

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

ORDER NO. 90-078

WASTE DISCHARGE REQUIREMENTS
FOR
MITSUBISHI CEMENT CORPORATION
CUSHENBURY PLANT
CLASS III WASTE MANAGEMENT FACILITY
Lucerne Valley - San Bernardino County

The California Regional Water Quality Control Board, Colorado River Basin Region, finds that:

1. Mitsubishi Cement Corporation (hereinafter also referred to as the discharger), HCR Box 400, Lucerne Valley, California 92356, submitted current information to update the waste discharge requirements for an existing Class III Waste Management Facility (WMF). The discharger's plant is located at 5808 State Highway 18, Lucerne Valley, California, as shown in Attachment "A", incorporated herein and made a part of this Board Order.
2. The discharger operates a cement manufacturing plant which uses limestone, mined from rock units located within the vicinity of the plant, as raw materials. The raw feed material is calcined in the preheater/precalciner tower and sintered in the kiln. The clinker is cooled and ground to final product in finish mills. The cement is stored in silos for shipment to market.
3. The plant manufactures cement according to a "dry" process. Water usage at the facility is limited to the machine cooling systems, finish mills, dust suppression, cleaning activities at the maintenance shops, and domestic consumption. Water is provided to the plant through ground water wells, which are owned and operated by the discharger, located on the site in Lucerne Valley.
4. The facility is currently regulated by waste discharge requirements contained in Board Order No. 84-066. The waste discharge requirements are being updated to comply with Section 13263 of the California Water Code and to incorporate the applicable provisions of Chapter 15, Division 3, Title 23 of the California Code of Regulations.
5. The discharger discharges an average of 2 tons/day of solid waste. The plant is a 24 hr./day, approximately 330 days/year operation. The waste consists of wood, steel, paper, rubber and lunch refuse. The refuse is placed in layers mixed with waste clinker, cement, soil and rock. Final cover consists of unusable limestone from the mining process, which precludes possible wind or rain erosion. The landfill is located in the E½ of Section 10, T3N, R1E, SBB&M.

SUPERSEDED BY
BOARD ORDER NO. 90-008

6. The discharger reports that the information obtained from onsite and offsite wells, which provide water for industrial and domestic use at the plant, indicates that the depth to ground water is approximately 60 feet beneath the landfill. Samples collected from monitoring wells M1, M2, and M3 in 1989 indicate total dissolved solids (TDS) concentrations ranging from 450 to 500 mg/l.
7. Site geology in the vicinity of the WMF is a north facing alluvial fan with a minimum of 400 feet of mixed sands, gravels and clays. The alluvial soils have a moderate to high permeability.
8. The Cushenbury Springs are located approximately 1600 feet north of the WMF. The Cushenbury Canyon drainage course passes approximately 1000 feet to the east.
9. The Helendale Fault is located approximately 1200 feet east of the WMF. The Fault acts as a ground water barrier.
10. Mean annual rainfall for the general vicinity of the site ranges from 5 inches in the central basin of Lucerne Valley to over 20 inches in the San Bernardino Mountains. Ground water recharge in the Lucerne Valley Hydrologic Unit results from deep percolation of runoff from precipitation in the San Bernardino Mountains.
11. Zoning within 1000 feet of the WMF is heavy industrial.
12. The Water Quality Control Plan for the Colorado River Basin Region of California designates the beneficial uses of ground and surface waters in this Region.
13. The beneficial uses of ground waters in the Lucerne Hydrologic Unit are:
 - a. Municipal supply (MUN)
 - b. Industrial supply (IND)
 - c. Agricultural supply (AGR)
14. The Board has notified the discharger and all known interested agencies and persons of its intent to update waste discharge requirements for this discharge.
15. The Board in a public meeting heard and considered all comments pertaining to this discharge.
16. In accordance with Section 15301, Chapter 3, Title 14 of the California Code of Regulations, the issuance of these waste discharge requirements, which govern the operation of an existing facility involving negligible or no expansion of use beyond that previously existing, is exempt from the provisions of the California Environmental Quality Act (Public Resources Code, Section 21000 et seq.).

