

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
CENTRAL VALLEY REGION

REVISED MONITORING AND REPORTING PROGRAM NO. 88-066 (REVISION 2)  
FOR

MOSKOWITE FAMILY TRUST, MOSS CREEK WINERY, INC.,  
AND BART PROPERTIES, INC.  
MOSS CREEK WINERY  
NAPA COUNTY

This monitoring and reporting program (MRP) incorporates requirements for monitoring of process wastewater, the wastewater storage/disposal pond, residual solids, and groundwater. This MRP is issued pursuant to Water Code Section 13267. All three Dischargers named above are jointly responsible for implementation of this MRP and shall jointly submit the required monitoring reports. The Dischargers 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."*

The Dischargers own and operate the facility that is subject to the WDRs cited herein, and the reports are necessary to ensure that the Dischargers comply with the WDRs. Pursuant to Section 13267 of the California Water Code, the Dischargers shall implement this MRP and shall submit the monitoring reports described herein.

All wastewater samples shall be representative of the volume and nature of the discharge. The time, date, and location of each sample shall be recorded on the sample chain of custody form.

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

1. The operator is trained in the proper use of the instrument;
2. The instruments are field calibrated prior to each use;
3. 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.

### INFLUENT MONITORING

Process wastewater samples shall be collected prior to entering the wastewater storage and disposal pond. Samples may be collected from either of the two sumps. Influent monitoring for the process wastewater system shall include at least the following:

| <u>Constituents</u>            | <u>Units</u> | <u>Type of Sample</u> | <u>Sampling Frequency</u> | <u>Reporting Frequency</u> |
|--------------------------------|--------------|-----------------------|---------------------------|----------------------------|
| Total Flow                     | Gallons      | Meter Observation     | Daily <sup>1</sup>        | Monthly                    |
| Flow (Moss Creek Winery, Inc.) | Gallons      | Meter Observation     | Daily <sup>1</sup>        | Monthly                    |
| Flow (Bart Properties, Inc.)   | Gallons      | Meter Observation     | Daily <sup>1</sup>        | Monthly                    |
| BOD <sub>5</sub> <sup>2</sup>  | mg/L         | Grab                  | Monthly                   | Monthly                    |
| Electrical conductivity        | umhos/cm     | Grab                  | Monthly                   | Monthly                    |

<sup>1</sup> Requires daily meter reading or automated data collection.

<sup>2</sup> Five-day, 20° Celsius biochemical oxygen demand.

### POND MONITORING

Samples shall be collected from an established sampling station located in an area that will provide a sample representative of the wastewater storage and disposal pond. Freeboard shall be measured vertically from the surface of the pond water to the lowest elevation of the surrounding berm and shall be measured to the nearest 0.1 feet. Monitoring shall include, at a minimum, the following:

| <u>Constituent</u>            | <u>Units</u>       | <u>Type of Sample</u> | <u>Sampling Frequency</u> | <u>Reporting Frequency</u> |
|-------------------------------|--------------------|-----------------------|---------------------------|----------------------------|
| Freeboard                     | feet ( $\pm 0.1$ ) | Measurement           | Weekly                    | Monthly                    |
| Dissolved oxygen <sup>1</sup> | mg/L               | Grab                  | Weekly                    | Monthly                    |
| pH                            | pH Units           | Grab                  | Weekly                    | Monthly                    |
| Odors                         | --                 | Observation           | Weekly                    | Monthly                    |
| Berm seepage <sup>2</sup>     | NA                 | Observation           | Weekly                    | Monthly                    |

<sup>1</sup> Samples shall be collected at a depth of one foot, opposite the inlet. Samples shall be collected between 0700 and 0900 hours.

<sup>2</sup> Pond berms shall be observed for signs of seepage and surfacing water along the exterior toe.

### EFFLUENT MONITORING

Process wastewater effluent samples shall be collected from the wastewater storage and disposal pond opposite the pond inlet. Effluent monitoring shall include, at a minimum, the following:

| <u>Constituent</u>             | <u>Units</u> | <u>Type of Sample</u> | <u>Sampling Frequency</u> | <u>Reporting Frequency</u> |
|--------------------------------|--------------|-----------------------|---------------------------|----------------------------|
| BOD <sub>5</sub>               | mg/L         | Grab                  | Monthly                   | Monthly                    |
| EC                             | umhos/cm     | Grab                  | Monthly                   | Monthly                    |
| Total dissolved solids         | mg/L         | Grab                  | Monthly <sup>2</sup>      | Monthly                    |
| Fixed dissolved solids         | mg/L         | Grab                  | Monthly <sup>2</sup>      | Monthly                    |
| Nitrate nitrogen               | mg/L         | Grab                  | Monthly                   | Monthly                    |
| Total Kjeldahl nitrogen        | mg/L         | Grab                  | Monthly                   | Monthly                    |
| Sodium                         | mg/L         | Grab                  | Monthly                   | Monthly                    |
| Chloride                       | mg/L         | Grab                  | Monthly                   | Monthly                    |
| Sulfate                        | mg/L         | Grab                  | Monthly                   | Monthly                    |
| Standard minerals <sup>1</sup> | mg/L         | Grab                  | Annually                  | Annually                   |

<sup>1</sup> Standard minerals shall include the following: boron, calcium, iron, manganese, magnesium, potassium, total alkalinity (including alkalinity series), and hardness.

<sup>2</sup> These analyses shall be conducted monthly for twelve consecutive monitoring events. Thereafter, the sampling and reporting frequency shall be annually.

