

**STATE OF CALIFORNIA
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION**

ORDER NO. R4-2002-0128

**WASTE DISCHARGE REQUIREMENTS
AND POST-CLOSURE MAINTENANCE**

**CITY OF LOS ANGELES
(BISHOPS CANYON LANDFILL)
(File No. 64-151)**

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

1. The City of Los Angeles, through its Bureau of Sanitation (hereinafter "Discharger) owns and operated the Bishops Canyon Landfill (Landfill). The Landfill is located in Elysian Park at 1003 Academy Road, Los Angeles, CA 90012. (Figure 1, attached).
2. The Landfill is a closed municipal refuse disposal facility that was operated by the Discharger between June 6, 1966 and November 7, 1969. The Landfill is comprised of approximately 45 acres, with a top deck area of approximately 19 acres, and a front face that slopes towards the south. There is approximately a 200-foot elevation difference between the top deck of the Landfill and the base. The Landfill received approximately 1.66 million tons of refuse during its active life.
3. The Landfill was classified as what would currently be referred to as a Class III solid waste disposal site suitable for receiving commercial and residential refuse and inert solids.
4. The Landfill was operated under the requirements of Regional Board Resolution No. 65-34, adopted May 19, 1965.
5. California Water Code (CWC) section 13263, provides that all requirements shall be reviewed periodically and, upon such review, may be revised by this Regional Board.
6. The State Water Resources Control Board and the Regional Boards have regulated nonhazardous solid waste landfills (which include former Class II-2 landfills, now referred to as Class III) since the 1960's through the issuance of Waste Discharge Requirements (WDRs). The applicable regulations governing landfills in California, division 3, chapter 15 (Discharges of Waste to Land) of title 23, California Code of

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Regulations (23 CCR), are now contained in California Code of Regulations title 27 (27 CCR).

7. Pursuant to 27 CCR section 20080(g), landfills that were closed, abandoned, or inactive (CAI) on November 1984 are not specifically required to be closed in accordance with 27 CCR section 20950 et seq. However, these landfills are subject to post-closure maintenance requirements in accordance with 27 CCR section 20080(g).
8. Pursuant to 27 CCR section 20080(g), persons responsible for discharges at landfills that are closed, abandoned, or inactive may be required to develop and implement a monitoring program. If water quality impairment is found, such persons may be required to develop and implement a corrective action program based on the provisions of 27 CCR section 20380 et seq.
9. This Regional Board may require formal closure of a landfill in accordance with 27 CCR, division 2, chapter 3, subchapter 5, articles 1 and 2 under the following conditions:
 - a. when there is a proposed site development or land use change that jeopardizes the integrity of the existing cover;
 - b. when water quality impairment is found, as part of a groundwater monitoring program; or
 - c. when nuisance conditions exist that warrant such activity.
10. Between 1969 and 1974, the Discharger completed closure activities at the site that included final cover construction and grading, and drainage improvements to accommodate a 100-year, 24-hour storm. In 2002, the landscaping was completed, making the Landfill an integral part of Elysian Park. Although not required to do so because of the CAI status of the Landfill, the Discharger submitted a Final Closure and Post-Closure Maintenance Plan (FCPCMP), for the site (dated January 7, 1999) to solicit regulatory approval for existing closure improvements under current regulatory requirements. The FCPCMP was prepared pursuant to requirements of 27 CCR, division 2, subdivision 1, chapter 3, subchapter 4 "Development of Closure/Post-Closure Maintenance Plans."
11. All intermittent streams in Elysian Park flow to the south and southeast. Surface water ultimately drains toward the Los Angeles River. This location is part of the West Coast Hydrologic Subarea of the Coastal Plain Hydrologic Area of the Los Angeles – San Gabriel Hydrologic Unit, Central Basin of the Los Angeles Coastal Plain Basin.
12. The Landfill is not lined and has no leachate collection and removal system.

