

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
COLORADO RIVER BASIN REGION

ORDER NO. 88-60

WASTE DISCHARGE REQUIREMENTS  
FOR  
UNITED STATES GYPSUM COMPANY  
CLASS III WASTE MANAGEMENT FACILITY  
Plaster City - Imperial County

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

1. United States Gypsum Company, (hereinafter also referred to as the discharger), 3810 West Highway 80, Plaster City, CA 92269, a subsidiary of United States Gypsum Corporation, 101 South Wacker Drive, Chicago, IL 60606-4385, submitted current information to update waste discharge requirements for a Class III waste management facility (WMF). The discharger operates a gypsum wallboard manufacturing facility at Plaster City.
2. The WMF has been subject to waste discharge requirements under Board Order No. 78-13. The waste discharge requirements are being updated to comply with Section 13263 of the California Water Code, and to incorporate the applicable provisions of the revised regulations of Subchapter 15, Chapter 3, Title 23 of the California Code of Regulations.
3. The discharger submitted a Report of Waste Discharge dated March 1988 containing technical information on the site including some technical data required in Subchapter 15. The remainder of the information required in Subchapter 15 will be submitted in accordance with a time schedule included in the provisions of this Order and with the Solid Waste Assessment Testing (SWAT) report required by Section 13273 of the California Water Code. The SWAT report is due by July 1, 1988.
4. The discharger discharges 25 cubic yards per day of nonhazardous solid waste to a 60-acre Class III landfill located in the SW $\frac{1}{4}$ , Section 8, T16S, R11E, SBB&M, as shown in Attachment A incorporated herein and made a part of this Order.
5. The total capacity of the landfill is 2,347,000 cubic yards, of which 1,047,000 cubic yards have been utilized. The landfill is relatively flat. Cross sections of the landfill show that it is approximately 2 feet thick along the north boundary, but thickens to about 15 feet at the southern boundary.
6. The nonhazardous solid waste consists of gypsum, stucco, cardboard drums, wooden pallets, paper, scrap vinyl, tires, conveyer belts, tree trimmings, refrigerators, construction debris, domestic refuse, dried domestic sludge and household waste.
7. The disposal operation is conducted by covering the domestic refuse weekly with the gypsum waste products.

*Superseded  
by 96-001  
1/24/96*

8. The site is located 5 miles east of the Coyote Mountains and 15 miles east of the Jacumba Mountains. The site is underlain by sand and alternating layers of sandstone and clay sediments with some gypsum and gravel. The subsurface geology at the site is part of the Imperial Formation. The depth of sediments is estimated to be 11,000 feet. The Elsinore Fault is located approximately 8 miles west of the site.
9. Ground water in the vicinity of the facility is estimated at a depth of 100 feet. Ground water flows in an easterly direction from the Coyote Mountains to Imperial Valley, and then northward towards the Salton Sea. A United States Geological Survey Report published in 1977 indicates that TDS values range from 4680 mg/l to 54200 mg/l in the vicinity of the site.
10. The Elsinore Fault acts as a ground water barrier. A well drilled on the eastern side of the fault line contains TDS values of 15,200 mg/l. Another well which was drilled on the western side of the fault line contains TDS values of 307 mg/l.
11. The discharger, in compliance with the requirements of the SWAT program and the requirements of said Subchapter 15, installed two ground water monitoring wells and three unsaturated zone monitoring devices at the landfill as shown in Attachment B.
12. The need to protect the ground water, which is suspected of being highly saline, and for establishing background water quality limitations, will be determined at the time the technical data in the SWAT report is reviewed and at the time the discharger collects and submits the required background water quality data. Water quality data are not presently available from the background monitoring wells.
13. Average annual rainfall for the general vicinity of the site is 4 inches. Ground water recharge in the Imperial Hydrologic Unit in the vicinity of the site results from deep percolation of runoff from precipitation in the Coyote Mountains.
14. The Water Quality Control Plan for the Colorado River Basin Region of California was adopted by the Board on November 14, 1984.
15. The Basin Plan delineates the location of the discharge to be in the Imperial Hydrologic Unit which has the following beneficial uses of ground water in some areas of the Imperial Hydrologic Unit are:
  - a. Municipal supply
  - b. Industrial supply
16. The Coyote Wash is a major drainage course which passes west of the site through a gap between the Coyote and Jacumba Mountains. Surface water flow occurs during storm events.
17. Land within 1000 feet of the facility is natural desert except for the gypsum plant.
18. The Board has notified the discharger and interested agencies and persons of its intent to update waste discharge requirements for the discharge. The

Board in a public meeting heard and considered all comments pertaining to the existing discharge.