IT IS HEREBY ORDERED, that the discharger shall comply with the following:

A. Discharge Specifications

1. The treatment or disposal of the wastes specified in Finding No. 6 shall not cause pollution or a nuisance as defined in Section 13050(1) and 13050(m) of the California Water Code.
2. Waste materials shall be confined to the waste management facility as described on the attached site maps.
3. Waste material shall not be discharged on any ground surface which is less than five feet above the highest anticipated ground water level.
4. This discharge shall not cause degradation of any water supply.
5. Surface drainage from tributary areas, and internal site drainage from surface or subsurface sources, shall not contact or percolate through the wastes discharged at this site and shall be diverted away from it.
6. The exterior surfaces of the disposal area, including the intermediate and final landfill covers, shall be graded and maintained to promote lateral runoff of precipitation and to prevent ponding.
7. The discharger shall provide a final cover for closure of the landfill units in conformance with the requirements of said Chapter 15.
8. The discharger shall remove and relocate any wastes which are discharged at this site in violation of these requirements.
9. No wastes shall be placed in ponded water.
10. The WMF shall be designed, constructed, operated and maintained to prevent inundation or washout due to floods from a 100-year, 24-hour storm.
11. The discharger shall remove and properly relocate any wastes which are discharged at this site in violation of these requirements.

B. Prohibitions

1. The discharge or deposit of hazardous waste (as defined in said Chapter 15) at this site is prohibited.
2. The discharge or deposit of designated waste (as defined in said Chapter 15) at this site is prohibited unless approved by the Regional Board's Executive Officer.
3. The discharge of liquid or semi-solid waste (i.e., waste containing less than 50 percent solids) to the landfill units is prohibited unless approved by the Regional Board's Executive Officer.
4. The discharge of wastes to surface waters, surface water drainage courses, or to ground waters is prohibited.

5. The discharge or deposit of waste to land not owned or controlled by the discharger is prohibited.

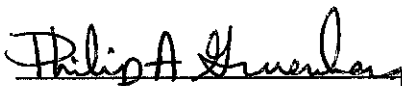
C. Provisions

1. The discharger shall immediately notify the Regional Board of any flooding, slope failure or other change in site conditions which could impair the integrity of waste containment facilities or of precipitation and drainage control structures.
2. The discharger shall maintain legible records on the volume and type of each waste discharged at the site. These records shall be available for review by representatives of the Regional Board at any time during normal business hours. At the beginning of the post-closure maintenance period, copies of these records shall be sent to the Regional Board.
3. One year prior to the anticipated closure of the facility or any unit (portion) thereof, the discharger shall submit to the Regional Board, for review and approval by the Executive Officer, a closure and post-closure maintenance plan in accordance with Section 2597 of said Chapter 15.
4. By April 1, 1991, the discharger shall submit a plan and time schedule, to the Regional Board, for compliance with the requirements of the following sections of said Chapter 15:
 - a. Section 2551: Required Programs
 - b. Section 2555: General Ground Water Monitoring Requirements
 - c. Section 2595: Waste Management Unit Characteristics
 - d. Section 2596: Design Report and Operations Plan
5. The discharger shall comply with all applicable provisions of said Subchapter 15 that are not specifically referred to in this Board Order.
6. Annually, prior to the first day of November, any necessary erosion control measures shall be implemented and any necessary construction, maintenance, or repairs of precipitation and drainage control facilities shall be completed to prevent erosion or flooding of the site; and the report thereon shall be submitted to the Regional Board by November 15 of each year.
7. Water used for site maintenance shall be limited to amounts necessary for dust control.
8. In the event of any change in ownership of the disposal site, the discharger shall notify the succeeding owner or operator in writing of the existence of this Board Order. A copy of that notification shall be sent to the Regional Board.
9. The discharger shall ensure that all site operating personnel are familiar with the content of this Board Order.
10. Prior to any change in ownership or management of this operation, the discharger shall transmit a copy of this Board Order to the succeeding owner/operator, and forward a copy of the transmittal letter to the Regional Board.