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13. The Landfill has a passive gas collection system. Other environmental control measures include a methane detection system in the Elysian Park Therapeutic Center (located at the southeast corner of the site at the toe of slope) and restroom facilities (located on the top deck), and an air injection system and perimeter probes.
14. The site is underlain by bedrock of the Puente Formation, which consists of Miocene age interbedded sandstone, siltstone, and shale.
15. The post-closure end use for the Landfill is an active recreational facility, which includes a sports complex, trails, and picnic facilities.
16. As part of the FCPCMP, the Discharger submitted a static and dynamic slope stability analysis for the final refuse fill slopes and the soil cover. The results indicate that final refuse fill slopes and the soil cover have a minimum factor of safety of 1.5 for static stability, and can tolerate accelerations of up to 0.55g from a maximum credible earthquake on the Hollywood-Raymond Fault.
17. Because of the age and character of the underlying waste, it is anticipated that the majority of settlement has already occurred. However, the Discharger will maintain survey control monuments to provide reference points for measurement, and perform aerial photographic surveys and produce iso-settlement maps every 5 years throughout the post-closure maintenance period.
18. Pursuant to 27 CCR section 21090(a), engineered alternative final cover designs are allowed, provided the engineered alternative is as effective in limiting precipitation from reaching the waste as a prescriptive standard for the final cover design. An average of more than 15 feet of soil overlies the refuse. A technical memorandum by GeoSyntec Consultants, submitted for the Discharger in March 2000, reported results of computer modeling using the UNSAT-H program. Based on the final cover soil profile, soil properties, weather data, vegetation data, and incorporating the use of a “smart” irrigation system, results indicate the proposed alternative final cover will perform better than a 27 CCR prescriptive final cover design. Additionally, the Discharger performed four permeability tests of the existing cover and two locations designated by the local enforcement agency (LEA) and at two additional locations. The results of the testing indicate that the existing soil cover meets or exceeds existing State and/or Federal permeability requirements for landfill covers. The thickness of the Landfill cover ranges from nine to 39 feet which is at least three times that required for a prescriptive final cover system. The Discharger shall make all necessary modifications to improve the performance of the alternative final cover should ground water monitoring results indicate the Landfill is leaking waste constituents.

19. One pressure-vacuum lysimeter exists at the Landfill to monitor soil pore water quality (Figure 2, attached). To date, the lysimeter has been dry and no samples have been collected from these monitoring devices. The Discharger does not propose to continue monitoring the lysimeter during the post closure maintenance period.

20. The FCPCMP proposes the following:

I. CLOSURE

- a. Final grades in the area of the baseball fields are 1% with a subdrain beneath the soil cover. The remaining soil cover on the top deck of the Landfill is graded at 3% to provide for storm water runoff and to prevent ponding. Side slopes are graded at 2:1 horizontal to vertical with 20-foot benches every 30 to 40 vertical feet.
- b. Vegetation will prevent erosion on the top cover.

II. POST-CLOSURE MAINTENANCE

The Discharger shall inspect the Landfill for the following:

	<u>Inspection Period</u>
1. Site Security	Monthly
2. Landfill Gas Monitoring and Maintenance	Monthly
3. Groundwater System Inspection and Maintenance	Quarterly
4. Final Cover Inspection and Maintenance	Semiannual
5. Drainage System Inspection and Maintenance	Semiannual
6. Vegetative Cover Inspection and Maintenance	Semiannual
7. Final Grading	Yearly
8. Settlement Analysis	5-Years

21. CWC section 13273 requires the State Water Resources Control Board to develop a ranked list of all known landfills throughout the state on the basis of the threat to water quality. Section 13273 requires the operator of each solid waste disposal site on the ranked list to conduct and submit to the appropriate regional board the results of a Solid Waste Assessment Test (SWAT) report to determine if the site is leaking hazardous waste. The Discharger submitted a SWAT report on July 5, 1989 for the Landfill. Four groundwater monitoring wells were installed. This Regional Board conditionally approved the SWAT on May 12, 1994. The SWAT concluded that the Landfill was not affecting groundwater quality in the vicinity of the Landfill.

