveyed measuring point elevation on the well and a surveyed reference elevation. Samples shall be filtered with a 0.45-micron filter, at the laboratory, prior to sample preservation for standard minerals.

If monitoring consistently shows no significant variation in a constituent concentration or parameter after at least eight consecutive groundwater monitoring events, including in newly installed monitoring wells, 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.

Table 7. Groundwater Monitoring Parameters and Frequencies.

Parameter	Units	Type of Sample	Sampling Frequency	Reporting Frequency
Depth to groundwater	feet (to 0.01 ft.)	Measurement	Quarterly	Annually
Groundwater elevation	feet	Calculation	Quarterly	Annually
Hydraulic gradient	feet/feet	Calculation	Quarterly	Annually
Hydraulic gradient direction	degrees	Calculation	Quarterly	Annually
EC	µS/cm	Grab	Quarterly	Annually
TDS	mg/L	Grab	Quarterly	Annually
Total Nitrogen (Sum of nitrate N + nitrite N + TKN)	mg/L	Grab	Quarterly	Annually
Nitrate Nitrogen	mg/L	Grab	Quarterly	Annually

Parameter	Units	Type of Sample	Sampling Frequency	Reporting Frequency
Standard minerals (as listed in Table 2)	mg/L	Grab	Annually	Annually

G. Solids Monitoring

The Discharger shall monitor volumes of residual solids generated and disposed of and reported in annual monitoring reports:

1. Volume of Solids Generated. Solids may include leaves, stems, and other vegetable material.
2. Volume Disposed of On-site. Describe the amount disposed (tons); location and dates of on-site disposal (e.g., LAA field or zone name); method of application, spreading, and incorporation; application rate (tons/acre), and monthly grab sample analysis for total nitrogen.
3. Volume Disposed of Off-site. Describe the disposal method (e.g., animal feed, land application, off-site composting, landfill, etc.); the amount disposed (tons); the name of the hauling company; and the destination of the solids (name and location of facility).

III. REPORTING

All regulatory documents, submissions, materials, data, monitoring reports, and correspondence shall 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, CA 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:

County: Stanislaus
Facility: Ratto Brothers, Inc.
Program: Non-15 Permitting
Order Number: R5-2024-0XXX
CIWQS Place ID: 876792

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 to the Central Valley Water Board in the next scheduled monitoring report.

All monitoring reports shall comply with the signatory requirements in Standard Provision B.3. For a Discharger conducting any of its own analyses, reports must also be signed and certified by the chief of the laboratory.

Laboratory reports submitted in compliance with this MRP shall include the constituent name, sample location, sample name, sample date, analysis date, analytical method, dilution factor, result, units, definitions of abbreviations, and method detection limits (MDLs).

In addition to the details specified in Standard Provision C.3, monitoring information shall include the 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 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 Professional Geologist and signed by the registered professional.

A. Quarterly Monitoring Reports

Daily, weekly, monthly, and quarterly monitoring data shall be reported in the quarterly monitoring report. Quarterly reports shall be submitted to the Central Valley Water Board by the **1st day of the second month after the calendar quarter**. Therefore, monitoring reports are due as follows.

First Quarter Monitoring Report (January – March):	1 May
Second Quarter Monitoring Report (April – June):	1 August
Third Quarter Monitoring Report (July – September):	1 November
Fourth Quarter Monitoring Report (October – December):	1 February

At a minimum, the report shall include:

1. Results of wastewater Effluent Monitoring in tabular format for each sampling period during the reported quarter.
2. Results of Pond Monitoring in tabular format for each month during the reported quarter. Describe if any actions were taken to maintain storage capacity and percolation rate.
3. Results of Flow Monitoring in tabular format for each month during the reported quarter, including calculated values for the total flow and average daily flow for each month and total annual flow to date.
4. Results of LAA Monitoring, including:
 - a. Calculated **hydraulic loading rate** for each month during the reported quarter, and cumulative annual loading to date.
 - b. Calculate mass of FDS applied to each LAA field on a daily basis using the following formula:

$$M = \frac{8.345(CV)}{A}$$

Where:

M = mass of FDS applied to an LAA field in lb/ac/day

C = concentration of FDS in mg/L based on the most recent wastewater effluent monitoring result

V = volume of wastewater applied to the LAA in millions of gallons per day (MGD)

A = area of the irrigated LAA in acres (ac.)

8.345 = unit conversion factor

- c. **Irrigation cycle average BOD loading rate** (mass of BOD applied to each LAA field), calculated using the following formula:

$$M = \frac{8.345(CV) + M_x}{AT}$$

Where:

M = mass of BOD applied to an LAA field in lb/ac/day

C = concentration of BOD in mg/L based on the most recent wastewater effluent monitoring result

V = volume of wastewater applied to the LAA in millions of gallons (MG) during the irrigation cycle

A = area of the irrigated LAA in acres (ac.)

T = irrigation cycle length in days, where irrigation cycle is the number of days from the first day water was applied to the last day of the drying time

M_x = BOD mass from other sources (e.g. cattle manure, wastewater residual solids) in pounds (lb)

8.345 = unit conversion factor

5. A summary of the notations made in the pond monitoring log during the quarter, including copies of inspection log page(s);
6. A calibration log verifying calibration of all handheld monitoring instruments and devices used to comply with the prescribed monitoring program; and
7. Copies of the laboratory analytical data reports.

