

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

NPDES NO. CA0081876

MONITORING AND REPORTING PROGRAM ORDER NO. R5-2002-0153
FOR
MINING REMEDIAL RECOVERY COMPANY, INC.
MAMMOTH, SUTRO, KEYSTONE, STOWELL, BALAKLALA,
SHASTA KING, AND EARLY BIRD MINES
SHASTA COUNTY

MINE DRAINAGE MONITORING

Samples of mine drainage shall be obtained from the Discharge points 001 through 014, and from the effluent of any passive treatment system. Flow measuring devices shall be installed at each monitoring point, as practical, to allow for accurate flow measurements of mine drainage. Time and date of each sample shall be recorded and reported. Discharge points are shown on Attachments A and B. The samples shall be obtained at the frequencies and analyzed for the parameters listed below:

Parameter	Unit	Type of Sample	Sampling Frequency
Copper	mg/l	Grab	Semi-annual ¹
Zinc	mg/l	Grab	Semi-annual ¹
Cadmium	mg/l	Grab	Semi-annual ¹
pH	pH Units	Grab	Semi-annual ¹
Flow	gpm	--	Semi-annual ¹

¹Semi-annual samples shall be obtained in August and February of each year

The bulkhead seals shall be inspected at least semi-annually to detect leakage, signs of possible failure, and to record hydrostatic pressure behind the seal.

RECEIVING WATER MONITORING

The Discharger shall establish receiving water monitoring stations at the locations described below.

<u>Station</u>	<u>Description</u>
R-1	Little Backbone Creek upstream of drainage from Mammoth Mine
R-2	Little Backbone Creek at confluence with Shasta Lake
R-3	Spring Creek above drainage from Stowell Mine
R-4	Spring Creek downstream of drainage from Stowell Mine

- R-5 West Squaw Creek above drainage from Early Bird Mine
- R-6 West Squaw Creek at confluence with Shasta Lake
- R-7 Shoemaker Gulch upstream of the Friday-Louden Portal
- R-8 Shoemaker Gulch at confluence with Shasta Lake

Samples at all stations shall be analyzed for the constituents and at the frequency given below:

<u>Constituent</u>	<u>Unit</u>	<u>Sampling Frequency</u>
Dissolved Copper	mg/l	Quarterly
Dissolved Zinc	mg/l	Quarterly
Dissolved Cadmium	mg/l	Quarterly
Cyanide	mg/l	Quarterly ¹
pH	pH Units	Quarterly
Priority Pollutant Metals	mg/l	Annually ²
Flow	gpm	Quarterly

¹Monitoring may be discontinued after three tests with results below the limit of detection.

²Samples shall be obtained in the second quarter.

The Discharger shall install and maintain continuous monitoring devices in identified tributaries in each watershed as described in the report titled *MRRC, Shasta Area Mines, Site-wide Water Monitoring Network Work Plan, Shasta County, California*, dated June 2002. Each monitoring device shall measure stream flow, conductivity, and pH. The Discharger shall submit both paper and electronic copies of the data to the Regional Board on a quarterly basis.

REPORTING

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

Quarterly and semi-annual monitoring results shall be submitted to the Regional Board by the 1st day of the second month following the calendar quarter (e.g., the report for the 1st calendar quarter is due 1 May).

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.

Upon written request of the Regional Board, the Discharger shall submit a report to the Regional Board by 30 January of each year. The report shall contain both tabular and graphical summaries of the monitoring data obtained during the previous year. In addition, the Discharger shall discuss the compliance record and the corrective actions taken or planned, which may be needed to bring the discharge into full compliance with the waste discharge requirements.

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

Ordered by: _____
Thomas Pinkos, Acting Executive Officer

6 September 2002
(Date)

PVW:pvw