22. This Regional Board adopted a revised Water Quality Control Plan for the Los Angeles Region on June 13, 1994. The Plan contains beneficial uses (municipal and domestic

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supply, agricultural supply, industrial process supply, industrial service supply, groundwater recharge, and freshwater replenishment) and water quality objectives for groundwater in the Region. The requirements in this Order, as they are met, will be in conformance with the goals of the Water Quality Control Plan.

23. 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.
24. In accordance with the Governor's Executive Order D-22-01, dated February 8, 2001, requiring any proposed activity be reviewed to determine whether such activity will cause additional energy usage, Regional Board staff have determined that implementation of these WDRs will not result in a significant change in energy usage.

This Regional Board has notified interested agencies and all known interested parties of its intent to issue post-closure maintenance requirements for these inactive landfills.

This Regional Board in a public meeting heard and considered all comments pertaining to post-closure maintenance of this Landfill.

IT IS HEREBY ORDERED, that the City of Los Angeles shall comply with the following at the Bishops Canyon Landfill:

A. SPECIFICATIONS

1. The City shall comply with all applicable post-closure requirements of 27 CCR section 21090 et seq. (Closure and Post-Closure Maintenance Standards for Disposal Sites and Landfills) at the Landfill.
2. The City shall remove and relocate any wastes that are discharged at the site in violation of these requirements. For the purposes of these requirements, a legal point of disposal is defined as one for which WDRs have been established by a California regional water quality control board, and is in full compliance therewith. For a legal point of disposal outside the State of California, the legal point of disposal means a facility that is lawfully permitted under applicable state and federal laws to receive the type of waste improperly disposed of at the site.
3. Within 90 days of the adoption of this Order the City shall submit a technical report, to be approved by the Executive Officer, which provides all relevant data and information to justify cessation of monitoring at the pressure vacuum lysimeter BC-L.

General Maintenance Requirements

4. The City shall follow the maintenance plan in these WDRs and the FCPCMP. If there is any conflict between provisions stated within the WDRs and the FCPCMP, the WDRs provisions will prevail.
5. The Landfill maintenance period shall continue until this Regional Board determines that remaining wastes at the site will not threaten water quality.
6. The City shall perform inspections of the Landfill and report the results pursuant to the FCPCMP as listed in Finding No. 19(II) of the FCPCMP. The report shall contain information on site conditions and a discussion of any significant findings with regard to:
 - a) General site conditions;
 - b) Surface cover and slopes;
 - c) Drainage facilities;
 - d) Groundwater, vadose zone, soil moisture monitoring networks;
 - e) Methane gas control systems;
 - f) Observation of seepage from the site; and
 - g) Maintenance activities at the site.
7. The City shall undertake any appropriate measures to repair and correct any damage observed at the Landfill during site inspections.
8. The City shall conduct a thorough and comprehensive inspection of the Landfill within one-week after any physical disturbances such as earthquakes, storms, or fires.
9. Landfilled areas shall be adequately protected from any washout or erosion of wastes or cover materials. The surface drainage system shall be designed to adequately handle rainfall from a 100-year, 24-hour storm event.
10. The structural integrity and effectiveness of all containment structures and the existing cover shall be maintained as necessary to accommodate the effects of settlement or other adverse factors.
11. 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 groundwater.
12. The City shall initiate within 30 days of occurrence, repair and restore to design conditions, and in accordance with construction specifications, any deficiencies, damages to, or failure of the final cover, final grade, side slopes, drainage system, settlement, and monitoring system. The design of repair or restoration projects shall include the

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development of a project construction schedule submitted for approval by the Executive Officer.

