

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
CENTRAL VALLEY REGION

MONITORING AND REPORTING PROGRAM R5-2019-0908  
FOR  
JEFF WICHMANN  
PHL ASSOCIATES, INC  
YOLO COUNTY

This Monitoring and Reporting Program (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 Executive Officer.

Section 13267 of the California Water Code 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.”*

Section 13268 of the California Water Code 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 and information provided therein, is guilty of a misdemeanor and may be liable civilly in accordance with subdivision (b).*

*(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.”*

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

## I. GENERAL MONITORING REQUIREMENTS

### A. FLOW MONITORING

Hydraulic flow rates shall be measured at the monitoring points specified in the MRP. Central Valley Water Board staff shall approve any proposed changes to flow monitoring location prior to implementation of the change. 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 flowmeter 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 SAMPLING LOCATIONS

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

The Discharger shall monitor the following location to demonstrate compliance with the requirements of the General Order.

<b>Monitoring Location</b>	<b>Monitoring Location Description</b>
PWW-001	Location where a representative sample of the process wastewater (consisting of water from the fermenter heat exchanger, boiler, and autoclaves) can be obtained prior to discharge to the land application area.
SIW-001	Location where a representative sample of the supplemental irrigation water can be obtained prior to discharge to the land application area.

### 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 the MRP, grab samples will be considered representative of water, wastewater, soil, solids/sludges, and groundwater.

Field testing instruments (such as those used to test pH and dissolved oxygen) may be used provided that:

1. The operator is trained in proper use and maintenance of the instruments;
2. The instruments are calibrated prior to each monitoring event;

3. The instruments are serviced and/or calibrated by the manufacturer at the recommended frequency;
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 U.S. Environmental Protection Agency or the State Water Resources Control Board's Environmental Laboratory Accreditation Program (ELAP). The Dischargers 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/limits for the constituents to be analyzed.

## II. SPECIFIC MONITORING REQUIREMENTS

### A. WASTEWATER MONITORING

The Discharger shall monitor the wastewater discharged to the land application area. The sample shall be representative of the waste character discharged to the land application area. At a minimum, the sample shall be monitored as specified below:

<b>Constituent/Parameter</b>	<b>Units</b>	<b>Type of Sample</b>	<b>Sampling/Reporting Frequency</b>
Flow	gallons	Meter	Annual
Electrical Conductivity	µmhos/cm	Grab	Semi-Annual
Total Dissolved Solids	mg/L	Grab	Semi-Annual
Nitrates	mg/L	Grab	Semi-Annual

Flow measurement shall be observed from a flow meter or based on pump run time meter readings. The total annual flow shall be reported in the semi-annual report. Electrical conductivity may be measured using an appropriate field test instrument. The time, date, and location of each grab sample shall be recorded on the sample chain of custody form. Semi-annual testing shall occur in the first (January through March) and third (July through September) quarter of each calendar year.

If monitoring consistently shows no significant variation in a constituent concentration after at least 4 consecutive monitoring events, the Discharger may request that this MRP be revised to reduce monitoring frequency, constituent analyses, or monitoring parameters. The proposal must include adequate technical justification for 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.

### **B. SUPPLEMENTAL IRRIGATION WATER MONITORING**

Supplemental irrigation water discharged to the land application area shall be monitored as specified below:

<b>Constituent/Parameter</b>	<b>Units</b>	<b>Type of Sample</b>	<b>Sampling/Reporting Frequency</b>
Supplemental Irrigation Water Flow	gallons	Meter	Annual

Flow measurement shall be observed from a flow meter or based on pump run time meter readings. The total annual flow shall be reported in the semi-annual report.

### **III. REPORTING REQUIREMENTS**

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](mailto: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 submittal is routed to the appropriate staff person, the following information should be included in the body of the email or any documentation submitted to the mailing address for this office:

Facility Name: PHL Associates, Inc.  
Program: Non-15 Compliance  
Order: WQO 2003-0003-DWQ-0200  
CIWQS Place ID: 861542

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 to the Central Valley Water Board.

Monitoring reports shall be submitted to the Central Valley Water Board in accordance with the following schedule:

<b>Reporting Frequency</b>	<b>Report Period</b>	<b>Report Due</b>
Semi-Annual	January – June	15 August
Semi-Annual	July - December	15 February

A letter transmitting the self-monitoring reports shall accompany each report. The letter shall clearly indicate the submitting Discharger's name, facility or site name, county, monitoring period, and type of report (i.e., monthly, quarterly, or annual). The letter shall include a discussion of any requirement violations 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. Pursuant to the Standard Provisions and Reporting Requirements for Waste Discharge Requirements, March 1991 edition, the transmittal letter shall contain a statement by the Discharger or its authorized agent, under penalty of perjury, that to the best of the signer's knowledge, the report is true, accurate, and complete. The Discharger shall implement the above monitoring program as of the date of this Order.

I, PATRICK PULUPA, Executive Officer, do hereby certify the foregoing is a full and correct copy of an Order adopted by the California Regional Water Quality Control Board, Central Valley Region on 15 October 2019.

*- original signed by Robert Busby for -*

PATRICK PULUPA, Executive Officer

## Glossary

2x/Wk. ....	Twice Weekly on Nonconsecutive Days
24-Hr. Composite ...	Flow-Proportioned Composite of 8+ Aliquots over a 24-Hour Period
Annually .....	Once per Calendar Year
BOD <sub>5</sub> .....	Five-Day Biochemical Oxygen Demand
Bimonthly .....	Six Times per Calendar Year (Nonconsecutive Months Only)
BMPs.....	Best Management Practices
CaCO <sub>3</sub> .....	Calcium Carbonate
CEQA .....	California Environmental Quality Act
Continuous .....	Measured by Meter on Continuous Basis
Daily .....	Every Day, Excluding Weekends (Saturday-Sunday) and Federal/State Holidays
DO.....	Dissolved Oxygen
EC .....	Electrical Conductivity at 25°C
ELAP .....	State Water Resources Control Board, Division of Drinking Water, Environmental Laboratory Accreditation Program
FDS .....	Fixed Dissolved Solids
HDPE .....	High-Density Polyethylene Liner
Grab .....	Single Sample or Measurement Taken at a Specific Time
GPD .....	Gallons per Day
MGD.....	Millions of Gallons per Day
LAA(s) .....	Land Application Area(s)
MCLs.....	Maximum Contaminant Levels
MDL.....	Method Detection Limit
µg/L .....	Micrograms per Liter

µmhos/cm..... Micromhos per Centimeter  
mg/L ..... Milligrams per Liter  
mL/L ..... Milliliters of Solids per Liter  
Monthly..... Once per Calendar Month  
MRP ..... Monitoring and Reporting Program  
MTF ..... Multiple Tube Fermentation  
NTU(s)..... Nephelometric Turbidity Unit(s)  
PQL..... Practical Quantitation Limit  
Quarterly ..... Once per Calendar Quarter  
RL..... Reporting Limit  
Semiannually..... Twice per Calendar Year in Nonconsecutive Quarters  
Title 22 ..... California Code of Regulations, title 22  
Title 23 ..... California Code of Regulations, title 23  
Title 27 ..... California Code of Regulations, title 27  
TDS ..... Total Dissolved Solids  
TSS ..... Total Suspended Solids  
WDRs..... Waste Discharge Requirements  
Weekly ..... Once per Week