

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

TENTATIVE MONITORING AND REPORTING PROGRAM R5-2020-XXXX

FOR
TASTEFUL SELECTIONS, LLC; TASTEFUL PROPERTIES, LLC; AND WAY-GIN, LP
TASTEFUL SELECTIONS ARVIN FACILITY
KERN 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 discharged regulated under Waste Discharge Requirements Order R5-2020-XXXX (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. Tasteful Selections, LLC; Tasteful Properties, LLC; and Way-Gin, LP (collectively the Discharger) owns and/or operates the Tasteful Selections Arvin Facility (Facility) at 13003 Di Giorgio Road in Arvin, California or the land application area (LAA) subject to the WDRs Order. The monitoring required in this MRP is necessary to determine compliance with the WDRs Order.

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

I. GENERAL MONITORING REQUIREMENTS

A. FLOW MONITORING

Hydraulic flow rates shall be measured at the monitoring points specified in this MRP. All flow monitoring systems shall be appropriate for the conveyance system (i.e., open channel flow or pressure pipeline) and liquid type. Unless otherwise specified, each flow meter shall be equipped with a flow totalizer to allow reporting of cumulative volume as well as instantaneous flow rate. Flow meters shall be calibrated at the frequency recommended by the manufacturer; typically, at least once per year and records of calibration shall be maintained for review upon request.

B. MONITORING AND SAMPLE LOCATIONS

Samples shall be obtained at the monitoring points specified in this MRP. The Central Valley Water Board Executive Officer shall approve any proposed changes to sampling locations prior to implementation of the change.

The Discharger shall monitor the following locations to demonstrate compliance with the requirements of the WDRs Order:

Table 1 – Monitoring Location Designations

Monitoring Location Name	Monitoring Location Description
WS-001	Location where a representative sample of the cold storage condensate can be obtained.
INF-001	Location where a representative sample of commingled untreated wastewater (cold storage condensate, potato processing/washing wastewater, and cooling tower blowdown water) can be obtained prior to treatment at the recycling water treatment system.
EFF-001	Location where a representative sample of the recycled water treatment system effluent can be obtained prior to discharge to the lined wastewater storage pond.
EFF-002	Location where a representative sample of the lined wastewater storage pond effluent can be obtained prior to discharge to the land application area (LAA).
PND-001	Lined wastewater storage pond.
SWB-001	Unlined stormwater basin.
LAA-001 to LAA-XXX	Specific fields in the LAA where the Facility’s discharge is applied.
SPL-001	Existing source water well for the Facility and any other source water wells added to the source water well network.

C. 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, soil, solids/sludges and groundwater. 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, EC, DO, 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 by the manufacturer at the recommended frequency; and
4. Field calibration reports are submitted as described in the “Reporting” section of this 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 (State Water Board), Division of Drinking Water’s 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.

II. SPECIFIC MONITORING REQUIREMENTS

A. COLD STORAGE CONDENSATE MONITORING (WS-001)

Samples of the cold storage condensate shall be collected at Monitoring Location WS-001, prior to mixing with any other waste stream (i.e., potato processing/washing wastewater and cooling tower blowdown water). At a minimum, cold storage condensate shall be monitored as specified in Table 2 below:

Table 2 – Cold Storage Condensate Monitoring (WS-001)

Constituent	Units	Sample Type	Monitoring Frequency
Total Nitrogen (as N)	mg/L	Grab	1/Quarter
Nitrate (as N)	mg/L	Grab	1/Quarter
Ammonia (as N)	mg/L	Grab	1/Quarter
Total Kjeldahl Nitrogen (as N)	mg/L	Grab	1/Quarter
EC	µmhos/cm	Grab	1/Quarter

B. INFLUENT MONITORING (INF-001)

Influent samples shall be collected at Monitoring Location INF-001 prior to the recycled water treatment system. For continuous analyzers, the Discharger shall report documented routine meter maintenance activities including date, time of day, and duration, in which the analyzer(s) is not in operation. At a minimum, influent shall be monitored as specified in Table 3 below:

Table 3 – Influent Monitoring (INF-001)

Constituent/Parameter	Units	Sample Type	Monitoring Frequency
Flow	gallons	Meter (See 1 below)	Continuous
EC	µmhos/cm	Grab	1/Month
BOD ₅	mg/L	Grab	1/Quarter
TDS	mg/L	Grab	1/Quarter
FDS	mg/L	Grab	1/Quarter
Dibromochloropropane	µg/L	Grab	1/Year

1. Pursuant to Provision G.5 of the WDRs Order, the Discharger shall begin continuous influent flow metering within six months of the adoption of the WDRs Order. Until such time, the Discharger may estimate the flow.