13. For each monitoring point described in this Order, the City shall monitor semiannually the following monitoring parameters in groundwater, and surface water, for the detection monitoring program. In determining whether measurably significant evidence of a release from the waste management unit exists, concentration limits of constituents of concern, listed in Provisions No. D.4.c of this Order, shall be used for the following monitoring parameters:

<u>Groundwater Monitoring Parameters</u>	<u>Test Method</u>
COD	EPA 410.4
TOX	EPA 9020
TOC	EPA 415.1
TDS	EPA 160.1
Chloride	EPA 300.0
Sulfate	EPA 300.0
Boron	EPA 6010
Hydroxide Alkalinity (CaCO ₃)	Std. M2320B
Total Hardness (as CaCO ₃)	Std. M2340
Volatile Organics	EPA 8260
Electrical Conductivity	Field
pH	Field
Groundwater Elevation	Field

14. Once each year, during the Winter/Spring monitoring period, all wells shall be sampled and these samples analyzed for:

<u>Groundwater Monitoring Parameters</u>	<u>Test Method</u>
Volatiles*	EPA 8260
Semi-volatiles*	EPA 3510/8270
Pesticides*	EPA 3510/8080
PCB's*	EPA 3510/8080
Metals**	EPA 6010 (else, see below)
Biological Oxygen Demand	EPA 405.1
Bicarbonate	Std. Method 2320B
Carbonate	Std. Method 2320B
Foaming Agents	EPA 425.1
Herbicides	EPA 8150
Nitrate (as N)	EPA 300.0
Nitrite	EPA 300.0
Oil and Grease	EPA 413.2

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Sulfate	EPA 300.0
Sulfides	EPA 376.2
Total cyanide	EPA 335.2
Total phenols	EPA 420.1
Turbidity	NTU; EPA 180.1

*All peaks greater than 10% of the internal standard shall be identified and quantified for gas chromatography analyses.

** Aluminum, Antimony, Arsenic (EPA 7060), Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Hexavalent chromium (Std. Method 3500 CrO), Lead, Magnesium, Mercury (EPA 7470), Molybdenum, Nickel, Potassium, Selenium (EPA 7740), Silver, Sodium, Strontium, Thallium, Tin, Vanadium, and Zinc.

15. Within 90 days of the adoption of this Order, the City shall submit a technical report, to be approved by the Executive Officer, which identifies any monitoring wells or monitoring devices that penetrate the refuse fill at the site. This technical report must explain the value of these wells or devices for the purposes of water quality monitoring and/or post-closure maintenance operations. The City shall decommission any well or monitoring device that is not deemed valuable by this Regional Board for the purposes of water quality monitoring and/or post-closure maintenance operations. Decommissioning of any wells and or monitoring devices at the site shall be in accordance with California Well Standards (California Department of Water Resources Bulletin 74-90).

Erosion Control

16. 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 and flooding, or to prevent surface drainage from contacting or percolating through wastes at the facility on an annual basis. The annual erosion control measures shall be completed prior to the anticipated rainy season but not later than October 31. In addition, maintenance, and repairs necessitated by changing site conditions shall be made at any time of year. A description of all erosion control measures used at the site shall be included in the annual monitoring report contained in the Monitoring and Reporting Program No. CI-4914.
17. Silt fences, hay bales, and other erosion control measures shall be used to manage surface water runoff from landfill areas where landfill cover has recently been constructed, and from areas where landfill containment system construction is occurring.

18. 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

19. 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.
20. Surface water runoff within the boundaries 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 desilting basins or to natural watercourses offsite.
21. 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.
22. Where flow concentrations result in erosive flow velocities, surface protection such as asphalt, concrete, riprap, silt fences or other erosion control materials shall be used for protection of drainage conveyance structures. Interim bench ditches shall be provided with erosion control material and riprap to control erosion where necessary.
23. Where high velocities occur at terminal ends of downchutes, or where downchutes cross landfill cover access roads, erosion control material shall be applied to exposed soil surfaces.
24. Energy dissipaters shall be installed to control erosion at locations where relatively high erosive flow velocities are anticipated.

Irrigation Systems Control

25. Irrigation systems at the Landfill shall be fully automated and shall include rain gauge and moisture sensors to only deliver the amount of water necessary to sustain the growth of a healthy vegetative cover. The irrigation system shall be designed to automatically shut down when the vegetation has received a sufficient amount of water.
26. For any 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. A maintenance plan describing the inspection and maintenance schedule for all mitigation devices.