19. These waste discharge requirements govern an existing facility, which the discharger is currently operating, and therefore is exempt from the provisions of the California Environmental Quality Act in accordance with Section 15301, Chapter 3, Title 14 of the California Code of Regulations.

IT IS HEREBY ORDERED, 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(l) and 13050(m) of the California Water Code.
2. Waste material shall not be discharged outside the designated waste disposal unit as shown on Attachment B.
3. 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 landfill and shall be diverted away from it.
4. The exterior surfaces of the disposal area shall be graded to promote lateral runoff of precipitation and to prevent ponding.
5. No wastes shall be placed in ponded water.
6. The waste management units shall be designed, constructed, operated and maintained to prevent inundation or washout due to floods from a 100-year, 24-hour storm.
7. Annually, prior to the 1st day of November, any necessary erosion control measures shall be implemented, and any necessary construction, maintenance, or repairs or precipitation and drainage control facilities shall be completed to prevent erosion or flooding of the site.
8. Water used for site maintenance shall be limited to the minimum amount necessary for dust control.
9. 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 Subchapter 15) at this site is prohibited.
2. The discharge or deposit of designated waste (as defined in said Subchapter 15) at this site is prohibited unless otherwise approved by the 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.

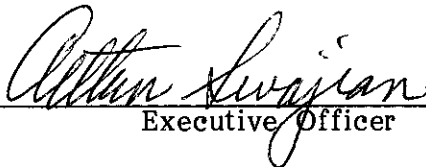
4. The discharge of waste to surface waters, or surface water drainage courses is prohibited.

#### C. Provisions

1. The discharger shall maintain a copy of this Order at the site and make it available at all times to site operating personnel.
2. The discharger shall notify the Regional Board, in writing, of any proposed change in ownership or responsibility for construction or operation of the waste management facility.
3. 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.
4. 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 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.
5. The discharger shall maintain monuments identifying the boundary limits of the entire waste management unit.
6. 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 Subchapter 15.
7. The discharger shall comply with "Monitoring and Reporting Program No. 88-60" and future revisions thereto, as specified by the Regional Board's Executive Officer.
8. The discharger shall collect quarterly samples from the background monitoring wells for a minimum of one year. The samples shall be analyzed for each of the parameters and constituents listed in the Monitoring and Reporting Program No. 88-60. During each sampling a minimum of four discrete samples shall be taken from the background monitoring wells. The data will be utilized for establishing background water quality of the ground water. If it is established that the total dissolved solids in the ground water exceeds 10,000 mg/l, background water quality sampling may be discontinued.
9. The discharger shall notify the Regional Board within seven days if fluid is detected in the unsaturated zone monitoring devices installed beneath the landfill. A sample shall be collected where feasible and analyzed for the parameters and constituents listed in the Monitoring and Reporting Program No. 88-60.

10. By September 1, 1988, the discharger shall submit to the Regional Board for approval of the Executive Officer a plan and time schedule for compliance with the requirements of the following Sections of said Subchapter 15:
  - a. Section 2555: General Ground Water Monitoring Requirements
  - b. Section 2595: Waste Management Unit Characteristics
  - c. Section 2696: Design Report and Operation Plan
  - d. Section 2523(b)(2): Periodic Load-Checking Program
11. 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.
12. 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 Order. A copy of that notification shall be sent to the Regional Board.
13. The discharger shall comply with all applicable provisions of Subchapter 15 that are not specifically referred to in this Order.
14. This Order supersedes Board Order No. 78-13

I, Arthur Swajian, 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 May 12, 1988.

  
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Executive Officer

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
COLORADO RIVER BASIN REGION**

MONITORING AND REPORTING PROGRAM NO. 88-60  
FOR  
UNITED STATES GYPSUM COMPANY  
CLASS III LANDFILL  
Plaster City - Imperial

Location of Discharge: SW $\frac{1}{4}$  Section 8, T16S, R11E, SBB&M

MONITORING

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

1. WASTE MONITORING

<u>Item</u>	<u>Unit</u>	<u>Reporting Frequency</u>
a. Quantity Discharged	Cubic Yards	Quarterly
b. Type of Materials Discharged	-	Quarterly
c. Remaining Capacity of Waste Management Unit	Cubic Yards	Quarterly
d. Any Discharge of Wastes Other Than Those Allowed In the Specification	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 analysed for the following:

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

<u>Parameter</u>	<u>Units</u>	<u>Type of Sample</u>	
Temperature	°F	Grab	Quarterly
Chloride	mg/l	Grab	Quarterly
Calcium	mg/l	Grab	Quarterly
Sulphate	mg/l	Grab	Quarterly

The collection, preservation 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.

