

MONITORING AND REPORTING PROGRAM (MRP) NO. R3-2017-0020

for

DISCHARGES ENROLLED UNDER GENERAL WASTE DISCHARGE REQUIREMENTS FOR DISCHARGES OF WINERY WASTE CENTRAL COAST REGION

Dischargers regulated under the General WDRs for Discharges of Winery Waste shall be subject to the following monitoring and reporting requirements, unless such requirements are modified or waived by the Executive Officer. Additional requirements may be added by the Executive Officer, as needed to adequately ensure compliance with the General WDRs.

WATER SUPPLY MONITORING

Representative samples of the winery water supply shall be collected and analyzed as follows:

Constituent	Units	Sample Type	Minimum Frequency of Sampling and Analysis
Total Dissolved Solids	mg/L	Grab	Annually
Chloride	mg/L	Grab	" "
Sodium	mg/L	Grab	" "
Boron	mg/L	Grab	" "
pH	--	Grab	" "

PRODUCTION MONITORING

Winery production shall be reported as follows:

Parameter	Units	Sample Type	Reporting Frequency
Start of Crush	Dates	--	Annually
End of Crush	Dates	--	" "
Duration of Crush	Days	--	" "
Grapes Crushed	Tons/year	Measured	" "
Wine Production	Cases/year	Measured	" "

CHEMICAL USAGE MONITORING

A summary of volumes and types of any chemicals used at the winery shall be included with each monitoring report.

EFFLUENT MONITORING

Representative samples of effluent from the treatment system, immediately prior to disposal, before the treated wastewater is blended with any other water source, shall be collected and analyzed according to the following schedule:

Constituent	Units	Sample Type	Minimum Frequency of Sampling and Analysis		
			Wineries generating less than 3,000 gpd wastewater at all times.	Wineries generating greater than 3,000 gpd, but less than 50,000 gpd wastewater at any time	Wineries generating greater than 50,000 gpd wastewater at any time
Flow	gallons per day (gpd)	Metered	Weekly	Daily during crush, and weekly for the remainder of year	Daily
Peak Daily Flow	gpd	Calculated	Annually	Annually	Annually
Avg. Daily Flow During Crush	gpd	Calculated	Annually	Annually	Annually
pH	pH units	Grab	At least twice during crush	Weekly during crush, and monthly for the remainder of year	Daily during crush, and weekly for the remainder of year
Biochemical Oxygen Demand (BOD ₅) or Chemical Oxygen Demand (COD)	mg/L	Grab	Annually, during crush	Semiannually, at least once during crush	Quarterly, at least twice during crush
Total Dissolved Solids	mg/L	Grab	" "	" "	" "
Chloride	mg/L	Grab	" "	" "	" "
Sodium	mg/L	Grab	" "	" "	" "
Nitrate (as N)	mg/L	Grab	" "	" "	" "
Total Nitrogen	mg/L	Grab	" "	" "	" "
Sulfate	mg/L	Grab	" "	" "	" "
Dissolved Oxygen	mg/L	Grab	" "	" "	" "
In addition to the above, facilities which use any form of chlorine for cleaning and/or disinfection shall analyze effluent samples for the following:					
Total Chlorine Residual	mg/L	Grab	Annually (after equipment cleaning)	Annually (after equipment cleaning)	Annually (after equipment cleaning)
1,2 Dichloroethane	mg/L	Grab	" "	" "	" "
1,1 Dichloroethylene	mg/L	Grab	" "	" "	" "
1,1,2 Trichloroethane	mg/L	Grab	" "	" "	" "

SEPTIC SYSTEM MONITORING

Solids accumulation in all septic tanks shall be measured semiannually, before and after crush, and the tanks cleaned when it appears (a) the bottom of the scum (floating) layer will be within 4 inches of the bottom of the outlet device or (b) the sludge level will be within 10 inches of the outlet device before the next scheduled inspection. The leachfield areas shall be inspected each month to evaluate adequate system operation and compliance with this Order. Leachfields should be alternated no less than semiannually to prevent clogging and surfacing effluent. Notations shall be made in a bound log book and include observations of sludge and scum levels and dates which leachfields are alternated. A summary of the entries made in the log shall be submitted with each monitoring report.

