

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

MONITORING AND REPORTING PROGRAM NO. R5-__

FOR.
PRIMA BELLA PRODUCE, INC. AND MARK BACCHETTI
PRIMA BELLA FOOD PROCESSING FACILITY
SAN JOAQUIN COUNTY

This Monitoring and Reporting Program (MRP) incorporates requirements for monitoring of wastewater flow, treated effluent, ponds, the land application area, and residual solids. This 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.

All wastewater samples shall be representative of the volume and nature of the discharge. The time, date, and location of each grab sample shall be recorded on the sample chain of custody form. Wastewater flow monitoring shall be conducted continuously using a flow meter and shall be reported in cumulative gallons per day.

Field test instruments (such as pH and dissolved oxygen) 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.

Monitoring of the following parameters is required only in the months in which processing activity is occurring. In all months in which processing is not occurring, a statement describing the facility as inactive shall be submitted.

WASTEWATER FLOW MONITORING

Wastewater flow monitoring shall be performed prior to discharge into the wastewater pond. Monitoring 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>
Flow	gallons	Continuous	Daily ¹	Monthly
Cumulative Annual Flow ¹	gallons	Continuous	Monthly ¹	Monthly

¹ Continuous monitoring requires daily meter reading or automated data collection using a meter equipped with a totalizer. Cumulative annual flow means the cumulative total for the calendar year to date.

TREATED EFFLUENT MONITORING

Wastewater samples shall be collected from sampling stations located in an area that will provide representative samples of the treated wastewater that will be applied to land. Samples shall be collected from the storage portion of the wastewater pond when that is being used. During low flow conditions, when the storage portion of the pond is not used, samples shall be collected from the treatment cell portion of the pond. It is recognized that the water may include wastewater, supplemental irrigation water, and/or mixtures of the two water sources.

<u>Constituent</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>	<u>Reporting Frequency</u>
Sample Collection Location ¹	NA	Reported	Weekly	Monthly
Electrical Conductivity	umhos/cm	Grab	Weekly	Monthly
Biochemical Oxygen Demand	mg/L	Grab	Monthly	Monthly
Total Nitrogen	mg/L	Grab	Monthly	Monthly
Fixed Dissolved Solids	mg/L	Grab	Monthly	Monthly
Sodium	mg/L	Grab	Monthly	Monthly
Chloride	mg/L	Grab	Monthly	Monthly

¹ The monitoring reports shall state whether samples were obtained from the aeration cell or storage cell.

POND MONITORING

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 of the pond 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>
Dissolved Oxygen ¹	mg/L	Grab	Weekly	Monthly
Freeboard	feet (±0.1)	Measurement	Weekly	Monthly
pH ²	pH Units	Grab	Weekly	Monthly
Odors	--	Observation	Weekly	Monthly

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

² Samples shall be collected between 0700 and 0900 hours.

LAND APPLICATION AREA MONITORING

The Discharger shall monitor wastewater applied to each irrigation check of the land application area. Monitoring shall be conducted **daily during operation** and the results shall be included in the monthly monitoring report. Evidence of erosion, field saturation, runoff, or the presence of nuisance conditions shall be noted in the report. Loading rates for each check shall be calculated. Monitoring of the land application area shall include the following:

<u>Constituent</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>	<u>Reporting Frequency</u>
Wastewater Flow ¹	Gallons	Continuous ¹	Daily	Monthly
Supplemental Irrigation Flow ²	Gallons	Calculated ²	Daily	Monthly
Local Rainfall ³	Inches	Measurement	Daily	Monthly
Acreage Applied ⁴	Acres	Calculated	Daily	Monthly
Application Rate	gal/acre·day	Calculated	Daily	Monthly
BOD Loading Rate ⁵	lbs/acre/day	Calculated	Daily	Monthly
Total Nitrogen Loading Rate ⁶	lbs/acre/month ⁷	Calculated	Monthly	Monthly
FDS Loading Rate	lbs/acre/month ⁷	Calculated	Monthly	Monthly
Tailwater Control System ⁸	NA	Inspection	Monthly	Monthly

- ¹ Continuous monitoring requires daily meter reading or automated data collection and shall define the volume of wastewater discharged to the land application areas from the wastewater pond.
- ² Supplemental irrigation flow amounts and irrigation amounts shall be metered or calculated.
- ³ Rainfall can be measured onsite or reported from a nearby government operated rain gauge station.
- ⁴ Irrigation checks in use shall be identified by name or number and the acreage provided. If a portion of an area is used, then the acreage shall be estimated.
- ⁵ Calculate the daily application rate and the 7-day average application rate.
- ⁶ Total nitrogen applied from all sources, including fertilizers and supplemental irrigation water, if used.
- ⁷ Report monthly total and cumulative annual loading rate to date.
- ⁸ Tailwater control system inspection shall consist of determining the presence or absence of tailwater.

