

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
LAHONTAN REGION

BOARD ORDER NO. R6V-2004-0027A1  
WDID NO. 6B360304025

AMENDED WASTE DISCHARGE REQUIREMENTS

FOR

VICTORVILLE SANITARY LANDFILL

San Bernardino County

The California Regional Water Quality Control Board, Lahontan Region (Regional Board) finds:

1. Discharger

The County of San Bernardino owns and operates the Victorville Sanitary Landfill (VSL). On November 14, 2005, the San Bernardino County Department of Public Work, Solid Waste Management Division, submitted an amended Joint Technical Document (JTD) for the VSL project. The amended JTD, previously revised in August 2005, represents the necessary information to constitute a complete amended Report of Waste Discharge (RWD) for the VSL project. For the purposes of this Regional Board Order (Order), San Bernardino County is referred to as the "Discharger."

2. Facility

For the purposes of this Order, the VSL is referred to as the "Facility." The Facility is an active Class III solid waste management unit. The Facility is located in San Bernardino County in the High Desert Region of the Victor Valley. The Facility is approximately four miles north of the City of Victorville, just west of Interstate 15, within Section 23, T6N, R4W, San Bernardino Baseline and Meridian.

3. Reason for Action

The Regional Board is amending Waste Discharge Requirements (WDRs) to eliminate the requirement that the liner foundation material be constructed with a permeability of  $1 \times 10^{-6}$  centimeters per second (cm/sec) or less. The foundation material provides a stable base for the Geosynthetic Clay Liner (GCL)<sup>1</sup> and is required to be constructed to minimize or eliminate punctures to the overlying GCL. A higher permeability liner foundation material will not alter the overall performance of the liner system as long as the construction standards and the construction quality assurance plan are followed.

<sup>1</sup> Geosynthetic Clay Liners are factory manufactured, hydraulic barriers typically consisting of bentonite clay or other very low permeability clay materials, supported by geotextiles and/or geomembranes which are held together by needling, stitching and/or chemical adhesives.

4. California Environmental Quality Act (CEQA)

This amendment to Board Order R6V-2004-0027 governs an existing facility, which is currently operating and is therefore exempt from the provisions of the California Environmental Quality Act (Public Resources Code, Section 2100 et seq.) in accordance with Section 15301, Chapter 3, Title 14, California Code of Regulations.

5. Public Notification

The Regional Board has notified the Discharger and interested agencies and persons of its intent to amend WDRs for the VSL. The Regional Board, in a public meeting, heard and considered all comments pertaining to the discharge.

**IT IS HEREBY ORDERED** that Findings, Requirements and Prohibitions, of Board Order No. R6V-2004-0027 be revised, amended, or inserted as follows:

[Revise as follows]

Findings

[Insert the following Findings items]

25. Engineered Alternative Design

Title 27, CCR Section 20080(b) allows the Regional Board to consider the approval of an engineered alternative to the prescriptive standard. In order to approve an engineered alternative in accordance with Title 27, CCR, Section 20080(c)(1) and (2), the Discharger must demonstrate that the prescriptive design is unreasonably and unnecessarily burdensome and will cost substantially more than an alternative, which will meet the criteria contained in Title 27, CCR, Section 20080(b), or would be impractical and would not promote attainment of applicable performance standards. The Discharger must also demonstrate that the proposed engineered alternative liner system is consistent with the performance goal addressed by the particular prescriptive standard, and provides protection against water quality impairment equivalent to the prescriptive standard in accordance with Title 27 CCR Section 20080(b)(2).

26. Performance Demonstration

The Discharger has demonstrated that construction of a Subtitle D prescriptive standard liner system would be unreasonable and unnecessarily burdensome when compared to the proposed engineered alternative design. There is no clay source on-site or nearby and the cost of importing clay from off-site or mixing on-site soils with bentonite would cost substantially more than the alternative design. The Discharger has also demonstrated that the proposed engineered alternative is consistent with the performance standard goals of the prescriptive standard and affords at least equivalent protection against water quality impairment.

[Revise as follows]

III. REQUIREMENTS AND PROHIBITIONS

[replace Requirement III.B.1. with the following]

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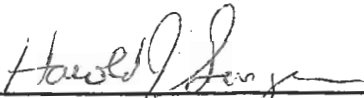
1. A one-foot thick engineered liner foundation soil layer beneath the GCL/base liner system shall be constructed of select fine-grained soil materials with a maximum particle size of 1-inch and exhibiting rounded to subrounded clasts, and which shall be scarified and re-compacted to 95% of maximum dry density and a minimum of 2% over optimum moisture content. The subgrade for the bottom and the side slopes of the Unit shall be prepared in an appropriate manner using accepted engineering and construction methods so as to provide a smooth surface that is free from protruding rocks, sticks, or other debris that could damage or otherwise limit the performance of the GCL.

...

[Insert the following under REQUIREMENTS AND PROHIBITIONS]

4. At least forty-five days prior to starting construction the Discharger shall submit a revised construction quality assurance (CQA) plan that incorporates liner performance testing methods and pass/fail criteria that will be used.
5. Following the completion of construction of a Unit or portion of a Unit, and prior to discharge onto the newly constructed liner system, the final documentation required in Title 27 CCR Section 20324(d)(1)(C) shall be submitted to the Regional Board for review and approval. The report shall be certified by a registered civil engineer or a certified engineering geologist. It shall contain sufficient information and test results to verify that construction was in accordance with the design plans and specifications, and with the prescriptive standards and performance goals of Title 27.

I, Harold J. Singer, Executive Officer, do hereby certify that the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, Lahontan Region, on May 11, 2006.



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HAROLD J. SINGER  
EXECUTIVE OFFICER