

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
CENTRAL VALLEY REGION

REVISED MONITORING AND REPORTING PROGRAM NO. 96-016

FOR  
CISCO GROVE CAMPGROUND AND RV PARK, INC.  
CISCO GROVE CAMPGROUND AND RV PARK  
PLACER AND NEVADA COUNTIES

This monitoring and reporting program (MRP) incorporates requirements for the monitoring of the wastewater treatment plant and the leachfield 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 should 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. Process 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 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**

Samples of influent wastewater shall be collected at approximately the same time as effluent samples and should be representative of the influent flow to the treatment plant. At a minimum, influent monitoring shall consist of the following:

<u>Constituent</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>	<u>Reporting Frequency</u>
Flow	gpd	Continuous	Daily	Monthly
BOD <sub>5</sub> <sup>1</sup>	mg/L	Grab	Monthly	Monthly

<sup>1</sup> 5-day, 20°C Biochemical Oxygen Demand.

**EFFLUENT MONITORING**

The wastewater treatment system is to be inspected on a daily basis. Samples of effluent shall be taken at the point of discharge from the extended aeration activated sludge package treatment plant to the leachfield. At a minimum, effluent monitoring shall consist of the following:

<u>Constituent</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>	<u>Reporting Frequency</u>
pH <sup>1</sup>	pH Units	Grab	Monthly	Monthly
Total Coliform Organisms	MPN/100 ml	Grab	Monthly	Monthly
Total Suspended Solids	mg/L	Grab	Monthly	Monthly
Nitrate as Nitrogen	mg/L	Grab	Monthly	Monthly
Total Kjeldahl Nitrogen	mg/L	Grab	Monthly	Monthly
Total Dissolved Solids	mg/L	Grab	Monthly	Monthly
BOD <sub>5</sub> <sup>2</sup>	mg/L	Grab	Monthly	Monthly

<sup>1</sup> A hand held field unit may be used to measure pH, and electrical conductivity.

<sup>2</sup> 5-day, 20°C Biochemical Oxygen Demand.

### LEACHFIELD AREA MONITORING

The Discharger shall conduct a visual inspection of the leachfield on a **weekly basis**. Results shall be recorded and submitted with the monthly monitoring report. Photocopies of entries into an operator's log are acceptable. Evidence of surfacing wastewater, erosion, field saturation, runoff, or the presence of nuisance conditions shall be noted in the report. If surfacing water is found, then a sample shall be collected and tested for total coliform organisms and total dissolved solids. In addition to the visual inspections, monitoring of the leachfields shall include the following:

<u>Constituent</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>	<u>Reporting Frequency</u>
Application Rate <sup>1</sup>	gal/acre•day	Calculated	Monthly	Monthly
Leachline Riser Inspection <sup>2</sup>	Inches	Measurement	Monthly	Monthly
Depth to Groundwater <sup>3</sup>	0.01 Feet	Measurement	Three Times/Year <sup>4</sup>	Three Times/Year <sup>4</sup>

<sup>1</sup> The application rate for the leachfield

<sup>2</sup> The Discharger shall measure and record the distance from the surface of the liquid in the observation port to the surface of the ground in the active lateral(s).

<sup>3</sup> Leachfield observation wells located in the three mounds.

<sup>4</sup> During the second, third, and fourth quarters each year.

### GROUNDWATER MONITORING

Groundwater samples shall be collected from the four existing groundwater monitoring wells installed around the leachfield. Prior to construction and/or sampling of any additional groundwater monitoring wells, the Discharger shall submit plans and specifications to the 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 an approved Sampling and Analysis Plan. Groundwater monitoring shall include, at a minimum, the following:

