

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
CENTRAL VALLEY REGION

MONITORING AND REPORTING PROGRAM NO. R5-2007-  
FOR  
SIERRA NEVADA CHEESE COMPANY, INC.  
AND  
GREGERSEN PROPERTIES LLC  
CHEESE PRODUCTION FACILITY  
GLENN COUNTY

The Discharger shall comply with this Monitoring and Reporting Program (MRP), issued pursuant to California Water Code Section 13267, which describes requirements for monitoring industrial flows, wastewater ponds, groundwater, and solids. The Discharger shall not implement any changes to this MRP unless and until a revised MRP is issued by the Executive Officer.

All samples should be representative of the volume and nature of the discharge or matrix of material sampled. The time, date, and location of each grab sample shall be recorded on the sample chain of custody form. Field test 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 field calibrated prior to each monitoring event;
3. Instruments are serviced and/or calibrated per the manufacturer's recommended frequency; and
4. A statement is provided annually, certifying when the flow meters and other monitoring instruments and devices were last calibrated (Standard Provision C.3).

### FLOW MONITORING

Process and cooling water flows shall be measured prior to the discharge to the wastewater ponds. Process and cooling water monitoring shall include, at a minimum, the following:

<u>Parameter</u>	<u>Reporting Units</u>	<u>Type of Measurement</u>	<u>Reporting Frequency</u>
<b>Process Water Flow<sup>1</sup></b>			
• Daily Flow	gallons/day	Meter, Continuous	Monthly
• Total Monthly Flow	gallons/month	Meter or Computed	Monthly
• Average Daily Flow	gallons/day	Computed	Monthly
<b>Non-contact Cooling Water Flow<sup>2</sup></b>			
• Daily Flow	gallons/day	Meter, Continuous	Monthly
• Total Monthly Flow	gallons/month	Meter or Computed	Monthly
• Average Daily Flow	gallons/day	Computed	Monthly

1. The total of all process water flows shall include whey waters, wash waters, and boiler blowdown.
2. The total of all cooling water flows shall include compressor and vat cooling waters.

## POND MONITORING

Pond monitoring shall be conducted as described below. If any pond is dry, the monitoring report shall so state. Water samples from the ponds shall be collected as grab samples at a depth of one foot from each pond in use, opposite the inlet, in a quiescent surface area.

<u>Parameter/Constituent</u>	<u>Units</u>	<u>Monitoring Frequency</u>	<u>Reporting Frequency</u>	<u>Pond(s)</u>
Freeboard <sup>1</sup>	0.1 feet	Weekly	Monthly	1 through 7
Berm Seepage <sup>2</sup>	Observation	Weekly	Monthly	1 through 7
Odors	Observation	Weekly	Monthly	1 through 7
Dissolved Oxygen	mg/L	Weekly	Monthly	1 through 7
pH	pH units	Monthly <sup>3</sup>	Monthly <sup>3</sup>	1
Electrical Conductivity	umhos/cm	Monthly <sup>3</sup>	Monthly <sup>3</sup>	1
20°C BOD <sub>5</sub>	mg/L	Monthly <sup>3</sup>	Monthly <sup>3</sup>	1
Ammonia (as NH <sub>3</sub> )	mg/L	Monthly <sup>3</sup>	Monthly <sup>3</sup>	1
Kjeldahl Nitrogen	mg/L	Monthly <sup>3</sup>	Monthly <sup>3</sup>	1
Nitrate (as N)	mg/L	Monthly <sup>3</sup>	Monthly <sup>3</sup>	1
Total Dissolved Solids	mg/L	Monthly <sup>3</sup>	Monthly <sup>3</sup>	1
Fixed Dissolved Solids	mg/L	Monthly <sup>3</sup>	Monthly <sup>3</sup>	1
General Minerals <sup>4</sup>	mg/L	Monthly <sup>3</sup>	Monthly <sup>3</sup>	1

1. To be measured vertically from the water surface to the lowest point of potential overflow.
2. Containment levees shall be observed for signs of seepage or surfacing water along the exterior of the levees.
3. After twelve months of monitoring, the monitoring and reporting frequency may be evaluated for possible reduction.
4. General Minerals shall include arsenic, calcium, chloride, iron, magnesium, manganese, potassium, sodium, sulfate, total alkalinity, bicarbonate, carbonate, and hardness.

