

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
COLORADO RIVER BASIN REGION**

MONITORING AND REPORTING PROGRAM NO. 01-088  
AND  
BASIN WATER TECHNOLOGY GROUP, OWNER  
HI-DESERT WATER DISTRICT, OPERATOR  
FOR  
DISCHARGE OF WASTEWATER TO FROM BASINS/PONDS  
Yucca Valley - San Bernardino County

Location of Discharge: Section 35, T1N, R5E, SBB&M

MONITORING

The collection, preservation and holding times of all samples shall be in accordance with United States Environmental Protection Agency (USEPA) approved procedures. Unless otherwise approved by the Regional Board's Executive Officer, all analyses shall be conducted by a laboratory certified by the State Department of Health Services. All analyses shall be conducted in accordance with the latest edition of "Guidelines Establishing Test Procedures for Analysis of Pollutants" (40 CFR 136), promulgated by the USEPA.

EVAPORATION BASIN MONITORING

The discharger shall monitor the evaporation basins, groundwater, leachate recovery system and vadose zone in accordance with the following:

1. Grab wastewater samples shall be taken from each basin near the point of discharge to analyze or the following constituents:

<u>Constituent</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Reporting Frequency</u>
pH	----	Grab	Semi-annually
Total Dissolved Solids (TDS)	mg/L	Grab	Semi-annually
Specific Conductance	mg/L	Grab	Semi-annually
Fluoride	mg/L	Grab	Semi-annually
Arsenic	mg/L	Grab	Semi-annually
Total Chromium	mg/L	Grab	Semi-annually
Hexavalent Chromium	mg/L	Grab	Semi-annually

2. Grab brine samples shall be taken from each basin that has sludge present, on an annual basis and tested for the following constituents:

<u>Constituent</u>	<u>Unit</u>	<u>Reporting Frequency</u>
Antimony	mg/kg	Annually
Arsenic	mg/kg	Annually
Barium	mg/kg	Annually
Beryllium	mg/kg	Annually
Cadmium	mg/kg	Annually
Chromium	mg/kg	Annually
Cobalt	mg/kg	Annually
Copper	mg/kg	Annually
Fluoride	mg/kg	Annually
Hexavalent Chromium	mg/kg	Annually
Lead	mg/kg	Annually
Mercury	mg/kg	Annually
Molybdenum	mg/kg	Annually
Nickel	mg/kg	Annually
Selenium	mg/kg	Annually
Silver	mg/kg	Annually
Thallium	mg/kg	Annually
Vanadium	mg/kg	Annually
Zinc	mg/kg	Annually
Bioassay	mg/kg	Annually

### GROUNDWATER MONITORING

Groundwater samples shall be taken from each groundwater monitoring well and analyzed for the following constituents:

<u>Constituent</u>	<u>Unit</u>	<u>Reporting Frequency</u>
Total Dissolved Solids	mg/L	Quarterly
Specific Conductance	mg/L	Quarterly
pH	mg/L	Quarterly
Fluoride	mg/L	Quarterly
Nitrate	mg/L	Quarterly
Arsenic	mg/L	Quarterly

#### 1. Leachate Collection and Recovery System (LCRS)

Leachate collection sumps for the evaporation basins shall be monitored weekly. If any liquid is found in the sump, the amount shall be recorded. The top liner shall not exceed a permeability of  $1 \times 10^{-11}$  cm/sec. If no leak occurs, or if the permeability in the top liner does not exceed  $1 \times 10^{-11}$  cm/sec, this should be noted in the quarterly monitoring report. If the permeability of the top liner should exceed  $1 \times 10^{-11}$  cm/sec, the discharger shall report the leak immediately to the Regional Board.

### VADOSE ZONE MONITORING

The Vadose Zone Detection system for the basins shall be monitored monthly for the detection of liquid in the unsaturated zone. A log dating the inspection and person inspecting the Vadose Zone Detection System shall be maintained. In the event that liquid is detected, the liquid should be tested for the following constituents and reported to the Regional Board immediately:

<u>Constituent</u>	<u>Unit</u>	<u>Reporting Frequency</u>
Total Dissolved Solids	mg/L	Quarterly
Specific Conductance	mg/L	Quarterly
pH	mg/L	Quarterly
Fluoride	mg/L	Quarterly
Nitrate Arsenic	mg/L	Quarterly

## REPORTING

1. The discharger shall arrange the data in tabular form so that the specified information is readily discernible. The data shall be summarized in such a manner as to clearly illustrate whether the facility is operating in compliance with waste discharge requirements.
2. Records of monitoring information shall include:
  - a. The date, exact place, and time of sampling or measurement(s);
  - b. The individual(s) who performed the sampling or measurement(s);
  - c. The date(s) analyses were performed;
  - d. The individual(s) who performed the analyses;
  - e. The analytical techniques or methods used; and
  - f. The results of such analyses.
3. Each report shall contain the following statement:

"I declare under the penalty of law that I have personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment for knowing violations".
4. A duly authorized representative of the discharger may sign the documents if:
  - a. The authorization is made in writing by the person described above;
  - b. The authorization specified an individual or person having responsibility for the overall operation of the regulated disposal system; and
  - c. The written authorization is submitted to the Regional Board's Executive Officer.
5. Report immediately any failure in the containment structures and drainage and control systems to the Regional Board's Executive Officer by telephone and with follow-up letter.
6. Monitoring reports shall be certified under penalty of perjury to be true and correct, and shall contain the required information at the frequency designated in this monitoring report.
7. Daily, semi-weekly and monthly monitoring reports shall be submitted to the Regional Board by the 15<sup>th</sup> day of the following month. Quarterly monitoring reports shall be submitted to the Regional Board by January 15, April 15, July 15, and October 15, of each year. Annual monitoring reports shall be submitted to the Regional Board by January 15 of each year.
8. Five-year monitoring reports shall be submitted to the Regional Board by February 15 of the 6<sup>th</sup> year.

9. Submit monitoring reports to:

California Regional Water Quality Control Board  
Colorado River Basin Region  
73-720 Fred Waring Drive, Suite 100  
Palm Desert, CA 92260

Ordered by: \_\_\_\_\_  
Executive Officer

\_\_\_\_\_  
Date