DISPOSAL AREA MONITORING

The Discharger shall inspect and document the condition of winery wastewater disposal areas at least once per week during the crush season. Notations shall be made in a bound log book and include observations of available freeboard in ponds, algal growth in ponds, excessive ponding and soil clogging in spreading basins, odors, insects, or other potential nuisance conditions that may be present. Any problems shall be promptly corrected. A record shall be kept of the dates and nature of observations and corrective actions taken. A summary of the entries made in the log shall be submitted with each monitoring report.

DISPOSAL AREA SOILS MONITORING

The Discharger shall implement disposal area soils monitoring **if deemed necessary** by the Executive Officer. In general, large wineries that discharge concentrated wastewater that is not adequately neutralized (to between pH 6.5 and 8.4) to soils with poor buffering capacity must perform soils monitoring according to the following instructions. The Discharger shall establish a soil profile monitoring location that is representative of the disposal area. This sampling location shall be provided on a map submitted to the Regional Board for concurrence by the Executive Officer. Samples shall be collected and analyzed for the following constituents:

Constituent	Unit	Method	Sample Depths ²	Frequency
Soil pH	pH units	1:2 DI Water (soil to solution ratio)	6 inches and 2 ft.	Annually (November)
Total Acidity	meq H ⁺ / 100 g soil	Measured by BaCl ₂ – TEA (pH 8.3) ¹	6 inches and 2 ft.	Annually (November)

Notes:

1. See Methods of Soil Analysis (cosponsored by ASTM), American Society of Agronomy, Inc., Madison, WI.
2. Below base of disposal area.

Lime Application – If Soil pH is less than or equal to 6.0, the Discharger shall add lime to neutralize the disposal area soils. The amount of lime required for full neutralization is directly related to Total Acidity. For any representative sample of disposal area soils, multiply the Total Acidity value (meq of H⁺/ 100 g soil) by 2000 to get the maximum lime application rate in lbs. pure lime per acre. The amount of lime applied should not exceed the calculated value.

NOTE: Any gypsum (CaSO₄*2H₂O) applied to increase hydraulic conductivity does not neutralize acidity (gypsum is a neutral salt).

GROUNDWATER MONITORING

The Discharger shall implement groundwater monitoring **if deemed necessary** by the Executive Officer. In general, facilities which discharge winery waste that is not adequately treated (biologically stabilized and neutralized) to unlined ponds or spreading basins, in areas where depth to groundwater is shallow, are required to perform regular groundwater monitoring. Groundwater samples shall be collected from at least three representative monitoring wells, one upgradient and two downgradient of the disposal area, and analyzed as follows:

Constituent	Units	Sample Type	Minimum Frequency of Sampling and Analysis
Depth to groundwater	Feet below ground surface	Measured	Semi-annually (May and November)
pH	pH units	Grab	Annually (November)
Total Dissolved Solids	mg/L	Grab	Annually (November)
Chloride	mg/L	Grab	Annually (November)
Sodium	mg/L	Grab	Annually (November)
Hardness	mg/L as CaCO ₃	Grab	Annually (November)
Manganese	mg/L	Grab	Annually (November)
Nitrate (as N)	mg/L	Grab	Annually (November)
Sulfate	mg/L	Grab	Annually (November)

SOLID WASTE DISPOSAL MONITORING

A summary of estimated volumes and disposal locations of screenings, tank residues, and solids shall be included with each monitoring report.

SAMPLING AND ANALYSIS PROVISIONS

1. All sampling, sample preservation, and analysis shall be performed in accordance with the latest edition of 40 CFR Part 136 "Guidelines Establishing Test Procedures for the Analysis of Pollutants". The Executive Officer may specify test methods that are more sensitive than those specified in 40 CFR Part 136.
2. Periodic samples shall be taken at regular intervals and be representative of the monitored activity. For example, where quarterly samples are required, samples shall be collected on a representative day of March, June, September, and December of each year.
3. All analytical services shall be conducted at a laboratory certified for such analyses by the State Department of Health, or at a laboratory approved by the Executive Officer.
4. All analytical data shall be reported with method detection limits (MDLs) and with identification of either practical quantitation levels (PQLs) or limits of quantitation (LOQs).
5. All monitoring instruments and devices used by the discharger to fulfill this Monitoring and Reporting Program shall be properly maintained and calibrated, as necessary to ensure their continued accuracy.