B. PROHIBITIONS

1. The discharge or deposit of waste, in any form, at this site is prohibited.
2. Discharges of waste to land as a result of inadequate post-closure maintenance practices and that have not been specifically described to the Regional Board and for which valid WDRs are not in force, are prohibited.
3. Odors, vectors, and other nuisances of waste origin beyond the limits of the Landfill site are prohibited.
4. The discharge of waste to surface drainage courses or to usable groundwater is prohibited.
5. Basin Plan prohibitions shall not be violated.
6. The use of pressurized water lines overlying waste is prohibited unless the water lines are designed in accordance with the Irrigation Systems Control (Specification No. A-32).

C. NOTIFICATIONS

1. Closure and post-closure maintenance of this waste management unit may be subject to regulations of the California Integrated Waste Management Board or the South Coast Air Quality Management District.
2. Definitions of terms used in this Order shall be as set forth in 27 CCR.

D. PROVISIONS

1. This Order includes the attached Monitoring and Reporting Program (MRP) No. CI 4914 (Attachment T), which is incorporated herein and made part of this Order by reference.
2. The FCPCMP submitted by the City for the Landfill, dated December 1998, is conditionally approved by this Regional Board pending results of the proposed two-year performance evaluation of the alternative final cover system as described in the FCPCMP.

Monitoring

3. The City shall implement the approved Monitoring and Reporting Program No CI-4914 and revisions thereto in order to detect, at the earliest opportunity, any unauthorized discharge of waste constituents from the Landfill, or any unreasonable impairment of beneficial uses associated with (caused by) discharges of waste to the Landfill.
4. The City shall follow the Water Quality Protection Standards (WQPS) for detection monitoring established by this Regional Board in this Board Order pursuant to 27 CCR section 20390. The following are five parts (a through e, below) of the WQPS as established by the Regional Board:
 - a. In accordance with 27 CCR, section 20390, the following are WQPS for this facility:

<u>Constituents</u>	<u>Units</u>	<u>WQPS</u>
Total dissolved solids (TDS)	milligrams per liter (mg/l)	2310
Sulfate	mg/l	810
Chloride	mg/l	150
Boron	mg/l	2.0

WQPS for TDS, sulfate, and chloride, reflect site specific background water quality. WQPS may be modified by this Regional Board based on more recent or complete groundwater monitoring data such as from the monitoring network required by this Order, changes in background water quality, or for any other valid reason.

- b. The City shall test for the monitoring parameters and the Constituents of Concern (COC) listed below and in Monitoring and Reporting Program No. CI-4914 and revisions thereto:

Constituents

- 1) Chemical Oxygen Demand (COD)
- 2) Total Organic Halides (TOX)
- 3) Total Organic Carbon (TOC)
- 4) TDS
- 5) Chloride
- 6) Sulfate
- 7) Boron
- 8) Hydroxide Alkalinity (CaCO_3)
- 9) Total Hardness (as CaCO_3)
- 10) Volatile Organics
- 11) Electrical Conductivity
- 12) pH
- 13) Groundwater Elevation

- c. Concentration Limits - The concentration limit for each monitoring parameter and constituents of concern for each monitoring point shall be its background value as obtained during that reporting period.
- d. Points of Compliance and background monitoring points for detection monitoring shall be those listed below and in the attached Monitoring and Reporting Program No. CI-4914, and any revised Monitoring and Reporting Program approved by the Regional Board's Executive Officer. Monitoring and background monitoring points are shown on Figure 2 (attached):
 - i. Background Point: Monitoring Well BC-1
 - ii. Point of Compliance: Monitoring Wells BC-2, BC-3, BC-4
- e. Compliance period - The estimated duration of the compliance period for this Landfill is five years. Each time a release is discovered the Landfill restarts the compliance period on the date the Regional Board directs the City to begin an Evaluation Monitoring Program. If the City's Corrective Action Program (CAP) has not achieved compliance with the standard by the scheduled end of the Compliance Period, the Compliance period is automatically extended until the Landfill has been in continuous compliance for at least three consecutive years.