At least **once per week** when wastewater is being applied to the land application area, the entire application area shall be inspected to identify any equipment malfunction or other circumstance that might allow irrigation or storm water runoff to leave the area and/or create ponding conditions that violate the Waste Discharge Requirements. A log of these inspections shall be kept at the facility and be submitted with the monthly monitoring reports. If wastewater was not applied to the land application area, then the monthly monitoring report shall so state.

SOLIDS MONITORING

The Discharger shall record and report monthly the quantity, disposal location, and method of disposal of food processing related solids disposed of during the processing season, as well as during the off-season, if applicable. If solid waste is shipped offsite during the reporting period, then an estimated amount and location of disposal shall be reported in the monthly report and the hauler identified. Paper, plastic, and other trash (e.g. office generated trash) not related to food processing is not included in this requirement.

REPORTING

As previously stated, monitoring of the following parameters is required only in the months in which processing activity is occurring. In all months in which processing is not occurring, a statement describing the facility as inactive shall be submitted.

In reporting monitoring data, the Discharger shall arrange the data in tabular form so that the date, sample type (e.g., wastewater pond monitoring), 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 **1st 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 wastewater flow, wastewater pond treated effluent, land application area, and solids monitoring;
2. A comparison of monitoring data to the discharge specifications and effluent limitations, disclosure of any violations of the WDRs, and an explanation of any violation of those requirements. Data shall be presented in tabular format. Wastewater constituent loading rates shall be calculated as presented in WDRs Section C, Effluent Limitations.
3. If requested by staff, copies of laboratory analytical report(s);
4. A calibration log verifying calibration of all hand held monitoring instruments and devices used to comply with the prescribed monitoring program;
5. The cumulative volume of wastewater generated during the year to date;
6. The total pounds of total dissolved solids and fixed dissolved solids (year to date) that have been applied to the land application areas, as calculated from the sum of monthly loadings;
7. The total pounds of nitrogen (year to date, from all sources including fertilizer) applied to the land application area as calculated from the sum of monthly loadings; and
8. A summary of the quantity of solid waste (corn husks, kernels, stems, etc.) generated and disposed of off-site.

C. Annual Report

In addition to the monthly reports, an annual report shall be prepared. The Annual Report shall be submitted to the Central Valley Water Board by **1 February** each year. The Annual Report shall include the following:

1. Tabular and graphical summaries of all data collected during the year.

2. Tabular and graphical summaries of historical monthly total loading rates for wastewater generation, treated wastewater used for irrigation (hydraulic loading in gallons/acre and inches), total nitrogen (lbs/ac/yr), total dissolved solids (lbs/ac/yr), and fixed dissolved solids (lbs/ac/yr). Tabular and graphical summaries of historical annual wastewater flow.
3. A comprehensive evaluation of the effectiveness of the past year's wastewater application operation in terms of odor control and groundwater protection, including consideration of application management practices (e.g., waste constituent and hydraulic loadings, application cycles, drying times, and cropping practices), and groundwater monitoring data.
4. A summary of the vegetative material (crops) removed from the LAAs. The summary shall include harvest dates, crop type, and disposal area/method.
5. A description of salinity source control methods that have been implemented in the calendar year.
6. Estimated flows for the next calendar year.
7. A discussion of compliance and corrective actions taken, as well as any planned or proposed actions needed to bring the discharge into full compliance with the waste discharge requirements.
8. 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. Such a letter shall include a discussion of requirement violations found 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. The transmittal letter shall contain a statement by the Discharger, or the Discharger's 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.

Ordered by: _____
PAMELA C. CREEDON, Executive Officer

(Date)