CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

MONITORING AND REPORTING PROGRAM NO. R5-2007-XXXX
FOR
BIG VALLEY POWER, LLC, AND NORRIS AND DOROTHY GERIG

BIG VALLEY POWER SAWMILL AND COGENERATION FACILITY
LASSEN COUNTY

PROCESS WATER MONITORING

The following waters shall be sampled:

- plant process water samples from the last connection before process water is discharged to either of the following: ditch leading to the evaporation/percolation pond or the log deck pond (if process water is being discharged to the log deck pond)

- contents of the evaporation/percolation pond.

The date and time of collection shall be recorded. Monitoring of at least the following parameters shall be conducted:

Constituent	**Unit**	**Type of Sample**	**Process Water Sampling Frequency[1]**	**Evaporation Pond Sampling Frequency**
Discharge Volume	gallons	Meter	Monthly	--
Freeboard[2]	feet, inches	Staff Gage	Monthly	Monthly
Depth[2]	feet, inches	Staff Gage	Monthly	Monthly
pH	units	Grab or Meter	Monthly	Monthly
Temperature	ºC	Thermometer	Monthly	Monthly
Electrical Conductivity	umhos/cm	Grab or Meter	Monthly	Monthly
Chloride	mg/L	Grab	Quarterly	Quarterly
Fluoride	mg/L	Grab	Quarterly	Quarterly
Sulfate	mg/L	Grab	Quarterly	Quarterly
Aluminum	ug/L	Grab	Quarterly	Quarterly
Arsenic	ug/L	Grab	Quarterly	Quarterly
Iron	ug/L	Grab	Quarterly	Quarterly
Manganese	ug/L	Grab	Quarterly	Quarterly
Mercury	ug/L	Grab	Quarterly	Quarterly

[1] Process water sampling required only during months that discharge is occurring.
[2] Percolation and evaporation ponds only.

ASH MONITORING

The Discharger shall report the following information **monthly:**

- Volume of fly ash, and bottom ash generated (recorded individually)
- Volume of material stored at facility
- Volume of material removed from facility
- Disposal location or soil amendment application area

Should ash be used as a soil amendment, the following shall be described **monthly** for each application area:

- Area of land where ash is applied (acres)
- Volume of ash applied (cubic yards)

Each calendar year that ash is used as a soil amendment, stockpiled wood ash shall be sampled annually and analyzed for the constituents listed below. **By 1 February** of each year, these analytical results and the above information shall be summarized and submitted in a report.

Constituent	Units	Sampling Type	Sampling Frequency
pH	Standard Units	Grab	Annually
Moisture Content	% Solids	Grab	Annually
Total Organic Carbon	mg/kg	Grab	Annually
Sodium	mg/kg	Grab	Annually
Chloride	mg/kg	Grab	Annually
Antimony[1]	ug/L and mg/kg	Grab	Annually
Arsenic[1]	ug/L and mg/kg	Grab	Annually
Beryllium[1]	ug/L and mg/kg	Grab	Annually
Cadmium[1]	ug/L and mg/kg	Grab	Annually
Chromium (III) [1]	ug/L and mg/kg	Grab	Annually
Chromium (VI) [1]	ug/L and mg/kg	Grab	Annually
Copper[1]	ug/L and mg/kg	Grab	Annually
Lead[1]	ug/L and mg/kg	Grab	Annually
Mercury[1]	ug/L and mg/kg	Grab	Annually
Nickel[1]	ug/L and mg/kg	Grab	Annually
Selenium[1]	ug/L and mg/kg	Grab	Annually
Silver[1]	ug/L and mg/kg	Grab	Annually
Thallium[1]	ug/L and mg/kg	Grab	Annually
Zinc[1]	ug/L and mg/kg	Grab	Annually
Cyanide[1]	ug/L and mg/kg	Grab	Annually

[1]Priority pollutant inorganics shall be analyzed using two methods: Total Metals Analysis (mg/kg) and

Waste Extraction Test for soluble extract (ug/L) using deionized water as the extractant.

GROUNDWATER MONITORING

A groundwater monitoring program to assess upgradient conditions and impacts to groundwater quality shall be implemented. The monitoring network shall consist of a minimum of three monitoring wells. The date and time of collection shall be recorded. The following parameters shall be measured when sampling groundwater:

Constituent	Unit	Sample	Frequency
Depth to Water Table	ft below TOC[1]	Measurement	Monthly[2]
Water Table Elevation	ft above msl	Calculated	Monthly[2]
pH	Units	Measurement	Monthly[2]
Temperature	ºC	Grab or Meter	Monthly[2]
Electrical Conductivity	µmhos/cm	Grab or Meter	Monthly[2]
Chloride	mg/L	Grab	Quarterly
Fluoride	mg/L	Grab	Quarterly
Sulfate	mg/L	Grab	Quarterly
Aluminum	ug/L	Grab	Quarterly
Arsenic	ug/L	Grab	Quarterly
Iron	ug/L	Grab	Quarterly
Manganese	ug/L	Grab	Quarterly
Mercury	ug/L	Grab	Quarterly

[1] Top of Casing.
[2] After one full year of monitoring the Discharger may request that the sampling frequency be reduced to quarterly.

REPORTING

Monitoring results shall be submitted to the Regional Board quarterly. Reports shall be submitted by the **1st day of the second month** after the sampling quarter, as follows:

- First Quarter Report (January to March) is due by 1 May
- Second Quarter Report (April to June) is due by 1 August
- Third Quarter Report (July to September) is due by 1 November
- Fourth Quarter Report (October to December) is due by 1 February.

In reporting the monitoring data, the Discharger shall arrange the data in tabular form so that the date, the constituents, and the concentrations are readily discernible. The data shall be summarized in such a manner to illustrate clearly temporal changes as well as whether the discharge complies with waste discharge requirements.

Additionally, the Fourth Quarter Report shall summarize all data collected during the

previous calendar year. Tabular and graphical summaries of the monitoring data obtained during the previous year shall be included. The Report shall discuss the compliance record. If violations have occurred, the Report shall also discuss the corrective actions taken and plans to bring the discharge into full compliance with the waste discharge requirements.

To be included in the Fourth Quarter Report, the Discharger shall submit a statement listing the analytical procedures performed on-site. The statement shall certify that these procedures are being performed in accordance with an approved quality assurance/quality control program. The last date when the QA/QC program was revised and reviewed must be included (Standard Provision C.2).

If the Discharger monitors any pollutant at the locations designated herein more frequently than is required by this Order, the results of such monitoring shall be included in the calculation and reporting of the values required in the discharge monitoring report form. Such increased frequency shall be indicated on the discharge monitoring report form.

All reports submitted in response to this Order shall comply with the signatory requirements of Standard Provisions D.6.

Ordered by:

PAMELA C. CREEDON, Executive Officer

XX June 2007
(Date)

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