C. RECYCLED WATER TREATMENT SYSTEM EFFLUENT MONITORING (EFF-001)

Effluent samples from the recycled water treatment system to the lined wastewater storage pond shall be collected at Monitoring Location EFF-001. For continuous analyzers, the Discharger shall report documented routine meter maintenance activities including date, time of day, and duration, in which the analyzer(s) is not in operation. At a minimum, the recycled water treatment system effluent shall be monitored as specified in Table 4 below.

Table 4 - Recycled Water Treatment System Effluent Monitoring (EFF-001)

Constituent/Parameter	Units	Sample Type	Monitoring Frequency
Flow	gallons	Meter Reading (See 1 below)	Continuous
EC	µmhos/cm	Grab	1/Month
BOD ₅	mg/L	Grab	1/Quarter
TSS	mg/L	Grab	1/Quarter
pH	pH Units	Grab	1/Quarter
TDS	mg/L	Grab	1/Quarter
Total Nitrogen	mg/L	Grab	1/Year

1. Pursuant to Provision G.5 of the WDRs Order, the Discharger shall begin continuous effluent flow metering within six months of the adoption of the WDRs Order. Until such time, the Discharger may continue to estimate the flow.

D. WASTEWATER STORAGE POND EFFLUENT MONITORING (EFF-002)

The effluent from the lined wastewater storage pond to the LAA shall be collected at Monitoring location EFF-002. For continuous analyzers, the Discharger shall report documented routine meter maintenance activities including date, time of day, and duration, in which the analyzer(s) is not in operation. At a minimum, the lined wastewater storage pond effluent shall be monitored as specified in Table 5 below.

Table 5 - Wastewater Storage Pond Effluent Monitoring (EFF-002)

Constituent/Parameter	Units	Sample Type	Monitoring Frequency
Flow	gallons	Meter Reading (See 1 below)	Continuous
EC	µmhos/cm	Grab	1/Month
pH	pH Units	Grab	1/Month
BOD ₅	mg/L	Grab	1/Month
Total Nitrogen	mg/L	Grab	1/Month
TDS	mg/L	Grab	1/Month
FDS	mg/L	Grab	1/Month
Standard Minerals	various	Grab	1/Quarter
Dibromochloropropane	µg/L	Grab	1/Year

1. Pursuant to Provision G.5 of the WDRs Order, the Discharger shall begin continuous effluent flow metering within six months of the adoption of the WDRs Order. Until such time, the Discharger may continue to estimate the flow.

E. WASTEWATER STORAGE POND MONITORING (PND-001)

The Discharger shall monitor the effluent in the lined wastewater storage pond at Monitoring Location PND-001, when water is present. If the pond is dry the monitoring report shall so state. Samples shall be collected opposite the pond inlet at a depth of one foot and freeboard shall be measured to the nearest 0.1 foot vertically from the surface of the water to the lowest elevation of the berm. Sampling and monitoring will be conducted from a location that will provide a representative sample (i.e., opposite the inlet to the pond). Wastewater volume removed from the pond for dust control shall be recorded and reported in the quarterly reports.

Permanent markers (e.g., staff gages) shall be placed in the pond without damaging the integrity of the liner. The markers shall have calibrations indicating water level at the design capacity and available operational freeboard. Freeboard shall be measured vertically from the water surface to the lowest elevation of pond berm (or spillway/overflow pipe invert) and shall be measured to the nearest 0.10 feet.

Monitoring shall include, at a minimum, the parameters and constituents specified in Table 6 below:

Table 6 -Pond Monitoring (PND-001)

Constituent/Parameter	Units	Sample Type	Monitoring Frequency
Freeboard	Feet (± 0.1)	Measurement	1/Week
pH	s.u.	Grab	1/Week
DO (see 1 below)	mg/L	Grab	1/Month
Liner Condition	--	Observation	1/Month
Solids Depth (see 2 below)	Feet	Observation	1/Year
Volume of treated effluent used for dust control	Gallons	Volume	1/Day

1. DO shall be monitored between 8:00 am and 10:00 am. Samples shall be taken opposite the pond inlet approximately one foot below the pond surface. If there is less than one foot of water in the pond, no sample shall be collected, and the reason noted in the applicable monitoring report.
2. Thickness of settled solids accumulated at the bottom of the pond.