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5. The City shall comply with all conditions of this Order and any additional conditions prescribed by the Regional Board in addenda thereto. Noncompliance with this Order constitutes a violation of the CWC 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 WDRs.
6. The City shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this Order, including such accelerated or additional monitoring as may be necessary to determine the nature and impact of the noncompliance.
7. The City shall, at all times, properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the City to achieve compliance with conditions of this Order. Proper operation and maintenance includes effective performance, adequate laboratory and process controls including appropriate quality assurance procedures.
8. This Order may be modified, revoked and reissued, or terminated for cause including, but not limited to, the following:
 - a. Violation of any terms or conditions of this Order;
 - b. Obtaining this Order by misrepresentation or failure to disclose fully all relevant facts;
 - c. Alteration of the proposed alternative final cover system to meet performance standards of a prescriptive final cover design; or
 - d. A change in any condition that requires either a temporary, permanent reduction, or elimination of the authorized discharge.
9. This Order is not transferable to any person except after notice to the Executive Officer. The Regional Board may require modification or revocation and reissuance of this Order to change the name of the City and incorporate such other requirements as may be necessary under the CWC. The City shall submit notice of any proposed transfer of this Order's responsibility and coverage as described under Requirement I.C. of Monitoring and Reporting Program No. CI-4914.
10. This Order includes the attached "Standard Provisions Applicable to Waste Discharge Requirements", adopted on November 7, 1990 (Attachment 1) which are incorporated herein by reference. If there is any conflict between provisions

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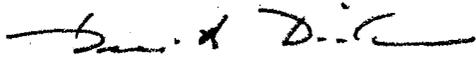
stated herein and the “Standard Provisions Applicable to Waste Discharge Requirements”, the provisions stated herein will prevail.

11. In accordance with CWC section 13263(g), these requirements shall not create a vested right to continue to discharge and are subject to rescission or modification. All discharges of waste into the waters of the State are privileges, not rights..
12. The City shall allow the Regional Board, or an authorized representative, upon the presentation of credentials and other documents as may be required by law to:
 - a. Enter upon the City’s premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this Order;
 - b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Order;
 - c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Order; and
 - d. Sample or monitor at reasonable times, for the purposes of assuring compliance with this Order or as otherwise authorized by the CWC, any substances or parameters at any location.
13. A copy of this Order shall be maintained at the local offices of the City and shall be available to operating personnel at all times.
14. The filing of a request by the City for the modification, revocation and reissuance, or termination of this Order or notification of planned changes or anticipated noncompliance does not stay any condition of this Order.
15. The provisions of this Order are severable, and if any provision of this Order, or the application of any provision of this Order to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this Order, shall not be affected thereby.
16. This Order becomes effective on the date of adoption by this Regional Board.
17. Regional Board Resolution No. 65-34, adopted on May 19, 1965, is hereby rescinded, except for enforcement purposes.