B. Annual Monitoring Reports

An Annual Report shall be submitted by **1 February** of each year. In addition to the fourth quarter monitoring report items listed above, it shall include the following:

1. Flow Monitoring

- a. Total annual flow discharged from the Facility.
- b. Calculated flow-weighted average annual FDS effluent concentration using the following formula:

$$C_a = \frac{\sum_{1}^{12} [(C_{Pi} \times V_{Pi}) + (C_{Si} \times V_{Si})]}{\sum_{1}^{12} (V_{Pi} + V_{Si})}$$

Where:

- C_a = Flow-weighted average annual FDS concentration in mg/L
- i = the number of the month (e.g., January = 1, February = 2, etc.)
- C_{Pi} = Monthly average process wastewater FDS concentration for calendar month i in mg/L
- V_{Pi} = volume of process wastewater applied to Use Area during calendar month i in million gallons
- C_{Si} = Monthly average supplemental irrigation water FDS concentration for calendar month i in mg/L (considering each supplemental source separately)
- V_{Si} = Volume of supplemental irrigation water applied to LAA during calendar month i in million gallons (considering each supplemental source separately)

2. Process Supply Water Monitoring

- Analytical data table showing historical and current results.

3. Groundwater Monitoring

- a. A narrative description of all preparatory, monitoring, sampling, handling, and analytical testing for groundwater monitoring. The narrative shall be sufficiently detailed to verify compliance with this MRP and the Standard Provisions.
- b. A field log for each well documenting depth to groundwater; method of purging, parameters measured before, during, and after purging; sample preparation (e.g., filtering); and sample preservation. Low or no-purge

sampling methods are acceptable if described in an approved *Sampling and Analysis Plan*.

- c. Summary data tables of historical and current water table elevations and analytical results, comparison with previous flow direction and gradient data, and discussion of seasonal trends if any.
 - d. 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 an appropriate datum (e.g., NGVD 29 or NAVD 88).
 - e. An evaluation of the groundwater quality beneath the site.
 - f. Copies of the laboratory analytical data reports shall be maintained by the Discharger and submitted to the Central Valley Water Board.
4. Solids monitoring
- a. Volume of solids generated in the year
 - 1) Volume disposed of on-site, with a table of total nitrogen content data
 - 2) Volume disposed of off-site, disposal method, and name and location of receiver.

5. LAA monitoring results

- a. **Nitrogen loading rate** (mass of nitrogen applied to each LAA field on a yearly basis), calculated using the following formula:

$$M = \sum_{i=1}^{12} \frac{(8.345(C_i V_i) + M_x)}{A}$$

Where:

- M = mass of nitrogen applied to LAA in lb/ac/yr.
- C_i = Monthly average concentration of total nitrogen for month i in mg/L.
- V_i = volume of wastewater applied to the LAA during calendar month i in millions of gallons.
- A = area of the LAA irrigated in acres.
- i = the number of the month (e.g., Jan. = 1, Feb. = 2, etc.).
- M_x = nitrogen mass from other sources (e.g., fertilizer, manure, and compost) in pounds per acre.
- 8.345 = unit conversion factor.

6. Additional Reporting

- a. Monitoring equipment maintenance and calibration records, as described in Section C.4 of the Standard Provisions, shall be maintained by the discharger, and provided upon request to the Central Valley Water board.
- b. A discussion of the treatment or control measures implemented during the calendar year, either voluntarily or pursuant to this MRP, or any other Order.
- c. A brief discussion of any data gaps and potential deficiencies or redundancies in the monitoring system or reporting program.

A letter transmitting the self-monitoring reports shall accompany each report. The letter shall include a discussion of unplanned events impacting effluent or land application during the reporting period, and actions taken or planned for addressing the unplanned event, such as operation or facility modifications. The transmittal letter shall contain the penalty of perjury statement by the submitting Discharger or its authorized agent as described in Section B.3 of the Standard Provisions.

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 Executive Officer by the Central Valley Water Board pursuant to Resolution R5-2018-0057 and is effective upon signature.

Any person aggrieved by this Central Valley Water Board action may petition the State Water Board for review in accordance with Water Code section 13320 and California Code of Regulations, title 23, section 2050 et seq. The State Water Board must receive the petition by 5:00 p.m., 30 days after the date of this Order, 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 Board by 5:00 p.m. on the next business day. Copies of the law and regulations applicable to filing petitions are available on the State Water Board's website [State Water Board's website](http://www.waterboards.ca.gov/public_notices/petitions/water_quality) (http://www.waterboards.ca.gov/public_notices/petitions/water_quality), the address below, and will also be provided upon request.

Ordered by: _____
for PATRICK PULUPA, Executive Officer

IV. GLOSSARY

μS/cm	Micro-siemens per centimeter; same as micro-mhos per cm (μmhos/cm)
Annually	Once per year
BOD	Five-day biochemical oxygen demand at 20°C
Daily	Every day except weekends or holidays
EC	Electrical conductivity at 25°C
FDS	Fixed dissolved solids
ft	feet
gpd	gallons per day
in.	inch
LAA	Land application area
MDL	method detection limit
mg/L	milligrams per liter
Monthly	Once per calendar month
MRP	Monitoring and Reporting Program
Quarterly	Once per calendar quarter
Semi-annually	Once every six months
TDS	Total dissolved solids
TKN	Total Kjeldahl nitrogen
Weekly	Once per week