11. The discharger shall notify the Regional Board of any material change or proposed change in the character, location, or volume of the wastes discharged and of any proposed expansion plans. This notification shall be accompanied by an amended report of waste discharge and any additional information as may be required by the Regional Board's Executive Officer.
12. The discharger shall comply with "Monitoring and Reporting Program No. 90-078", and future revisions thereto, as specified by the Regional Board's Executive Officer.

IT IS FURTHER ORDERED that Board Order No. 84-066 be superseded by this Board Order.

I, Philip A. Gruenberg, Executive Officer, do hereby certify the foregoing is a full, true and correct copy of an Order adopted by the California Regional Water Quality Control Board, Colorado River Basin Region, on November 28, 1990.



Executive Officer

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

MONITORING AND REPORTING PROGRAM NO. 90-078
FOR
MITSUBISHI CEMENT CORPORATION
CUSHENBURY PLANT
CLASS III WASTE MANAGEMENT FACILITY
Lucerne Valley - San Bernardino County

Location of Discharge: E½, Section 10, T3N, R1E, SBB&M

MONITORING

The discharger shall monitor all wastes discharged to the waste management unit and report to the Regional Board the following:

1. WASTE MONITORING

<u>Item</u>	<u>Reporting Unit</u>	<u>Frequency</u>
a. Quantity Discharged	Weight/Tons	Quarterly
b. Type of Materials Discharged	-	Quarterly
c. Remaining Capacity of Waste Management Unit	Weight/Tons	Annually
d. Any Discharge of Wastes Other Than Those Allowed by this Board Order	Type, Volume and Location	Immediately upon becoming aware that the waste has been discharged together with action for immediate correction and prevention of recurrence.

2. GROUND WATER MONITORING

Ground water monitoring wells shall be sampled quarterly during March, June, September and December and analyzed for the following:

<u>Parameter</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Reporting Frequency</u>
pH	Number	Grab	Quarterly
TDS	mg/l	Grab	Quarterly
Specific Conductance	micromhos/cm	Grab	Quarterly

<u>Parameter</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Reporting Frequency</u>
VOC (Methods 601 & 602)	mg/l	Grab	Quarterly
Temperature	°F	Grab	Quarterly
Chloride	mg/l	Grab	Quarterly
Calcium	mg/l	Grab	Quarterly
Sulphate	mg/l	Grab	Quarterly

The collection, preservations and holding times of all samples shall be in accordance with EPA approved methods. All analyses shall be conducted by a laboratory certified by the State Department of Health Services to perform the required analyses.

REPORTING

1. Quarterly monitoring reports shall be submitted to the Regional Board by January 15, April 15, July 15, and October 15 of each year.
2. Annual reports for erosion control shall be submitted to the Regional Board by November 15th of each year.
3. The discharger shall arrange the data in tabular form so that the date, the constituents, and other specified information are readily discernible. The data shall be summarized in such manner as to clearly illustrate whether the waste management unit is operating in compliance with waste discharge requirements.
4. 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 program.
5. Submit monitoring reports to:

California Regional Water Quality Control Board
Colorado River Basin Region
73-271 Highway 111, Suite 21
Palm Desert, CA 92260