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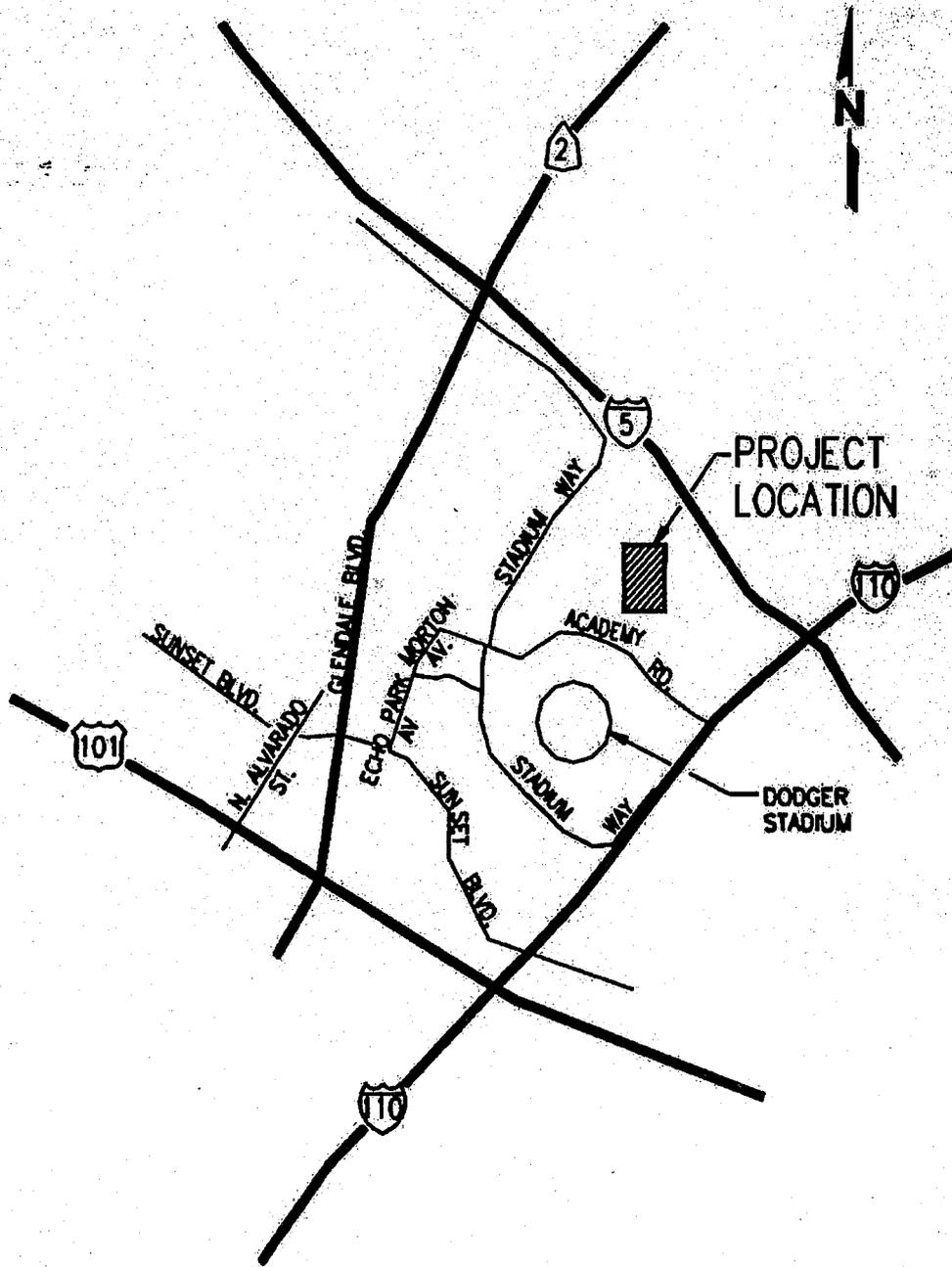
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I, Dennis A. Dickerson, Executive Officer, do certify that the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, Los Angeles Region, on July 11, 2002.

