

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
COLORADO RIVER BASIN REGION

ORDER NO. 91-031

WASTE DISCHARGE REQUIREMENTS  
FOR  
COUNTY OF IMPERIAL  
BRAWLEY WASTE MANAGEMENT FACILITY  
CLASS III LANDFILL  
CLASS II SURFACE IMPOUNDMENTS  
North of Brawley - Imperial County

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

1. The County of Imperial (hereinafter also referred to as the discharger), 155 South 11th Street, El Centro, CA 92243, submitted a Report of Waste Discharge on January 8, 1991 to update the waste discharge requirements for the existing site at Brawley. The disposal facility is located in Tract 141, which is the NW¼ of Section 28, NE¼ of Section 29, T13S, R14E, SBB&M. This property is owned by the County of Imperial.
2. This facility has been subject to waste discharge requirements adopted by the Regional Board on June 30, 1988 (Board Order No. 88-073). These 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 (hereinafter also referred to as Chapter 15). The total site area is 52 acres.
3. The discharger submitted a Solid Waste Assessment Testing (SWAT) report on August 9, 1989, as required by Section 13273 of the California Water Code.
4. The SWAT report contains technical information describing the site hydrogeology, topography, disposal operation and waste classification. In view of the technical information regarding municipal landfills that has become available, it is appropriate that the Regional Board adopt revised requirements for the Brawley Waste Management Facility (WMF) to include more stringent requirements to protect the quality of the ground water in the vicinity of the site.
5. The County of Imperial operates the site as a landfill.

The site presently receives:

- a. Residential refuse
- b. Commercial refuse
- c. Tires
- d. Construction/Demolition wastes
- e. Septic tank pumpings
- f. Chemical toilet wastes

9-15-93  
Adopted amended  
order  
# 93-071

Superseded  
by: Bd. Ord.  
# 97-007  
1/22/97

6. Separate units have been constructed apart from the landfill units to receive septic tank pumpings.
7. The site receives approximately 45 tons-per-day of refuse. The total capacity of the site is 2,044,000 cubic yards with 1,375,000 remaining. It has an estimated life of 26 years. Total area of the site is 52 acres. No fencing is placed around the working area of the site. A 6-inch cover is placed over the working face once every day except Sunday.
8. Solid waste disposal at this WMF is accomplished by the cut-and-fill method of operation. This operation consists of a working face of about 120 feet in front of which refuse is placed. The waste is compacted and covered with a minimum of 6 inches of soil. The landfill cells are built to a height of 10 feet above land surface.
9. Depth-to-ground water is between 6 feet and 18 feet, as determined by the three on-site ground water monitoring wells installed for the SWAT report. According to this report, total dissolved solids were measured to be between 3,350 and 16,340 mg/l. This site is underlain by soil which is predominantly clay-mixed with sand and silt. Average annual rainfall is 2.92 inches.
10. The disposal site is adjacent to the New River. Water quality data collected by the Regional Board in September 1990 indicates that the total dissolved solids concentration in the River water ranges from approximately 2,251 to 2,765 mg/l.
11. Attachment A, which shows the location of the site, is part of this Board Order.
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 designated beneficial uses of ground waters in the Imperial Hydrologic Unit are:
  - a. Municipal supply (MUN)
  - b. Industrial supply (IND)
14. Within the Imperial Valley area of the Imperial Hydrologic Unit, much of the ground water is too saline for municipal use. The existing municipal use in this Unit is practically inconsequential.
15. The beneficial uses of waters in the New River are:
  - a. Fresh Water Replenishment of Salton Sea (FRSH)
  - b. Noncontact Water Recreation (REC II)
  - c. Warm Water Habitat (WARM)
  - d. Wildlife Habitat (WILD)
  - e. Preservation of Endangered or Threatened Species (END)
16. Land within 1,000 feet of this site is zoned for agriculture.