<u>Constituent</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Sampling Frequency<sup>4</sup></u>	<u>Reporting Frequency<sup>4</sup></u>
Groundwater Elevation <sup>1</sup>	0.01 Feet	Measurement	Three Times/Year	Three Times/Year
Depth to Groundwater	0.01 Feet	Calculated	Three Times/Year	Three Times/Year
Gradient	Feet/Feet	Calculated	Three Times/Year	Three Times/Year
Gradient Direction	Degrees	Calculated	Three Times/Year	Three Times/Year
Total Coliform Organisms	MPN/100ml	Grab	Three Times/Year	Three Times/Year
pH	pH Units	Grab	Three Times/Year	Three Times/Year
Total Dissolved Solids	mg/L	Grab	Three Times/Year	Three Times/Year
Nitrates as Nitrogen	mg/L	Grab	Three Times/Year	Three Times/Year
Total Kjeldahl Nitrogen	mg/L	Grab	Three Times/Year	Three Times/Year
Standard Minerals <sup>3</sup>	mg/L	Grab	Three Times/Year	Three Times/Year

<sup>1</sup> Groundwater elevation shall be based on depth-to-water using a surveyed measuring point elevation on the well and a surveyed reference elevation.

<sup>2</sup> Using a minimum of 15 tubes or three dilutions

<sup>3</sup> Standard Minerals shall include, at a minimum, the following elements and compounds: Boron, Calcium, Iron, Magnesium, Manganese, Sodium, Potassium, Sulfate, Total Alkalinity (including alkalinity series), and Hardness.

<sup>4</sup> During the second, third, and fourth quarters each year.

## REPORTING

In reporting monitoring data, the Discharger shall arrange the data in tabular form so that the date, sample type (e.g., process wastewater effluent, groundwater well, 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 Monitoring and Reporting Program shall be reported in the next scheduled monitoring report.

As required by the California Business and Professions Code Sections 6735, 7835, and 7835.1, all Groundwater Monitoring Reports shall be prepared under the direct supervision of a Registered Engineer or Geologist and signed by the registered professional.

### 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 August monthly report is due by 1 October). Monthly reports for the months of March, June, September, and December may be submitted as part of the Quarterly Monitoring Report, if desired. The monthly reports shall include the following:

1. Results of influent, effluent, and leachfield area monitoring;
2. 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;
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;

## **B. Quarterly Monitoring Reports**

Quarterly Monitoring Reports shall be submitted to the Regional Board by the **1<sup>st</sup> day of the second month** following the end of the quarter for the second, third, and fourth quarter (i.e. the January-March quarterly report is due by May 1<sup>st</sup>) each year. The Quarterly Reports shall include the results of all regular monthly monitoring data generated and the results of groundwater monitoring performed. At a minimum, the report shall contain:

1. A narrative description of all preparatory, monitoring, sampling, and analytical testing activities. The narrative shall be sufficiently detailed to verify compliance with the WDRs, 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 the casing volume; and total volume of water purged.
2. Calculation of groundwater elevations, an assessment of the groundwater flow direction and gradient on the date of measurement, comparison to previous flow direction and gradient data, and discussion of seasonal trends, if any.
3. A narrative discussion of the analytical results for all media and locations monitored, including spatial and temporal trends, with reference to summary data tables, graphs, and appended analytical reports (as applicable).
4. A comparison of monitoring data to the discharge specifications, groundwater limitations, and surface water limitations, and explanation of any violation of those requirements.
5. Summary data tables of historical and current water table elevations and analytical results.
6. A scaled map showing relevant structures and features of the facility, the locations of monitoring wells and other sampling stations, and groundwater elevation contours referenced to mean sea level datum.
7. Copies of laboratory analytical report(s).

## **C. Annual Monitoring Reports**

An Annual Report shall be prepared as the fourth quarter monitoring report and shall include all monitoring data required in the monthly/quarterly 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. Data for the groundwater monitoring performed on an annual basis.
3. An evaluation of the performance of the wastewater treatment system, as well as a forecast of the flows anticipated in the next year.
4. 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.
5. 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: \_\_\_\_\_  
THOMAS R. PINKOS, Executive Officer

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(Date)