### 3. UNSATURATED ZONE MONITORING

The vadose zone monitoring stations at the landfill shall be monitored quarterly for the presence of liquids and a sample collected where feasible and analyzed for the following:

<u>Parameter</u>	<u>Units</u>	<u>Frequency</u>
pH	Number	Quarterly
Calcium	mg/l	Quarterly
Sulphate	mg/l	Quarterly
Chloride	mg/l	Quarterly
VOC (EPA601, EPA602)	ug/l	Annually

### REPORTING

- Quarterly monitoring reports shall be submitted to the Regional Board by the 15th day of January, April, July and October of each year.
- 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.
- 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.
- The monitoring reports shall be mailed to the following address:

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

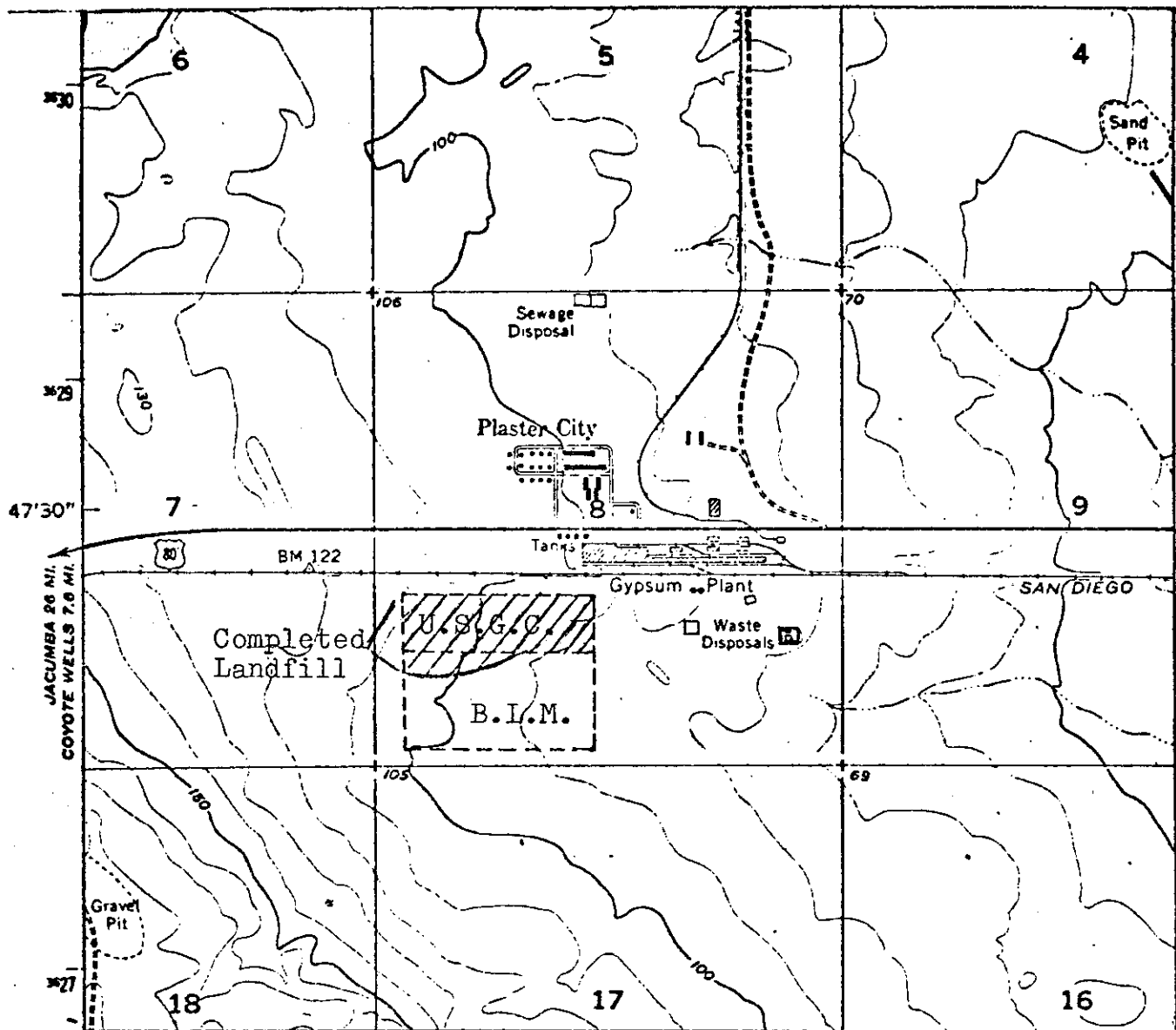
ORDERED BY:

  
Executive Officer

May 12, 1988

Date

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD-7



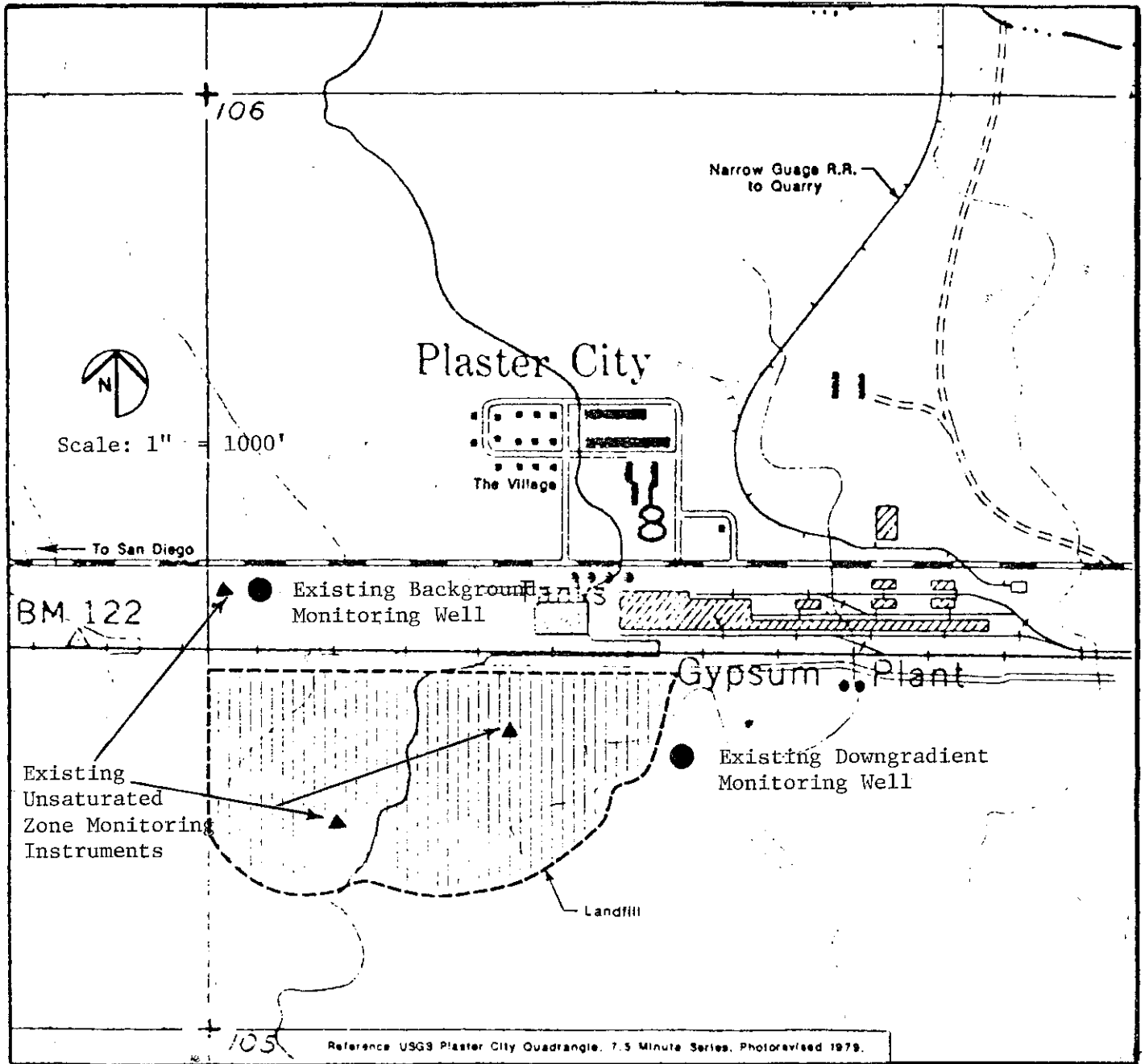
SITE MAP

ATTACHMENT A  
UNITED STATES GYPSUM COMPANY  
CLASS III WASTE MANAGEMENT FCILITY  
Plaster City - Imperial County  
SW  $\frac{1}{2}$ , Section 8, T16S, R11E, SBB&M  
USGS Plaster City 7  $\frac{1}{2}$  Topographic Map

Scale  
1"=2000'

Order 88-60





ATTACHMENT B

UNITED STATES GYPSUM COMPANY  
CLASS III WASTE MANAGEMENT FACILITY  
Plaster City - Imperial County

Order No. 88-60