

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN DIEGO REGION

ADDENDUM NO. 1 TO ORDER NO. 97-11

GENERAL WASTE DISCHARGE REQUIREMENTS
FOR POST-CLOSURE MAINTENANCE OF
INACTIVE NONHAZARDOUS WASTE LANDFILLS
WITHIN THE SAN DIEGO REGION

The California Regional Water Quality Control Board, San Diego Region (hereinafter Regional Board), finds that:

1. On April 9, 1997, this Regional Board adopted Order No. 97-11, *General Waste Discharge Requirements for Post-Closure Maintenance of Inactive Nonhazardous Waste Landfills Within the San Diego Region*. Order No. 97-11 established landfill maintenance requirements and water quality monitoring for landfills that ceased operation prior to 1984.
2. Order No. 97-11 lists two types of waste management units (WMUs) and owners of landfills and burn ash sites that are subject to general waste discharge requirements. During fiscal year 99/00, the Regional Board identified additional WMUs that need to be added to Order No. 97-11. This Addendum contains updated attachments of the newly identified owners of landfills subject to general waste discharge requirements.
3. Owners of landfill and/or burn ash sites that are subject to this Order, are responsible for the protection of usable waters from discharge of wastes, gases, and leachate, during the landfill maintenance period. This responsibility continues with subsequent change in reuse of the landfill for purposes other than open space.
4. Landfill cover at inactive landfills which ceased operation prior to 1984 may not be adequate to minimize percolation of liquids through wastes as described in Title 27, Section 20705.
5. The Rainbow Canyon Landfill is currently regulated by Order No. 89-101, *Waste Discharge Requirements for the Closure of Rainbow Canyon Waste Management Unit, RANPAC Engineering Corporation, Riverside County*. Order No. 89-101 established requirements for clean closure of a former burn dump. To date, the Regional Board has not received any indication that the clean closure of the burn ash will occur. In addition, the discharger has not paid annual fee for waste discharge requirements from 1993 to 1997. To ensure adequate maintenance is performed, the Rainbow Canyon Landfill would be more suitably regulated under Order No. 97-11.

6. The Regional Board has received notification from the Navy that the Old Marine Corp. Recruit Depot landfill will transfer ownership to the San Diego Unified Port District (SDUPD). The Navy has completed a "Finding of Suitability for Early Transfer" (FOSET) to document the assessment and evaluation of the environmental condition of the property and to determine the property's suitability for deed transfer. The SDUPD's plan for the inactive landfill include various airport uses, principally as a vehicle parking and staging area for shuttles, taxis, and airport employees. The transfer of ownership is reflected in Attachment No. 1 to this Addendum.
7. Inactive landfills are existing facilities and as such are exempt from the provisions of the California Environmental Quality Act in accordance with Title 14, California Code of Regulations, Chapter 3, Article 19, Section 15301.
8. The Regional Board has considered all water resource related environmental factors associated with the discharge of waste associated with these inactive landfills.
9. The Regional Board has notified interested parties of its intent to amend landfill maintenance requirements for these inactive landfills.
10. The Regional Board, in a public meeting heard and considered all comments pertaining to landfill maintenance of these inactive landfills.

IT IS HEREBY ORDERED, That Order No. 97-11 be amended as follows:

1. Add the following as Prohibition B.6:

B.6 The use of pressurized water lines overlying waste is prohibited unless the water lines are designed in accordance with Maintenance Specification C.17 .
2. Replace **C. MAINTENANCE SPECIFICATIONS** with the following:

C. MAINTENANCE SPECIFICATIONS

General Maintenance Requirements

1. The discharger shall prepare a maintenance plan by January 1, 2001, which contains, but is not limited to, the following:
 - a. The persons, companies, or agencies responsible for each aspect of landfill maintenance, along with their addresses and phone numbers.

- b. Location maps indicating property boundaries and the existing limits of waste, internal roads, and structures inside the property boundary.
 - c. A location map of the current monitoring and control systems including drainage and erosion control systems and landfill gas monitoring and control systems.
 - d. A description of the methods, procedures, schedules and processes that will be used to maintain, monitor and inspect the landfill.
2. The landfill maintenance period shall continue until the Regional Board determines that remaining wastes in all waste management units (WMUs) will not threaten water quality.
3. The discharger shall comply with all applicable requirements of Title 27, CCR, Subchapter 5, Article 2.
4. The landfilled areas shall be adequately protected from any washout, erosion of wastes or cover material. The surface drainage system shall be designed to adequately handle the rainfall from a 100-year 24 hour storm event.
5. The structural integrity and effectiveness of all containment structures and the existing cover shall be maintained as necessary to correct the effects of settlement or other adverse factors.
6. Vegetation used at the site shall be selected to require minimum irrigation and maintenance, and shall not impair the integrity of containment structures including the existing cover.
7. The migration of landfill gas from the site shall be controlled as necessary to ensure that landfill gases and gas condensate are not discharged to surface waters or ground waters. Condensate shall be collected and removed from the site except as defined in 27CCR Section 20090(e).

Erosion Control

8. Annually, prior to the anticipated rainy season but not later than **October 31**, 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, ponding, flooding, or to prevent surface drainage from contacting or percolating through wastes at the facility. In addition, maintenance, and repairs necessitated by changing site conditions can be made at any time.

9. Silt fences, hay bales, and other measures shall be used to control surface water runoff from landfill areas where landfill cover have been placed, and from areas where landfill containment system construction is occurring.
10. All areas, including surface drainage courses, shall be maintained to minimize erosion. Landfill cover shall be maintained to minimize percolation of liquids through wastes.

Surface Drainage

11. Surface water runoff within the boundary of the landfill (i.e., precipitation that falls on the landfill cover) shall be collected by a system of berms, ditches, downchutes, swales and drainage channels, and shall be diverted off the landfill to either the detention basins or to the natural watercourses offsite.
12. Surface drainage from tributary areas and internal site drainage from surface and subsurface sources shall not contact or percolate through waste and shall either be contained onsite or be discharged in accordance with applicable storm water regulations.
13. Surface drainage from the landfill is subject to State Board Order No. 97-03-DWQ, National Pollutant Discharge Elimination System (NPDES) General Permit No. CAS000001, "Waste Discharge Requirements for Discharges of Storm Water Associated with Industrial Activities Excluding Construction Activities".
14. Where flow concentrations result in erosive flow velocities, surface protection such as asphalt, concrete, riprap, silt fences or other erosion control material shall be used for protection of drainage conveyance features. Interim bench ditches shall be provided with erosion control material and riprap to control erosion where necessary.
15. Where high velocities occur at terminal ends of downchutes or where downchutes cross the landfill cover access roads, erosion control material shall be applied to exposed soil surfaces.
16. Energy dissipators shall be installed to control erosion at locations where relatively high erosive flow velocities are anticipated.

Irrigation Systems Control

17. For inactive landfills with water lines overlying waste, the design shall consider, but not be limited to, the following:
 - a. Flexible connectors;
 - b. Secondary containment;
 - c. Moisture sensors within secondary containment;
 - d. Rain sensors;
 - e. Annual leak testing;
 - f. Automatic shutoff valves; and
 - g. Maintenance plan describing the inspection and maintenance schedule for all mitigation devices.

3. Add the following as Reporting Requirement E.11:

E.11 The discharger shall perform quarterly inspections of the landfill site and report the results **semi-annually**. The report shall contain information on the site condition and a discussion of any significant findings with regard to:

 - a) General site condition;
 - b) Surface cover and slope;
 - c) Drainage facilities;
 - d) Ground water and vadose zone monitoring networks;
 - e) Methane gas control system;
 - f) Observation of seepage from the site; and
 - g) Maintenance activities at the site.

4. Add the following as Reporting Requirement E.12:

Annually, by April 30, a copy of its Storm Water Pollution Prevention Plan, or as updated shall be submitted to this office.

5. This Addendum and Order No. 97-11 supercedes Order No. 89-101.

6. Replace E. Reporting of Monitoring and Reporting Program No. 97-11 with the following:

Monitoring reports shall be submitted to the Regional Board in accordance with the following schedule:

<u>Report Frequency</u>	<u>Report Period</u>	<u>Report Due</u>
Semiannually	April – September October – March	October 30 April 30
Annually	April – March	April 30

Monitoring reports shall be submitted to:

California Regional Water Quality Control Board
San Diego Region
9771 Clairemont Mesa Blvd., Suite A
San Diego, CA 92124-1331

I, John H. Robertus, 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, San Diego Region, on June 14, 2000.

____original signed by_____
JOHN H. ROBERTUS
Executive Officer