

STATE OF CALIFORNIA
REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL COAST REGION

STAFF REPORT FOR REGULAR MEETING OF MARCH 19-20, 2009

Prepared on February 25, 2009

ITEM NUMBER: 9

SUBJECT: **Renewal of Waste Discharge Requirements, National Pollutant Discharge Elimination System Permit No. CA0007005 for the Moss Landing Commercial Park and Moss Landing Cement Company Moss Landing Cement Company Facility, Monterey County, Order No. R3-2009-0002**

KEY INFORMATION

Location: 7697 Highway 1, Moss Landing
Type of Discharge: Calcium and magnesium depleted seawater
Permitted Flow: Phase 1 = 0.05 million gallons per day (mgd) (daily maximum)
Phase 2 = 25 mgd (daily maximum)
Phase 3 = 60 mgd (daily maximum)
Type of Treatment: Spent seawater-settling
Disposal Method: Discharge to Monterey Bay through a 620-foot long outfall/diffuser system
Existing Orders: Waste Discharge Requirements Order No. R3-2001-0030
This Action: Adopt Waste Discharge Requirements

SUMMARY

The proposed Order is a reissued NPDES permit for the facility previously known as the National Refractories magnesium plant. The updated facility will use many of the same processes as the old plant but will collect calcium from seawater in addition to magnesium. Moss Landing Commercial Park owns and Moss Landing Cement Company will operate a green cement facility and will discharge calcium and magnesium depleted seawater into Monterey Bay. The proposed Order includes waste discharge and monitoring requirements from the existing Order, with additional pollutant monitoring. The proposed Order, including the proposed Monitoring and Reporting Program (Attachment E) and the Fact Sheet (Attachment F), provide detailed information.

CHANGES FROM THE EXISTING ORDER

Changes from the existing Order include the following:

- The facility description describes the proposed process rather than the old, terminated process. The process of green cement production will sequester carbon dioxide from existing point sources, thereby eliminating or reducing the amount of carbon dioxide escaping into the atmosphere. The discharge to the ocean outfall will be calcium depleted instead of enriched. The pH of the ocean outfall water is expected to be more similar to the incoming ocean water pH
- The MRP requires increased monitoring

COMMENTS

The director of Moss Landing Marine Laboratories (Dr. Kenneth Coale), the President and CEO of Monterey Bay Aquarium Research Institute (Dr. Marcia McNutt), and Monterey Bay County Supervisor Mr. Louis Calcagno sent comments supporting the project. The Monterey Bay National Marine Sanctuary sent an authorization letter supporting the permit. No other comments were received.

ATTACHMENTS

1. Proposed Order No. R3-2009-0002
2. Support letter from Monterey Bay Aquarium Research Institute
3. Support letter from Moss Landing Marine Laboratories
4. Support letter from Monterey County Supervisor Mr. Louis Calcagno
5. Authorization letter from Monterey Bay National Marine Sanctuary

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