## GROUNDWATER MONITORING

This monitoring program applies to the four wells shown on Attachment B of the Waste Discharge Requirements (WDRs) and any other wells installed to monitor the discharge areas subsequent to this MRP. Prior to sampling and purging, depth to groundwater shall be measured and then the wells shall be purged of at least three well volumes until temperature, electrical conductivity, and pH of extracted well water have stabilized. Samples shall be collected and analyzed using standard USEPA methods. Groundwater monitoring for each well shall include, at a minimum, the following:

<u>Parameter/Constituent</u>	<u>Units</u>	<u>Sampling Frequency</u>	<u>Reporting Frequency</u>
Depth to groundwater <sup>1</sup>	0.01 feet	Quarterly	Quarterly
Groundwater elevation <sup>1</sup>	0.01 feet, MSL	Quarterly	Quarterly
Groundwater gradient	feet/feet	Quarterly	Quarterly
Groundwater direction	bearing, degrees	Quarterly	Quarterly
pH	pH units	Quarterly	Quarterly
Electrical Conductivity	µmhos/cm	Quarterly	Quarterly
20°C BOD <sub>5</sub>	mg/L	Quarterly	Quarterly
Ammonia (as NH <sub>3</sub> )	mg/L	Quarterly	Quarterly
Kjeldahl Nitrogen	mg/L	Quarterly	Quarterly
Nitrate (as N)	mg/L	Quarterly	Quarterly
Total Dissolved Solids	mg/L	Quarterly	Quarterly
Fixed Dissolved Solids	mg/L	Quarterly	Quarterly
General Minerals <sup>2</sup>	mg/L	Quarterly <sup>3</sup>	Quarterly <sup>3</sup>

1. The positions and reference elevations of each groundwater monitoring well shall be surveyed by a California registered Civil Engineer or Land Surveyor. Groundwater elevations shall be determined based on depth-to-water measurements using surveyed reference points.
2. General Minerals shall include arsenic, calcium, chloride, iron, magnesium, manganese, potassium, sodium, sulfate, total alkalinity, bicarbonate, carbonate, and hardness.
3. After eight consecutive quarters of monitoring, the monitoring and reporting frequency may be evaluated for possible reduction.

An annual groundwater monitoring report shall include the following:

1. Contour maps showing the gradient and direction of groundwater flow in the vicinity of the wastewater ponds, using groundwater surface elevations from the Facility's monitoring wells.
2. Graphs of the laboratory analytical data for groundwater samples within the previous five calendar years. Each graph shall include the concentration of one or more waste constituents specified over time for a given monitoring well, at a scale appropriate to show trends or variations in water quality.

### SOLIDS MONITORING

The Discharger shall record and report **quarterly** the quantity, disposal location, and method of disposal of any solids disposed of, if applicable. If solid waste is shipped offsite, then a description of the quantity of each type of waste shipped offsite and the location of the disposal area(s) shall be included with the report.

## LEACHFIELD MONITORING

The Discharger shall inspect leachfield areas and submit results in the quarterly monitoring report. Monitoring shall include any observations of seeps, erosion, field saturation, ponding liquid, the presence of nuisance and other field conditions.

## REPORTING

In reporting monitoring data, the Discharger shall arrange the data in tabular form so that the date, sample type (e.g., flow, pond, groundwater, solids, etc.), sample location, and reported analytical result for each sample are readily discernible. The data shall be summarized in such a manner to clearly illustrate whether discharge is occurring in compliance with waste discharge requirements and whether there are any 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 Regional Board.

Reports shall be submitted as follows:

**Monthly** reports shall be submitted to the Central Valley Water Board by the **first day of the second month after the month of sampling** (i.e., the March report is due by 1 May).

**Quarterly** reports shall be submitted to the Central Valley Water Board by the **first day of the second month following the end of the calendar quarter** (i.e., the January-March quarterly report is due by 1 May) and may be combined with the monthly report due at the same time.

An **annual** report shall be submitted to the Central Valley Water Board by **1 February** each year and may be combined with other reports.

At a minimum the reports shall include:

1. 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.
2. If requested by staff, copies of laboratory analytical report(s).
3. 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, as described in the Standard Provisions General Reporting Requirements, Section B.3.

MONITORING AND REPORTING PROGRAM NO. R5-2006-  
SIERRA NEVADA CHEESE COMPANY, INC. AND  
GREGERSEN PROPERTIES LLC  
CHEESE PROCESSING FACILITY  
GLENN COUNTY

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The Discharger shall implement the above monitoring program as of the date of this Order.

Ordered by: \_\_\_\_\_  
PAMELA C. CREEDON, Executive officer

\_\_\_\_\_  
(Date)

CNC: sae  
03/12/07