17. It appears that the WMF characteristics are not sufficient to ensure protection of the quality of ground water in the vicinity of the site. It is not feasible to remove the wastes already in place and retrofit the site with a clay or synthetic liner and a leachate collection and removal system as specified in Article 4 of Chapter 15. New waste disposal cells may be required to have an adequate liner and a leachate collection and removal system pending evaluation of the results of the SWAT investigation.
18. The Board has notified the discharger and all known interested agencies and persons of its intent to update waste discharge requirements for this discharge.
19. The Board in a public meeting heard and considered all comments pertaining to this discharge.
20. 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. Pending evaluation of the SWAT investigation results, new solid waste disposal units constructed on top of virgin land (land which does not contain solid waste) may be required to have adequate liner and leachate collection and removal systems in accordance with Chapter 15.
2. All liquid waste management units must have adequate liner and leachate collection and removal systems in accordance with criteria contained in Chapter 15 for Class II surface impoundments. Discharge of liquid waste to the presently unlined ponds must cease by May 1, 1992.
3. The treatment or disposal of wastes at this facility shall not cause pollution or nuisance as defined in Sections 13050(1) and 13050(m) of Division 7 of the California Water Code.
4. Waste materials shall be confined to the waste management facility as described on the attached site maps.
5. Waste material shall not be discharged on any ground surface which is less than five feet above the highest anticipated ground water level.
6. This discharge shall not cause degradation of any water supply.
7. The waste management units shall be designed, constructed, operated, and maintained to prevent inundation or washout due to floods having a predicted frequency of once in 100 years.
8. 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.

9. 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.
10. Septic tank pumpings, chemical toilet wastes and drilling muds and cuttings, shall be discharged in separate waste management units constructed apart from the Class III wastes.
11. There shall be no discharge of liquid wastes other than septic tank pumpings and chemical toilet wastes in the designated disposal cells.
12. Chemical toilet wastes discharged at this site shall not contain additives prohibited by Section 66883, Chapter 30, Title 22 of the California Code of Regulations.
13. A minimum freeboard depth of two (2) feet shall be maintained at all times in the units containing liquid wastes.
14. Solid waste shall not be discharged in ponded water.
15. The discharger shall remove and relocate any wastes which are discharged at this site in violation of these requirements.
16. The discharger shall provide a final cover for closure of the landfill units in conformance with requirements of Chapter 15.
17. Water used for site maintenance shall be limited to amounts necessary for dust control.
18. The discharger shall maintain a hazardous waste load checking program at the WMF. The discharger shall report the findings of said program in the quarterly monitoring reports submitted in accordance with Provision C.4 of this Board Order.

B. Prohibitions

1. The discharge or deposit of hazardous waste (as defined in Chapter 15) at this site is prohibited.
2. The discharge or deposit of designated waste (as defined in 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 solid or liquid waste or leachate 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.
6. The codisposal of incompatible wastes is prohibited.

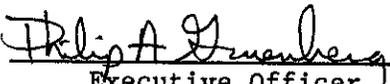
### C. Provisions

1. The discharger shall ensure that all site operating personnel are familiar with the content of this Board Order.
2. The discharger shall notify the Regional Board, in writing, of any proposed change in ownership or responsibility for construction or operation of the 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 a report of waste discharge and any additional information as may be required by the Regional Board's Executive Officer.
4. The discharger shall comply with "Monitoring and Reporting Program No. 91-031" and future revisions thereto, as specified by the Regional Board's Executive Officer.
5. 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.
6. The discharger shall maintain visible monuments identifying the boundary limits of the entire waste management facility.
7. 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 Chapter 15.
8. 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.
9. Water used for site maintenance shall be limited to amounts necessary for dust control.
10. 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.
11. The discharger shall comply with all applicable provisions of Chapter 15 that are not specifically referred to in this Board Order.
12. All containment structures, erosion and drainage control systems shall be designed and constructed under direct supervision of a California registered civil engineer and shall be certified by the individual as meeting the prescriptive standards and performance goals of Chapter 15.