The Discharger shall conduct additional monitoring in the wastewater storage pond **when odors are detected (or reported) or when the DO is less than 1.0 mg/L**. The pond shall be monitored daily for pH and DO until the dissolved oxygen is greater than 1.0 mg/L. In addition, the Discharger shall inspect the condition of the pond once per week and document visual observations. Notations shall include observations of:

1. Presence of odors or nuisance conditions;
2. Accumulations of dead algae, vegetation, scum, or debris in the pond; and
3. Condition of the pond liner (if one is installed).

F. STORMWATER BASIN MONITORING (SWB-001)

The Discharger shall monitor the stormwater basin at Monitoring Location SWB-001 when water is present. If the basin is dry the monitoring report shall so state. Samples shall be collected opposite the basin inlet at a depth of one foot and freeboard shall be measured to the nearest 0.1 foot vertically from the surface of the water to the lowest elevation of the berm. Sampling and monitoring will be conducted from a location that will provide a representative sample (i.e., opposite the inlet to the basin).

Permanent markers (e.g., staff gages) shall be placed in the basin. The markers shall have calibrations indicating water level at the design capacity and available operational freeboard. Freeboard shall be measured vertically from the water surface to the lowest elevation of the basin berm (or spillway/overflow pipe invert) and shall be measured to the nearest 0.10 feet. Monitoring shall include, at a minimum, the parameters and constituents specified in Table 7 below:

Table 7 -Stormwater Basin Monitoring (SWB-001)

Constituent/Parameter	Units	Sample Type	Monitoring Frequency
Freeboard	Feet (± 0.1)	Measurement	1/Week
pH	s.u.	Grab	1/Week
DO	mg/L	Grab	1/Month
EC	$\mu\text{mhos/cm}$	Grab	1/Quarter
Total Nitrogen	mg/L	Grab	1/Quarter

In addition, the Discharger shall inspect the condition of the basin once per week and document visual observations. Notations shall include observations of:

1. Presence of odors or nuisance conditions, and
2. Accumulations of dead algae, vegetation, scum, or debris in the basin.

G. LAND APPLICATION AREA MONITORING (LAA-001 through LAA-00X)

The Discharger shall inspect the LAA at least once daily prior to and during irrigation events. Evidence of erosion, field saturation, runoff, or the presence of nuisance conditions (i.e., flies, ponding, etc.) shall be noted in the Facility’s logbook and included as part of the quarterly monitoring report. The Discharger shall create a map of the LAA and label and identify discrete irrigation areas (e.g. LAA-001 through LAA-XXX) to track wastewater, irrigation water, BOD₅, nitrogen, and salt loading.

In addition, the Discharger shall perform the routine monitoring and loading calculations identified in the table below for each discrete irrigation area within the LAA each day when water is applied. The data shall be collected and presented in both graphical (map) and tabular format and shall include the following:

Table 8 - LAA Monitoring (LAA-001 to LAA-00X)

Constituent/Parameter	Units	Sample Type	Frequency
Application Area	Acres	--	1/Day
Wastewater flow	Gallons	Metered (see 1 below)	1/Day
Wastewater loading	Inches/day	Calculated	1/Day
Supplemental Irrigation Flow	Gallons	Metered	1/Day
Supplemental Irrigation Loading	Inches/day	Calculated	1/Day
Precipitation	Inches	Rain gage (see 2 below)	1/Day
Total Hydraulic Loading (see 3 below)	Inches/acre/month	Calculated	1/Month

Constituent/Parameter	Units	Sample Type	Frequency
BOD₅ Loading (see 4 below)			
Cycle Average Loading Rate	lbs/acre/day	Calculated	Cycle
Nitrogen Loading (see 4 below)			
From wastewater	lbs/acre/yr	Calculated	1/Year
From fertilizers	lbs/acre/yr	Calculated	1/Year
Salt Loading (see 4 below)			
From wastewater	lbs/acre/yr	Calculated	1/Year

1. Pursuant to Provision G.5 of the WDRs Order, the Discharger shall begin continuous effluent flow metering within six months of the adoption of the WDRs Order. Until such time, the Discharger may continue to estimate the flow.
2. National Weather Service or CIMIS data from the nearest weather station is acceptable.
3. Combined loading from wastewater, stormwater, irrigation water, and precipitation.
4. The BOD₅, nitrogen, and salt loading rates shall be calculated as specified in Section III of this MRP.