REPORTING PROVISIONS

1. Monitoring reports shall be submitted to the Water Board annually, **by February 1 of each year**. Monitoring reports shall contain all monitoring data obtained during the previous calendar year. The report shall discuss the compliance record and corrective actions taken, or which may be needed, to bring the discharge into full compliance with the General WDRs. Monitoring reports may be required more frequently as deemed necessary by the Executive Officer, based on review of the NOI and site/facility specific information.
2. Monitoring data shall be arranged in tabular format so that the date, constituents, and concentrations are readily discernible. The data shall be summarized in such a manner to clearly illustrate whether the discharge complies with effluent limitations.
3. The Discharger shall submit monitoring data and monitoring reports electronically. Convert all documents to a searchable PDF format and email to: centralcoast@waterboards.ca.gov using the attached Transmittal Sheet as the cover page. PDF documents that exceed 10MB should be transferred to a CD and mailed to us. Electronic report templates are available by contacting Water Board staff at (805) 549-3147.
4. If the Discharger monitors any pollutant more frequently than is required by this monitoring program, the results of such monitoring shall be included in the monitoring reports (i.e., quarterly groundwater elevation, etc.).
5. All monitoring reports shall be signed and certified in accordance with Section E.10 and 11 of the General WDRs.
6. The Discharger shall deliver a copy of each monitoring report in the appropriate format to the Central Coast Regional Water Quality Control Board at the following address:

895 Aerovista Place, Suite 101
San Luis Obispo, CA 93401
7. The Discharger shall ensure that records of all monitoring information are maintained and accessible for a period of at least five years from the date of the sample. This period of retention shall be extended during the course of any unresolved litigation regarding this discharge or by the request of the Executive Officer. Records of monitoring information shall include:
 - a. The date, exact place, and time of sampling or measurements;
 - b. The individual(s) who performed the sampling, and/or measurements;
 - c. The date(s) analyses were performed;
 - d. The individual(s) who performed the analyses;
 - e. The analytical techniques or methods used;
 - f. All sampling and analytical results;
 - g. All monitoring equipment calibration and maintenance records.
8. The Discharger shall immediately report any non-compliance potentially endangering public health or the environment to the Water Board (805/549-3147) and/or any additional appropriate agency. Any information shall be provided orally within 24 hours from the time the Discharger becomes aware of the circumstances. A written report shall also be submitted to the Executive Officer within five (5) days of the time the Discharger becomes aware of the circumstances. The written report shall contain (1) a description of the non-compliance and its cause; (2) the period of non-compliance, including dates and times, and

if the non-compliance has not been corrected, the anticipated time it is expected to continue; and (3) steps taken or planned to reduce, eliminate, and prevent reoccurrence of the non-compliance.

9. The Discharger shall report all instances of non-compliance not reported under Reporting Provision No. 8 at the time monitoring reports are submitted. The reports shall contain the information listed in Reporting Provision No.8.

Ordered By _____

John M Robertson
Executive Officer

Date: October 2, 2017

HEK

ECM = 840397

PCA = 126-01

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MRP 9-25-2017.doc

Transmittal Sheet

Date:

California Regional Water Quality Control Board
Central Coast Region
Attn: Monitoring and Reporting Review Section
895 Aerovista Place, Suite 101
San Luis Obispo, CA 93401

Facility

Name:

Address:

Contact

Person: Job

Title:

Phone Number:

WDR/NPDES Order

Number: WDID Number:

Type of Report (circle one):

Monthly Quarterly Semi-Annual Annual

Month(s) (circle applicable months*):

JAN FEB MAR APR MAY JUN
JUL AUG SEP OCT NOV DEC

*Annual Reports (circle the first month of the reporting period)

Year:

Violation(s) (Place an X by the appropriate choice):

_____ No (there are no violations to report) _____ Yes If "Yes" is marked (complete a-g):

a) Parameter(s) in Violation:

b) Section(s) of
WDR/NPDES Violated:

c) Reported Value (s) _____

d) WDR/NPDES
Limit/Condition: _____

e) Dates of Violation(s)
(Reference page of report/data sheet): _____

f) Explanation of Cause(s):
(Attach additional information
as needed) _____

g) Corrective Action(s):
(Attach additional information
as needed) _____

In accordance with the Standard Provisions and Reporting Requirements, I certify under penalty of law that this document and all attachments were prepared under my direction or supervision following a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my knowledge of the person(s) who manage the system, or those directly responsible for data gathering, 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 fine and imprisonment.

If you have any questions or require additional information, please contact me at the number provided above.

Sincerely,

Name:
Title: