

**STATE OF CALIFORNIA  
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
CENTRAL COAST REGION  
895 Aerovista Place, Suite 101  
San Luis Obispo, CA 93401-7906**

**MONITORING AND REPORTING PROGRAM NO. R3-2005-0038**  
Waste Discharger Identification No. 3442004003

for

**RMC PACIFIC MATERIALS, INC.  
DAVENPORT CEMENT PLANT  
SANTA CRUZ COUNTY**

**EFFLUENT MONITORING**

Effluent sampling stations shall be established at the following points:

- Station No. 001- At point of entry to the irrigation pond shown on Attachment B.
- Station No. 001a - At point of exit from irrigation pond.
- Station No. 001b - At drainage ditch along Highway 1 at point prior to entry into Discharge 001.
- Station No. 003 - At end of pipe emptying into the Pacific Ocean shown on Attachment B.

The Discharger shall collect representative effluent grab samples from the designated station and shall analyze the samples according to the following schedule:

Constituent	Units	Discharge No.	Minimum Analysis Frequency
Flow	gpd	001,003	Estimated
PH <sup>1</sup>	pH units	001,003	Daily
Electric Conductivity	µmhos/cm	001	Daily
Total suspended solids	mg/L	001, 001 b, 003	Monthly (1st week) <sup>2</sup>
Temperature <sup>3</sup>	°F	001,003	Monthly (1st week) <sup>2</sup>
Oil & Grease	mg/L	001,003	Quarterly
Settleable Solids	ML/L	001,003	Quarterly
Turbidity	NTU	001, 001a, 001b, 003	Quarterly
Acute Toxicity	TUa	001,003	Every 13 months
Chronic Toxicity	TUc	001,003	Every 13 months
Arsenic	µg/L	001,003	August 2008
Cadmium	µg/L	001,003	August 2008
Chromium (Hex)	µg/L	001,003	August 2008
Copper	µg/L	001,003	August 2008
Lead	µg/L	001,003	August 2008
Mercury	µg/L	001,003	August 2008
Nickel	µg/L	001,003	August 2008
Selenium	µg/L	001,003	August 2008
Silver	µg/L	001,003	August 2008
Zinc	µg/L	001,003	August 2008
Cyanide	µg/L	001,003	August 2008
Total Chlorine Residual	µg/L	001,003	August 2008
Ammonia (as N)	µg/L	001,003	August 2008
Phenolic Compounds (non-chlorinated)	µg/L	001,003	August 2008
Chlorinated Phenolics	µg/L	001,003	August 2008

Constituent	Units	Discharge No.	Minimum Analysis Frequency
Endosulfan	µg/L	001,003	August 2008
Endrin	µg/L	001,003	August 2008
HCH	µg/L	001,003	August 2008
Radioactivity		001,003	August 2008
Acrolein	µg/L	001,003	August 2008
Antimony	µg/L	001,003	August 2008
Bis (2-Chloroethoxy) Methane	µg/L	001,003	August 2008
Bis (2-chloroisopropyl) Ether	µg/L	001,003	August 2008
Chlorobenzene	µg/L	001,003	August 2008
Chromium (III)	µg/L	001,003	August 2008
Di-n-butyl Phthalate	µg/L	001,003	August 2008
Dichlorobenzene	µg/L	001,003	August 2008
1, 1 -dichloroethylene	µg/L	001,003	August 2008
Diethyl Phthalate	µg/L	001,003	August 2008
Dimethyl Phthalate	µg/L	001,003	August 2008
4,6-dinitro-2-methyl phenol	µg/L	001,003	August 2008
2,4-dinitro-2-methyl phenol	µg/L	001,003	August 2008
2,4-dinitrophenol	µg/L	001,003	August 2008
Ethylbenzene	µg/L	001,003	August 2008
Flouranthene	µg/L	001,003	August 2008
Hexachlorocyclo pentadiene	µg/L	001,003	August 2008
Isophorone	µg/L	001,003	August 2008
Nitrobenzene	µg/L	001,003	August 2008
Thallium	µg/L	001,003	August 2008
Toluene	µg/L	001,003	August 2008
1,1,2,2-tetrachloroethane	µg/L	001,003	August 2008
Tributyltin	µg/L	001,003	August 2008
1, 1, 1 -trichloroethane	µg/L	001,003	August 2008
1,1,2-trichloroethane	µg/L	001,003	August 2008
Aldrin	µg/L	001,003	August 2008
Benzene	µg/L	001,003	August 2008
Benzidine	µg/L	001,003	August 2008
Beryllium	µg/L	001,003	August 2008
Bis(2-chloroethyl) ether	µg/L	001,003	August 2008
Bis(2-ethylhexyl)phthalate	µg/L	001,003	August 2008
Carbon Tetrachloride	µg/L	001,003	August 2008
Chlordance	µg/L	001,003	August 2008
Chloroform	µg/L	001,003	August 2008
DDT	µg/L	001,003	August 2008
1,4-dichlorobenzene	µg/L	001,003	August 2008
3,3-dichlorobenzidine	µg/L	001,003	August 2008
1,2-dichloroethane	µg/L	001,003	August 2008
Dichloromethane	µg/L	001,003	August 2008
1,3-dichloropropene	µg/L	001,003	August 2008
Dieldrin	µg/L	001,003	August 2008
2,4-dinitrotoluene	µg/L	001,003	August 2008
1,2-diphenylhydrazine	µg/L	001,003	August 2008
Halomethanes	µg/L	001,003	August 2008

Constituent	Units	Discharge No.	Minimum Analysis Frequency
Heptachlor	µg/L	001,003	August 2008
Hexachlorobenzene	µg/L	001,003	August 2008
Hexachlorobutadiene	µg/L	001,003	August 2008
Hexachloroethane	µg/L	001,003	August 2008
N-nitrosodimethylamine	µg/L	001,003	August 2008
N-nitrosophenylamine	µg/L	001,003	August 2008
PAHs	µg/L	001,003	August 2008
PCBs	µg/L	001,003	August 2008
TCDD equivalents	µg/L	001,003	August 2008
Tetrachlorethylene	µg/L	001,003	August 2008
Toxaphene	µg/L	001,003	August 2008
Trichloroethylene	µg/L	001,003	August 2008
2,4,6-trichlorophenol	µg/L	001,003	August 2008
Vinyl Chloride	µg/L	001,003	August 2008

- <sup>1</sup> The Discharger shall record and report the daily reading of the CO<sub>2</sub> neutralization system's pH probe and the reading from a monthly grab sample. If there is a significant difference, the Discharger shall investigate and correct the source of the pH difference.
- <sup>2</sup> Monthly samples shall be collected during the first week of the month, on alternating weekdays.
- <sup>3</sup> If the temperature reading at Station 001 exceeds 74°F, the Discharger shall immediately monitor temperature at Station 001a and report the result.

### RECEIVING WATER MONITORING

At the time of effluent sampling of 001 and 003, a log should be kept of receiving water conditions. From an easily accessible point, the presence or absence of the following conditions should be noted in the log:

1. Floating Matter
2. Discoloration
3. Foaming
4. Turbidity

If any of these conditions are noted, the receiving waters shall be observed from a closer vantage point for the presence or absence of suspended matter or aquatic life. The Discharger shall summarize the receiving water conditions in each monitoring report.

### SITE OBSERVATIONS

The Discharger shall inspect the Plant at least monthly during the rainy season (October through May) and after all precipitation events that result in appreciable runoff. These inspections shall include observations of all drainage system features (including free board in all ponds), observations of all raw materials storage areas, and all erodible areas in the vicinity of the Plant. Areas of erosion and all other storm water pollutant sources shall be promptly repaired. Observations and necessary repairs shall be noted in a log book daily.

#### Rainfall Data

The Discharger shall record the following:

- a. total precipitation during the monitoring period,
- b. precipitation during the most intensive twenty-four hour interval of the monitoring period, and
- c. return frequency of the most intense storm (25 year, 100 year, and so on)

### REPORTING

1. All sampling results shall be presented in tabular format.

2. Graphical, statistical, trend and non-statistical data analysis of all sample results shall be performed at least annually, and as appropriate, to assess compliance with the WDRs Order No. R3-2005-0038.
3. A summary shall be included with each report detailing the monitoring activities and corrective actions for the reporting period. The summary shall also identify corrective and preventative measures implemented to comply with the terms of this Order. Any deviations from the provisions of the monitoring program shall be stated and explained within the summary.
4. The monitoring report shall include a transmittal letter signed by a principal executive officer at the level of vice president or higher. The letter shall contain a statement by the official, under penalty of perjury, that to the best of the signer's knowledge the reports are true, complete, and correct.
5. All monitoring reports shall include copies of the following:
  - a) Signed original laboratory analytical data sheets including all applicable quality assurance and quality control data;
  - b) Completed chain of custody forms; and
  - c) Signed and dated field observation logs collected during required inspections.

### REPORTING SCHEDULE

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 <sup>st</sup>
April 1 - June 30	August 1 <sup>st</sup>
July 1 - September 30	November 1 <sup>st</sup>
October 1 - December 31	February 1 <sup>st</sup>
August 2008	November 1, 2008

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.

### NOTIFICATION

1. The Discharger shall telephone or e-mail the Board within 48 hours of any non-compliance with Waste Discharge Requirements Order No. R3-2005-0038. Written notification of non-compliance shall be submitted within seven working days and include the following:
  - a. the cause of the non-compliance,
  - b. steps taken to correct the problem,
  - c. steps taken to prevent future problems, and
  - d. a map showing the location of the non-compliance event.
2. The Discharger shall report any deviations from Monitoring and Reporting Program No. R3-2005-0038 in writing within seven working days of the deviation.

ORDERED BY \_\_\_\_\_

Roger W. Briggs, Executive Officer

DATE \_\_\_\_\_