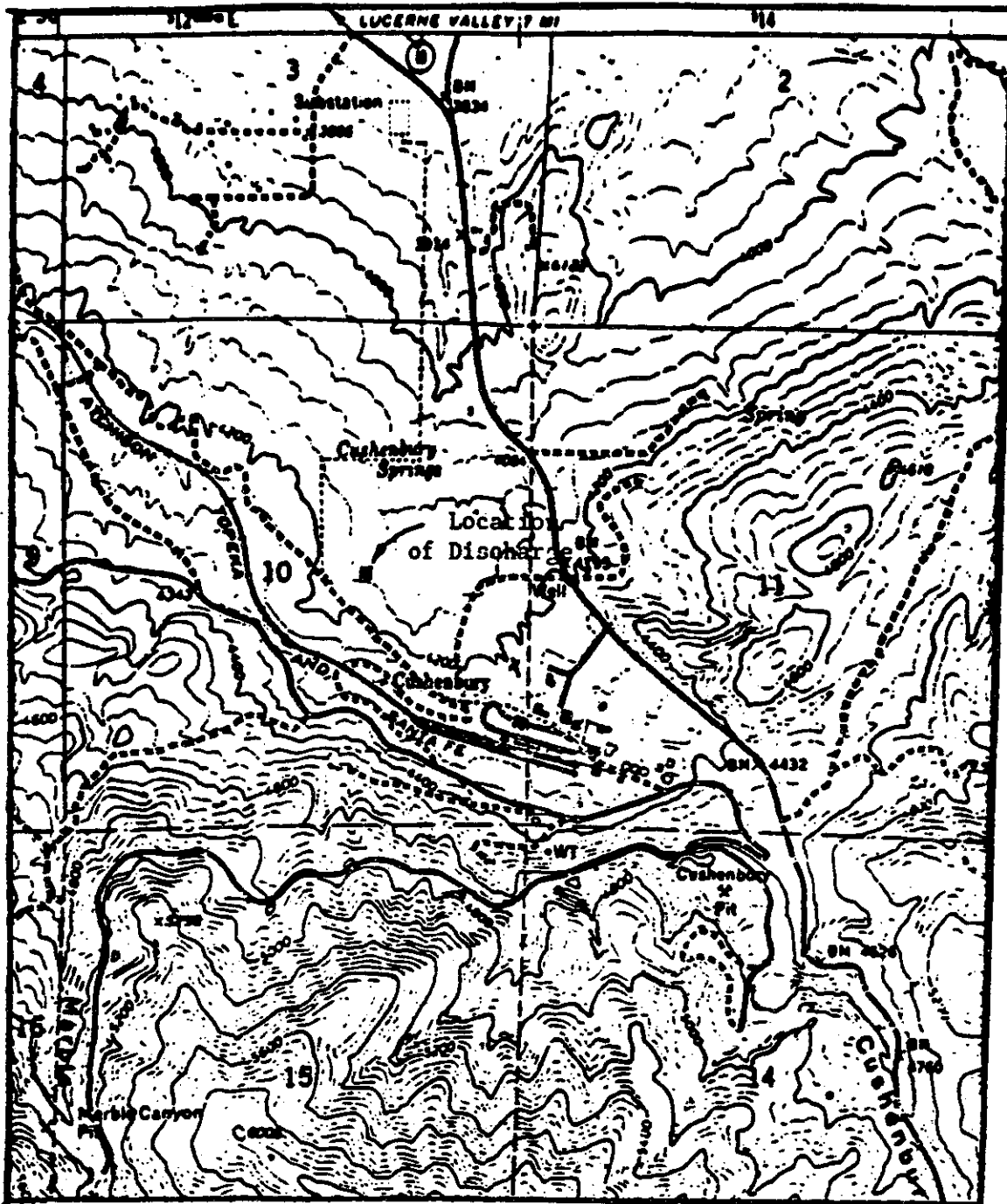
ORDERED BY:

Philip A. Greenberg
Executive Officer

November 28, 1990

Date

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD - 7



ATTACHMENT "A"

SITE MAP
MITSUBISHI CEMENT CORPORATION
Cushenbury Plant
Lucerne Valley - San Bernardino
E₁, Section 10, T3N, R1E, SBB&M
USGS 7.5 min Topographic Map - Big Bear City Quadrangle