13. Materials used to construct liners shall have appropriate physical and chemical properties to ensure containment of wastes over the operating life, closure and post-closure maintenance period of the landfill.
14. In-place permeabilities of liners shall be determined in the field using techniques approved by the Executive Officer. Construction methods and quality assurance procedures shall be sufficient to ensure that all parts of the liners are adequate to contain landfill leachate.
15. Each waste management unit which is required to be lined shall have a leachate collection and removal system. Leachate collection sumps shall be designed and operated to keep leachate levels at the minimum needed to ensure sufficient pump operation. Disposal of collected leachate shall be in accordance with local, state and federal regulations.
16. Materials used to construct leachate collection and removal systems shall have appropriate physical and chemical properties to ensure the required transmission of leachate through the system over the operating life, closure and post-closure maintenance period of the landfill. Materials shall have sufficient strength and thickness to prevent collapse under the pressures exerted by overlying wastes, waste cover materials and equipment used on the landfill.
17. The discharger shall maintain in good working order and operate as efficiently as possible any facility or control system installed by the discharger to achieve compliance with the waste discharge requirements.
18. This Board Order is subject to Regional Board review and updating, as necessary, to comply with changing State or Federal laws, regulations, policies, or guidelines, or changes in the discharge characteristics, in three year increments from the effective date of this Board Order.
19. The Regional Board considers the property owner to have a continuing responsibility for correcting any problems which may arise in the future as a result of this waste discharge.

IT IS FURTHER ORDERED that Board Order No. 88-073 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 May 15, 1991.

  
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Executive Officer

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
COLORADO RIVER BASIN REGION

MONITORING AND REPORTING PROGRAM NO. 91-031  
FOR

COUNTY OF IMPERIAL  
BRAWLEY WASTE MANAGEMENT FACILITY  
CLASS III LANDFILL  
CLASS II SURFACE IMPOUNDMENTS  
North of Brawley - Imperial County

Location of Discharge: Tract 141 in the NW $\frac{1}{4}$  Section 28, NE $\frac{1}{4}$  Section 29, T13S, R14E, SB&M

WASTE MONITORING

The discharger shall monitor all wastes discharged to the disposal site and report to the Regional Board the following:

<u>Item</u>	<u>Unit</u>	<u>Reporting Frequency</u>
1. Refuse discharged	Cubic Yards	Quarterly
2. Septic tank pumpings and chemical toilet wastes discharged	Gallons	Quarterly
3. Any wastes discharged other than those allowed in the requirements and in accordance with the hazardous waste load checking program	Type, Volume and Location	Immediately upon becoming aware that the waste has been discharged
4. Landfill capacity remaining	Cubic Yards	Quarterly

GROUND WATER MONITORING

The ground water monitoring wells shall be sampled quarterly during March, June, September and December. The samples shall be analyzed for the following:

<u>Parameters and Constituents</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
a. pH	Number	Grab	Quarterly
b. TDS	mg/l	Grab	Quarterly
c. COD	mg/l	Grab	Quarterly
d. Ground Water Elevations (USGS Datum)	Feet	Measurement	Quarterly
e. Nitrate	mg/l	Grab	Quarterly
f. Organic Nitrogen	mg/l	Grab	Quarterly

<u>Parameters and Constituents</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
g. Volatile Organics (EPA Method 524.2)	mg/l	Grab	Quarterly
h. Semi-Volatile Organics (EPA Method 525)	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.

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. The discharger shall arrange the data in tabular form so that the specified information is readily discernible. The data shall be summarized in such a manner as to clearly illustrate whether the waste management unit is operating in compliance with waste discharge requirements.
3. Submit monitoring reports to:

