

STATE OF CALIFORNIA  
 CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
 CENTRAL COAST REGION  
 81 Higuera Street, Suite 200  
 San Luis Obispo, CA 93401-5427

MONITORING AND REPORTING PROGRAM NO. 00-026  
 NPDES PERMIT NO. CA0048739  
 Waste Discharger Identification No. 3 442004002

For  
 RMC PACIFIC MATERIALS INC.  
 OLYMPIA SAND PLANT  
 Santa Cruz County

**EFFLUENT MONITORING<sup>1</sup>**

An effluent sampling station shall be established at Discharge Point P1 as shown on Attachment "B" of this Order, described as follows:

<u>Sampling Station</u>	<u>Description</u>
P1	Combined effluent from Stock Pile settling pond and spring flow prior to mixing with outflow of No Name Pond.
P2	Zayante Creek

Representative samples shall be collected whenever the facility discharges during both wet and dry seasons. Representative samples shall be collected at the sampling station P1 and analyzed according to the schedule in Table A, below:

**Table A**

Parameter or Constituent	Units	Sample Type	Minimum Analysis Frequency (when discharging) <sup>1</sup>
Flow	Gallons/day	Calculated	Estimated Monthly
Settleable Solids	milliliters/liter (ml/l)	Grab	Every eight days
Total Suspended Solids	milligrams/liter (mg/l)	Grab	Every eight days
Turbidity	NTU	Grab	Every eight days
pH	pH Units	Grab	Every eight days
Temperature	° Fahrenheit	Grab	Every eight days
Total Dissolved Solids	mg/l	Grab	Monthly
Chloride	mg/l	Grab	Monthly
Sulfate	mg/l	Grab	Monthly
Boron	mg/l	Grab	Monthly
Sodium	mg/l	Grab	Monthly
Oil and Grease	mg/l	Grab	Monthly
Whole Effluent Toxicity	Pass or Fail (Acute) and TU <sub>c</sub> (Chronic)	<del>Grab</del> Composite	Annually

<sup>1</sup> If no discharge occurs during a calendar year, one sample shall be collected from Stock Pile Settling pond and analyzed for parameters as described in Table A.

Parameter or Constituent	Units	Sample Type	Minimum Analysis Frequency (when discharging) <sup>1</sup>
Hardness, as CaCO <sub>3</sub>	mg/l	Grab	2000/2004
Aluminum	mg/l	Grab	2000/2004
Arsenic	mg/l	Grab	2000/2004
Barium	mg/l	Grab	2000/2004
Cadmium	mg/l	Grab	2000/2004
Chromium (total)	mg/l	Grab	2000/2004
Copper	mg/l	Grab	2000/2004
Lead	mg/l	Grab	2000/2004
Mercury	mg/l	Grab	2000/2004
Nickel	mg/l	Grab	2000/2004
Selenium	mg/l	Grab	2000/2004
Silver	mg/l	Grab	2000/2004
Zinc	mg/l	Grab	2000/2004

1. Sample collection shall occur when there is flow at Discharge Point P1. Every eighth day and monthly samples shall be collected during the first day of discharge within the specified sampling period and at intervals stated in Table A. Annual samples and samples collected in years 2000 and 2004 shall be collected during the first day of discharge during the specified wet seasons (i.e., October-May).

#### RECEIVING WATER MONITORING

Receiving water sampling stations shall be established, as shown on Attachment "B", as follows:

<u>Station No.</u>	<u>Description</u>
Z1	In Zayante Creek, 100 feet upstream of Discharge Point P1. The sample collected should reflect water quality prior to the confluence of the Zayante Creek with Discharge Point P1.
Z2	In Zayante Creek, 100 feet downstream of Discharge Point P1. The sample collected at Z2 shall be capable of providing a representative sample that indicates the impact of the effluent on the receiving water.

On the day discharge occurs representative grab samples<sup>2</sup> of receiving water from stations Z1 and Z2 shall be collected and analyzed for any constituents exceeding effluent limitations, as well as the constituents in Table B, below:

Table B

Constituent	Units	Sample Type
Dissolved Oxygen	Mg/l	Grab
Temperature	° F	Grab
pH	PH units	Grab
Turbidity <sup>3</sup>	NTU	Grab
Color	Color units	Grab
Visual Observations <sup>4</sup>	--	--
Flow <sup>5</sup>	Cubic Feet per Second	Measured

2. Samples shall be collected on the first day of discharge and eight days later. Additional samples shall be collected within 10 days of any exceedances of effluent limitations determined through effluent sampling and analysis.

Temperature measurements at Z1 and Z2 shall be taken when collecting temperature measurements at Discharge Point P1.

3. Reported upstream sample value shall consist of a mean value of six samples, plus two standard deviations.
4. During all receiving water sampling events, an observation log shall be kept of receiving water conditions and submitted as part of the quarterly monitoring reports. Observations shall include, at a minimum:
  - a) Floating or suspended matter;
  - b) Discoloration;
  - c) Foaming;
  - d) Aquatic life;
  - e) Bottom deposits; and
  - f) Odors.
5. The Discharger shall record flow quantities in Zayante Creek during periods of discharge from Discharge Point P1. Flow data shall be obtained from the nearest gauging station (if available).

#### PRECIPITATION AND FLOW MONITORING

The Discharger shall monitor and record daily precipitation representative of conditions at the quarry.

#### WET WEATHER PREPAREDNESS

In accordance with provision F.4 of Order No. 00-026, the Discharger shall certify by September 15 of each year necessary measures have been installed and are in proper condition to comply with the terms of this Order for the impending rainy season. This certification shall be included annually in the November quarterly report.

#### REPORTING

Results of all monitoring activities shall be reported quarterly to the Board based on the following schedule:

Monitoring Period	Report Submittal Date
January 1 – March 31	May 1
April 1 – June 30	August 1
July 1 – September 30	November 1
October 1 – December 31	February 1

Quarterly monitoring reports shall include:

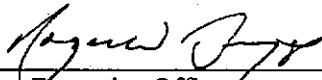
1. All data required by this monitoring program for the monitoring period, including appropriate calculations to verify compliance with effluent limitations.
2. A discussion of any non-compliance issues and corrective actions taken.
3. If no discharge occurs during the monitoring period, a statement to that effect may be sent in lieu of the report.

Pursuant to Standard Provision C.16, an annual report shall be submitted by February 1 of each year containing both tabular and graphical summaries of the monitoring data obtained during the previous year. This annual report can be combined with the October 1 – December 31 quarterly report.

### PROVISIONS

1. All monitoring activities shall be performed on the first day of discharge from Discharge Point P1 during the specified monitoring period.
2. All data shall be submitted to the Board in both hard copy and electronic format. The electronic data submission shall conform to criteria approved by the Central Coast Regional Water Quality Control Board Executive Officer.
3. All monitoring must be conducted according to test procedures approved under 40 Code of Federal Regulations Part 136, entitled, "Guidelines Establishing Test Procedures for Analysis of Pollutants." All sampling analyses shall be conducted at the lowest practical quantitation limits achievable under U.S. EPA specified methodology. In cases where effluent limits are set below the lowest achievable practical quantitation limits, constituents not detected at the practical quantitation limit will be considered in compliance with effluent limitations.
4. This Monitoring and Reporting Program may be revised at any time during the permit term, as necessary, under the authority of the Executive Officer. Monitoring requirements may be re-evaluated, as appropriate, upon collection and review of monitoring data.

Ordered By:

  
Executive Officer

Date:

5-31-00