## RESIDUAL SOLIDS MONITORING

The Dischargers shall record and report monthly the quantity, disposal location, and method of disposal of residual solids disposed of during the processing season (e.g., pomace and lees), as well as during the off-season, if applicable. If solid waste is shipped offsite, then an estimated amount and location of disposal shall be reported in the monthly report and the hauler identified.

## GROUNDWATER MONITORING

Prior to construction and/or sampling of any groundwater monitoring wells, the Dischargers shall submit plans and specifications to the Regional Water Board for review and approval. Once installed, all new wells shall be added to the MRP and shall be sampled and analyzed according to the schedule below. All samples shall be collected using approved EPA methods and water table elevations shall be calculated and used to determine groundwater gradient and direction of flow.

Prior to sampling, the groundwater elevations shall be measured and the wells shall be purged of at least three well volumes until temperature, pH, and electrical conductivity have stabilized. Depth to groundwater shall be measured to the nearest 0.01 feet. Groundwater monitoring shall include, at a minimum, the following:

| <u>Constituent</u>                 | <u>Units</u> | <u>Type of Sample</u> | <u>Sampling and Reporting Frequency</u> |
|------------------------------------|--------------|-----------------------|-----------------------------------------|
| Depth to Groundwater               | 0.01 feet    | Measurement           | Quarterly                               |
| Groundwater Elevation <sup>1</sup> | 0.01 feet    | Calculated            | Quarterly                               |
| Gradient                           | feet/feet    | Calculated            | Quarterly                               |
| Gradient Direction                 | degrees      | Calculated            | Quarterly                               |
| pH                                 | std.         | Grab                  | Quarterly                               |
| EC                                 | umhos/cm     | Grab                  | Quarterly                               |
| Total dissolved solids             | mg/L         | Grab                  | Quarterly <sup>3</sup>                  |
| Fixed dissolved solids             | mg/L         | Grab                  | Quarterly <sup>3</sup>                  |
| Nitrate nitrogen                   | mg/L         | Grab                  | Quarterly                               |
| Sodium                             | mg/L         | Grab                  | Quarterly                               |
| Chloride                           | mg/L         | Grab                  | Quarterly                               |
| Sulfate                            | mg/L         | Grab                  | Quarterly                               |
| Standard Minerals <sup>2</sup>     | mg/L         | Grab                  | Quarterly <sup>3</sup>                  |

<sup>1</sup> Groundwater elevation shall be determined based on depth-to-water measurements from a surveyed measuring point elevation on the well.

<sup>2</sup> Standard Minerals shall include the following: boron, calcium, iron, manganese, magnesium, potassium, total alkalinity (including alkalinity series), and hardness.

<sup>3</sup> These analyses shall be conducted quarterly for eight consecutive monitoring events. Thereafter, the sampling and reporting frequency shall be annually.

## REPORTING

In reporting monitoring data, the Dischargers shall arrange the data in tabular form so that the date, sample type (e.g., process wastewater effluent), 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.

### A. Monthly Monitoring Reports

Monthly reports shall be submitted to the Regional Board by the **1<sup>st</sup> day of the second month** following the end of the reporting period (i.e. the January monthly report is due by 1 March). The monthly reports shall include the following:

1. Results of influent, pond effluent, and solids monitoring;
2. The cumulative volume of wastewater generated during the year to date;
3. A comparison of monitoring data to the discharge specifications and an explanation of any violation of those requirements. Data shall be presented in tabular format;
4. If requested by staff, copies of laboratory analytical report(s); and
5. A calibration log verifying calibration of all hand held monitoring instruments and devices used to comply with the prescribed monitoring program.

### B. Quarterly Monitoring Reports

**Beginning with the third quarter of 2009**, the Dischargers 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 **1<sup>st</sup> day of the second month after the quarter** (i.e. the January-March quarterly report is due by May 1<sup>st</sup>) and may be combined with the monthly report. The Quarterly Report shall include the following:

1. Results of groundwater monitoring;
2. A narrative description of all preparatory, monitoring, sampling, and analytical testing activities for the groundwater monitoring. The narrative shall be sufficiently detailed to verify compliance with the WDR, this MRP, and the Standard Provisions and Reporting Requirements. 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;

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 trends, 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; and
8. Copies of laboratory analytical report(s) for groundwater monitoring.

### **C. Annual Monitoring Reports**

An Annual Report shall be prepared as the December monthly monitoring report and shall include all monitoring data required in the monthly schedule. The Annual Report shall be submitted to the Regional Board by **1 February of each year** and shall include the following.

1. If requested by staff, tabular and graphical summaries of all data collected during the year;
2. An evaluation of the performance of the wastewater pond system, as well as a forecast of the flows anticipated in the next year;
3. A discussion of compliance and the corrective action taken, as well as any planned or proposed actions needed to bring the discharge into full compliance with the waste discharge requirements; and
4. A discussion of any data gaps and potential deficiencies/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 WDRs violations found during the reporting period, and actions taken or planned for correcting noted violations, such as operation or facility modifications. If the Dischargers have 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. The transmittal letter shall contain the certification statement by the Dischargers, or the Dischargers'

The Dischargers shall implement the above monitoring and reporting program on the first day of the month following adoption of this Order.

Original signed by \_\_\_\_\_  
Ordered by: \_\_\_\_\_  
PAMELA C. CREEDON, Executive Officer

Date \_\_\_\_\_

alo: 5/1/08