H. WATER SUPPLY MONITORING (SPL-001)

A sampling station shall be established where a representative sample of the source water supply can be obtained. If the source water is from more than one well, the results shall also be presented as a flow-weighted average of all the wells used. Water supply monitoring shall include at least the following:

Table 9 – Water Supply Monitoring (SPL001)

Constituent/Parameter	Units	Monitoring Frequency
EC	µmhos/cm	1/Year
Standard Minerals	various	Once every three years (see 1 below)

1. Samples shall be collected once every three years starting in 2021.

III. REPORTING REQUIREMENTS

All monitoring reports 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 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
Region 5 – Fresno Office
1685 “E” St.
Fresno, California 93706

To ensure that your submittal is routed to the appropriate staff person, the following information should be included in the body of the email or transmittal sheet:

Program: Non-15
WDID: 5C15NC00197
Facility: Tasteful Selections Arvin Facility
Order: R5-2020-XXXX
County: Kern
Place ID: 807197

A transmittal letter shall accompany each monitoring report. The letter shall include a discussion of all violations of the WDRs and this MRP during the reporting period and actions taken or planned for correcting each violation. If the Discharger has previously submitted a report describing corrective actions taken and/or a time schedule for implementing the corrective actions, reference to the previous correspondence will be satisfactory. The transmittal letter shall contain a statement by the Discharger or the Discharger's authorized agent certifying under penalty of perjury that the report is true, accurate and complete to the best of the signer's knowledge.

In reporting monitoring data, the Discharger shall arrange the data in tabular form so that the date, sample type (e.g., effluent, groundwater, 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 should be included in the monitoring reports. In addition, all laboratory reports must be retained for a minimum of three years in accordance with Standard Provision C.3. of the SPRRs. For a Discharger conducting any of its own analyses, reports must also be signed and certified by the chief of the laboratory.

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.

All monitoring reports that involve planning, investigation, evaluation or design, or other work requiring interpretation and proper application of engineering or geologic sciences, shall be prepared by or under the direction of persons registered to practice in California pursuant to California Business and Professions Code sections 6735, 7835, and 7835.1.

A. QUARTERLY MONITORING REPORTS

Quarterly monitoring reports shall be submitted to the Central Valley Water Board by the **1st day of the second month after the quarter** (i.e., the January-March quarterly report is due by May 1st). Each Quarterly Monitoring Report shall include the following:

1. Results of the **Cold Storage Condensate Monitoring (WS-001)** specified in Section II.A.

2. Results of the **Influent Monitoring (INF-001)** specified in Section II.B.
3. Results of the **Recycled Water Treatment System Effluent Monitoring (EFF-001)**, specified in Section II.C, including:
 - a. Calculation of the 12-month rolling average EC of the discharge for each month of the quarter using the EC value for that month averaged with the EC values for the previous 11 months;
 - b. Calculation of the maximum daily flow, monthly average flow, and cumulative annual flow, for each month of the quarter.
4. Results of the **Wastewater Storage Pond Effluent Monitoring (EFF-002)**, specified in Section II.D, including:
 - a. Calculation of the 12-month rolling average EC of the discharge for each month of the quarter using the EC value for that month averaged with the EC values for the previous 11 months;
 - b. Calculation of the maximum daily flow, monthly average flow, and cumulative annual flow, for each month of the quarter.
5. Results of the **Wastewater Storage Pond Monitoring (PND-001)** specified in Section II.E, including:
 - a. Record of daily volume of effluent/pond wastewater used for dust control.
6. Results of the **Stormwater Basin Monitoring (SWB-001)** specified in Section II.F.
7. Results of the **LAA Monitoring (LAA-001 to LAA-00X)** specified in Section II.G., including:
 - a. A summary of the inspection activities conducted by the Discharger at the LAA;
 - b. Calculate the cycle average BOD loading rate for the LAA;
 - i. The mass of BOD₅ applied to the land application field on a cycle average basis shall be calculated using the following formula:

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

- Where:
- M = Mass of BOD₅ applied to each discrete LAA field in lbs/ac/day
 - C = Concentration of BOD₅ in mg/L based on the two most recent monitoring results
 - V = Total volume of wastewater applied to the land application field during the irrigation cycle, in millions of gallons
 - A = Area of the LAA field in acres
 - T = Irrigation cycle length in days (from the first day water was applied to the last day of the drying time)
 - 8.345 = Unit conversion factor.

8. Results of **Water Supply Monitoring (SPL-001)** as specified in Section II.H.
 - a. If multiple sources are used, the Discharger shall calculate the flow-weighted average concentrations for each constituent monitored. Results must include supporting calculations.
9. A comparison of monitoring data to the flow limitations and discharge specifications and an explanation of any violation of those requirements.
10. Copies of all laboratory analytical reports.
11. A copy of calibration log page(s) verifying calibration of all hand-held monitoring instruments performed during the quarter.

B. FOURTH QUARTER MONITORING REPORT

In addition to the above information, the fourth quarter monitoring report due 1 February of each year shall include the following:

1. Total annual effluent flow (for Monitoring Locations EFF-001 and EFF-002) and the average monthly flows for each month of the year, compared to the total annual flow limitation of the WDRs (Monitoring Location EFF-001 only).
2. Calculate the mass loading for salts (FDS) and total nitrogen for each field within the LAA. The mass of FDS and total nitrogen applied to each LAA field shall be calculated using the following formula and compared to published crop demands for the crops actually grown:

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

- Where:
- M = Mass of nitrogen/FDS applied to the LAA field in lbs/ac/yr
 - C_i = Average concentration of total nitrogen/FDS for the month i in mg/L

V_i = Volume of wastewater applied to the LAA field during calendar month i in million gallons

A = Area of the LAA field irrigated in acres

i = The number of the month (e.g., January = 1, February = 2, etc.)

M_x = Nitrogen/FDS mass from other sources (e.g., fertilizer and compost) in pounds

8.345 = Unit conversion factor

3. A summary of the disposal of solids during the calendar year.
4. A discussion of annual chemical usage at the Facility (e.g., chemical name, purpose, and quantity used).
5. A discussion of compliance and the corrective actions taken, as well as any planned or proposed actions needed to bring the discharge into full compliance with the waste discharge requirements.
6. A summary of any changes in processing that might affect waste characterization and/or discharge flow rates.
7. Monitoring equipment maintenance and calibration records, as described in Standard Provision C.4.
8. A discussion of any data gaps and potential deficiencies or redundancies in the monitoring system or reporting program.

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 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. on the 30th day after the date of this Order; if the 30th day 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 Internet (at the address below), and will be provided upon request.

http://www.waterboards.ca.gov/public_notices/petitions/water_quality

The Discharger shall implement the above monitoring program starting 1 January 2021.

I, PATRICK PULUPA, Executive Officer, do hereby certify the forgoing is a full, true and correct copy of the Monitoring and Reporting Program R5-2020-XXXX issued by the California Regional Water Quality Control Board, Central Valley Region, on X December 2020.

Ordered by:

PATRICK PULUPA, Executive Officer

(Date)

MRP Glossary

BOD ₅	Five-day biochemical oxygen demand at 20° C
CaCO ₃	Calcium carbonate
CIMIS	California Irrigation Management Information System
DO	Dissolved oxygen
EC	Electrical conductivity at 25° C
NTU	Nephelometric turbidity unit
TKN	Total Kjeldahl nitrogen
TDS	Total dissolved solids
FDS	Fixed dissolved solids
TSS	Total suspended solids
Continuous	The specified parameter shall be measured by a meter continuously.
24-hr Composite Sample	shall be a flow-proportioned composite consisting of at least eight aliquots over a 24-hour period.
Daily	Once per calendar day
1/Week	Once per week.
2/Week	Twice per week on non-consecutive days.
1/Month	Once per calendar month
2/Month	Twice per month during non-consecutive weeks.
1/Quarter	Once per calendar quarter.
1/Year	Once per year.
mg/L	Milligrams per liter
µg/L	Micrograms per liter
µmhos/cm	Micromhos per centimeter
gpd	Gallons per day
mgd	Million gallons per day
Standard Minerals	Alkalinity (as CaCO ₃), aluminum, bicarbonate (as CaCO ₃), boron, calcium, carbonate (as CaCO ₃), chloride, iron, magnesium, manganese, phosphorus, potassium, sodium, sulfate, TDS, and verification that the analysis is complete (i.e., anion/cation balance).