

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN DIEGO REGION

ADDENDUM NO. 1 TO ORDER NO. 94-164
AN ADDENDUM AMENDING WASTE DISCHARGE REQUIREMENTS
FOR THE
JAMACHA LANDFILL
SAN DIEGO COUNTY

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

1. On December 8, 1994, this Regional Board adopted Order No. 94-164 establishing waste discharge requirements for the Jamacha Landfill.
2. The Jamacha Landfill operated from 1960 to 1978. Pursuant to Title 27, Section 20080(g), landfills which were closed, abandoned, or inactive on or before November 27, 1984 are not specifically required to be closed in accordance with Title 27, Subchapter 5, Articles 1 and 2. However, these landfills are subject to post-closure maintenance requirements in accordance with Title 27, Section 21090 (b) and (c); and other requirements for the protection of water resources (Section 20380 *et seq.*).
3. The County of San Diego is responsible for the protection of usable waters from discharge of wastes, gases, and leachate, during the landfill maintenance period. This responsibility continues with any subsequent change in land use of the landfill for purposes other than to 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. As part of the FY 2000/2001 **Waste Discharge Order Update Program**, Order No. 94-164 has been reviewed by Regional Board staff as required by Section 13263 of the California Water Code. This Order updates the findings and requirements of Order No.94-164 in order to address current State and Regional Board policies, regulations and the current status of the landfill.
6. In May 1994, a solid waste water quality assessment test (SWAT) identified eighteen volatile organic compounds and elevated concentrations of inorganic constituents in groundwater monitoring wells located downgradient from the landfill facility. In June 1994, the Regional Board staff determined that migration of waste constituents was occurring from the waste containment unit at the Jamacha Landfill.

7. The "1998 Annual Report – Detection Monitoring Program –Jamacha Landfill" indicates that volatile organic compounds (VOCs), semi-volatile compounds (SVOCs), and elevated concentrations of inorganic constituents were detected in downgradient groundwater resources monitoring wells. The discharge of VOC, SVOC, and inorganic constituents from the landfill to groundwater has created a condition of nuisance or pollution.
8. On June 29, 1999 the Regional Board issued Cleanup and Abatement Order (CAO) No. 99-42, under the authority of Water Code Section 13304, to the County of San Diego. The CAO contains directives for further evaluation and corrective action programs for cleanup of groundwater pollution associated with the discharge of wastes at the landfill. The County of San Diego is currently developing an evaluation monitoring program in preparation for evaluating corrective action alternatives for the site.
9. The Regional Board finds that a variety of approaches may be effective as Best Management Practices (BMPs) for control of surface water runoff and erosion of cover materials. BMPs for control of surface water runoff should be used in areas where cover materials have been placed and in areas undergoing landfill containment system construction or maintenance. Effective BMPs are best implemented on a site-specific basis and may include, but are not limited to, the use of: bonded fiber matrix materials, anchored fiber rolls, fiber blankets, and other measures as appropriate.
10. The Jamacha Landfill is an existing facility and as such is 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.
11. The Regional Board has considered all water resource related environmental factors associated with the Jamacha Landfill.
12. The Regional Board has notified interested parties of its intent to update waste discharge requirements for the Jamacha Landfill.

The Regional Board, in a public meeting heard and considered all comments pertaining to the Jamacha Landfill.

IT IS HEREBY ORDERED, That Order No. 94-164 be amended as follows:

1. Add the following as **Prohibition 7**:

The use of pressurized water lines overlying waste is prohibited unless the water lines are designed in accordance with Post-Closure Maintenance Specification B.

4.

2. Replace **B. POST-CLOSURE MAINTENANCE SPECIFICATIONS** with the following:

B. MAINTENANCE SPECIFICATIONS

General Maintenance Requirements

1. The discharger shall prepare a maintenance plan by **September 30, 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. Annually by **April 30**, the discharger shall submit any and all modifications to the landfill maintenance plan as part of the Annual Summary Report. If no modifications have been made since the previous year, the discharger shall provide a statement to that effect in the Annual Summary Report.
3. 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.
4. The discharger shall comply with all applicable requirements of Title 27, CCR, Subchapter 5, Article 2.
5. Waste containment structures/units 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.

6. 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.
7. 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.
8. 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).
9. The site shall be provided with at least two permanent monuments installed by a licensed land surveyor or a registered civil engineer, from which the location and elevation of wastes, containment structures and monitoring facilities can be determined throughout the post-closure maintenance period.

Erosion Control

10. 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.
11. Structural and non-structural Best Management Practices (BMPs) shall be used to prevent erosion of cover materials and in areas undergoing landfill containment system construction and/or maintenance.
12. All areas, including surface water drainage courses, shall be maintained to minimize erosion. The landfill cover shall be maintained to minimize percolation of liquids through wastes.
13. 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.

14. Surface water runoff 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.
 15. Surface water runoff 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".
 16. Where surface water runoff results 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.
 17. Where surface water runoff results in erosive flow velocities at terminal ends of downchutes or where downchutes cross the landfill cover access roads, erosion control material shall be applied to exposed soil surfaces.
 18. Energy dissipators shall be installed to control erosion at locations where relatively high erosive flow velocities of surface water runoff are anticipated.
 19. 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. Replace **Provision C.2.** with the following:
- "The discharger shall comply with the applicable provisions of California Code of Regulations Title 27 and all conditions of this Order. Any noncompliance with this Order constitutes a violation of the California Water Code and is grounds for: (a) enforcement action; (b) termination, revocation and reissuance, or modification of this Order; or (c) denial of a Report of Waste Discharge in application for new or revised Waste Discharge Requirements."

4. Replace **Provision C.12** with the following:

“Alternatives, exceptions, and exemptions or waivers from requirements of California Code of Regulations Title 27 (“27CCR”) shall be subject to the approval of the Regional Board and shall be authorized only as provided for by 27CCR. Implemented alternatives to 27CCR requirements shall meet the conditions for approval of such alternatives established in 27CCR throughout the post-closure period.”

5. Replace **Reporting Requirement D. 10** with the following:

“The discharger shall submit a copy of the Storm Water Pollution Prevention Plan by April 30, 2001. Subsequently, the discharger shall submit any and all modifications to the SWPPP as part of the Annual Summary Report due April 30. If no modifications have been made since the previous year, the discharger shall provide a statement to that effect in the Annual Summary Report.”

6. Add the following as **Reporting Requirement D.11**:

“Monitoring reports shall be submitted to:

Executive Officer
 California Regional Water Quality Control Board
 San Diego Region
 9771 Clairemont Mesa Blvd., Suite A
 San Diego, CA 92124-1331
 Attn: Land Discharge Unit Supervisor”

7. Replace **E. Reporting of Monitoring and Reporting Program No. 94-164** 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 30
	October – March	April 30
Annually	April – March	April 30

Monitoring reports shall be submitted to:

Executive Officer
California Regional Water Quality Control Board
San Diego Region
9771 Clairemont Mesa Blvd., Suite A
San Diego, CA 92124-1331"
Attn: Land Discharge Unit Supervisor"

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 March 14, 2001.



JOHN H. ROBERTUS
Executive Officer