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

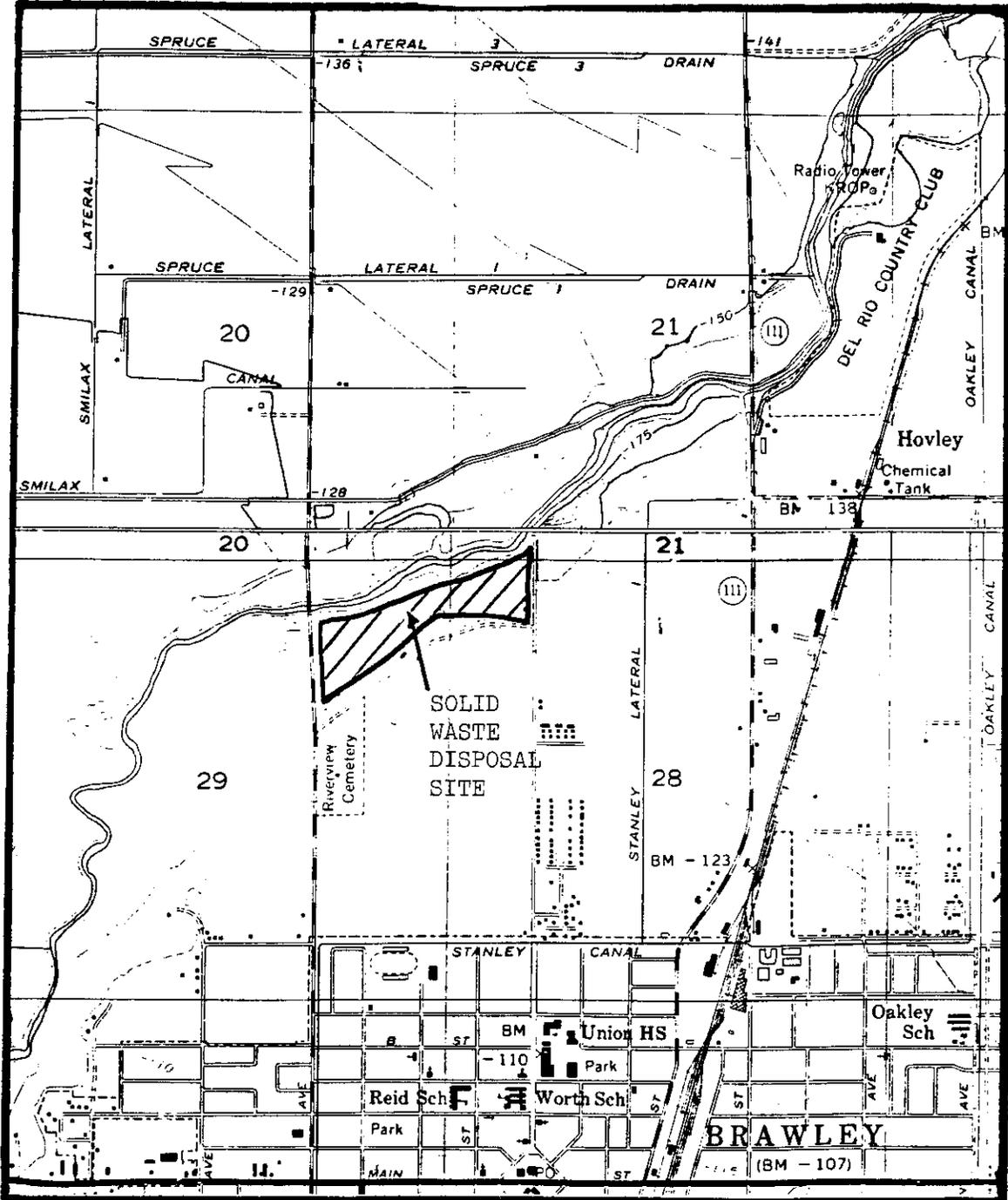
ORDERED BY:

Philip A. Gruenberg  
Executive Officer

May 15, 1991

Date

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ATTACHMENT A

COUNTY OF IMPERIAL  
BRAWLEY WASTE MANAGEMENT FACILITY  
CLASS III LANDFILL  
CLASS II SURFACE IMPOUNDMENTS  
North of Brawley - Imperial County  
NW $\frac{1}{4}$  of Section 28, NE $\frac{1}{4}$  of Section 29, T13S, R14E, SBB&M  
USGS Brawley and Westmorland 7.5 Topographic