

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
CENTRAL VALLEY REGION

MONITORING AND REPORTING PROGRAM NO. R5-2002-0220, REVISION NO. 1

FOR  
TEICHERT AGGREGATES  
TRACY ROCK PLANT  
SAN JOAQUIN COUNTY

This Monitoring and Reporting Program (MRP) describes requirements for monitoring industrial wastewater. This MRP is issued 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 samples shall 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 measure 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 calibrated prior to each monitoring event;
3. The 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 the MRP.

### OPERATIONAL STATUS

The Discharger shall maintain records in order to answer the following:

1. Has mining activity occurred during the month? Yes or No
2. Was aggregate wash water generated or discharged during the month? Yes or No

### POND MONITORING

Each storm water and process water pond shall be inspected weekly and monitored as follows:

<u>Parameter</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>	<u>Reporting Frequency</u>
<u>Freeboard</u>	0.1 Feet	Measurement	Weekly <sup>1</sup>	Monthly

<sup>1</sup> May be sampled monthly if no discharge to pond occurred during the previous or current calendar month.

## EFFLUENT MONITORING

Wastewater effluent samples shall be collected at the inlet to the first settling pond. Grab samples are considered adequately composited to represent the effluent. Monitoring for individual parameters is required based on the site activities. If no discharge has occurred during the current calendar month no sampling is required. Sample locations shall be established as necessary to determine effluent quality at all potential source areas. At a minimum, the Discharger shall monitor the effluent wastewater as follows:

<u>Constituent/Parameter</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>	<u>Reporting Frequency</u>
Flow	gpd	Meter Observation	Daily	Monthly
PH	Std.	Grab	Monthly	Monthly
Total Dissolved Solids <sup>1</sup>	mg/l	Grab	Monthly	Monthly
Total Petroleum Hydrocarbons <sup>2,3</sup>	mg/l	Grab	Monthly	Monthly
Hexavalent Chromium <sup>1</sup>	mg/l	Grab	Quarterly	Quarterly
Total Mercury <sup>1</sup>	mg/l	Grab	Quarterly	Quarterly
Standard Minerals <sup>1,4</sup>	mg/l	Grab	Quarterly	Quarterly

<sup>1</sup> Monitoring only required when a concrete plant is in operation.

<sup>2</sup> Monitoring only required when an asphalt plant in operation.

<sup>3</sup> TPH shall be performed by EPA Method 8015-m for diesel range hydrocarbons.

<sup>4</sup> Standard Minerals shall include, at a minimum, the following: Barium, Calcium, Magnesium, Sodium, Potassium, Nitrate, Sulfate, Total Alkalinity (including alkalinity series), and Hardness.

## REPORTING

In reporting monitoring data, the Discharger shall arrange the data in tabular form so that the date, sample type (e.g., effluent, pond, 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.

### A. Monthly Monitoring Reports

Monthly reports shall be submitted to the Regional Board on the **1<sup>st</sup> day of the second month following sampling** (i.e. the January Report is due by 1 March). At a minimum, the reports shall include:

1. Results of operational status, pond and effluent 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 discussion of all sludge removed from the process water ponds, septage or other solid waste disposal.
5. A calibration log verifying calibration of all monitoring instruments and devices used to comply with the prescribed monitoring program.

## **B. Annual Monitoring Reports**

An Annual Report shall be prepared as the December monthly monitoring report. The Annual Report shall include all monitoring data required in the monthly schedule. The Annual Report shall be submitted to the Regional Board by **1 February** each year. In addition to the data normally presented, the Annual Report shall include the following:

1. If requested by staff, tabular and graphical summaries of all data collected during the year;
2. An evaluation of the performance of the wastewater treatment system, as well as a forecast of the flows anticipated in the next year;
3. A discussion of compliance and the corrective actions taken, as well as any planned or proposed actions needed to bring the discharge into full compliance with the waste discharge requirements;
4. A discussion of any data gaps and potential deficiencies/redundancies in the monitoring system or reporting program;
5. A Water Balance and Capacity Calculation Report that demonstrates adequate storage and disposal capacity to ensure full compliance with the WDRs. The water balance shall evaluate the settling pond area's ability to provide sufficient capacity on a monthly basis, and shall consider evaporation, direct precipitation, storm water runoff contribution, percolation, and estimated rate of sedimentation. Rainfall amounts shall be based on the total annual precipitation based on a return period of 100 years, distributed monthly in accordance with historical rainfall patterns. Note that the established maximum daily percolation rate cannot exceed ten percent of the minimum saturated hydraulic conductivity and the evaporation rate cannot exceed 80 percent of the established pan evaporation rate for the area. For the purpose of this analysis, "full compliance" means maintaining two feet of freeboard in all ponds.

A transmittal letter shall accompany each self-monitoring report. The letter shall discuss any violations during the reporting period and all actions taken or planned for correcting 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.

Original signed by

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PAMELA C. CREEDON, Executive Officer

23 March 2012

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(Date)