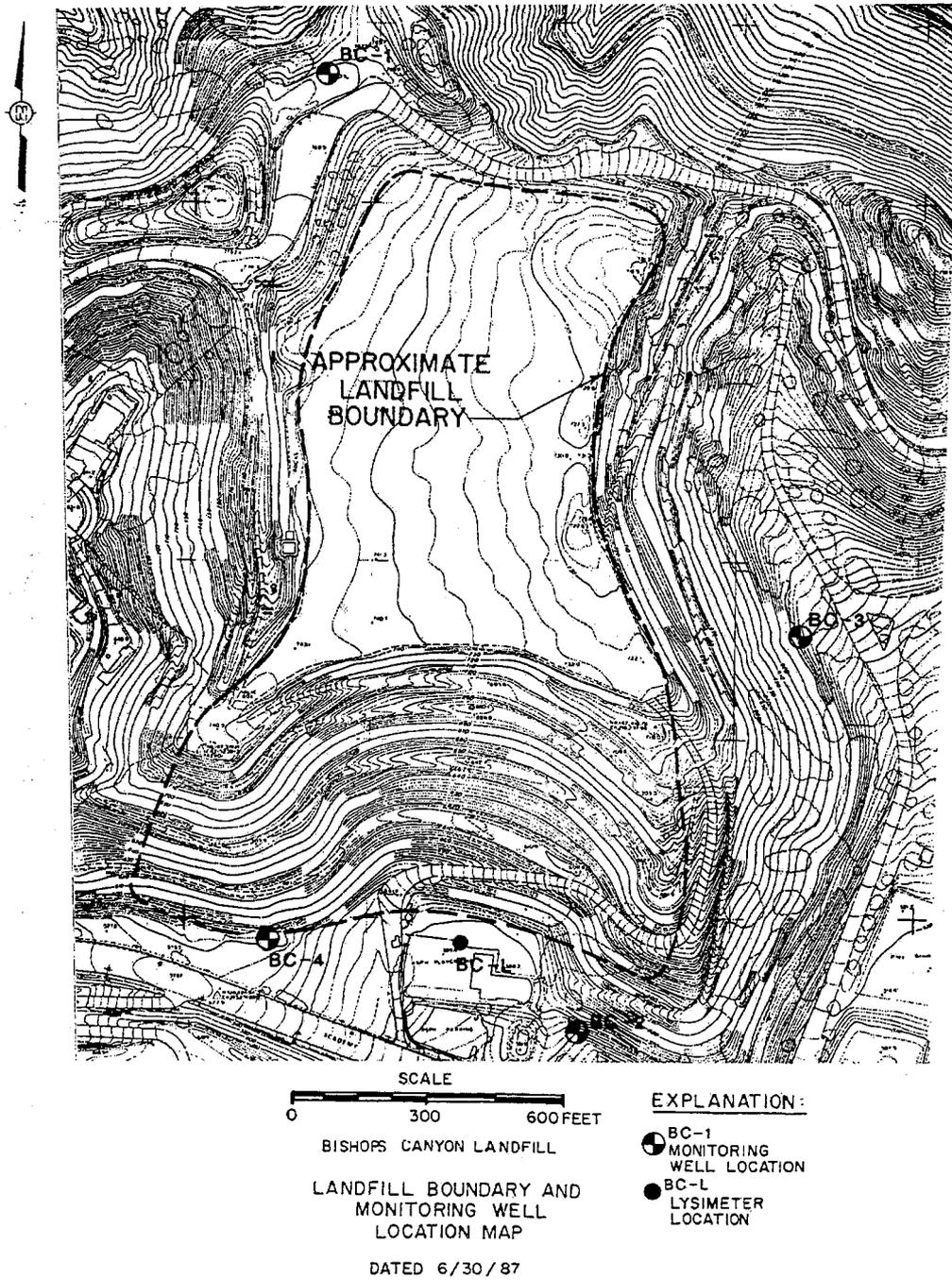


Dennis A. Dickerson
Executive Officer

FIGURE 1:
BISHOPS CANYON LANDFILL LOCATION MAP



**FIGURE 2:
BISHOPS CANYON LANDFILL MONITORING WELL AND LYSIMETER
LOCATIONS**



**STATE OF CALIFORNIA
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION**

**MONITORING AND REPORTING PROGRAM (CI-4914)
FOR
CITY OF LOS ANGELES
(Bishops Canyon Landfill)**

The City of Los Angeles (hereinafter "Discharger") shall implement this Monitoring and Reporting Program (MRP) beginning the first semiannual period immediately following adoption of Order No. R4-2002-0128. The first monitoring report is due by October 30, 2002.

I. Reporting Requirements

- A. The Discharger shall notify Regional Board staff at least 30 days prior to any maintenance activities, for approval by the Executive Officer, which could alter existing surface drainage patterns or change existing slope configurations. These activities may include, but not be limited to, significant grading activities, the importation of fill material, the design and installation of soil borings, groundwater monitoring wells and other devices for site investigation purposes.
- B. The Discharger shall furnish to the Executive Officer, within a reasonable time, any information which the Executive Officer may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this Order. The Discharger shall also furnish to the Executive Officer, upon request, copies of records required by this Order.
- C. The Discharger shall notify the Executive Officer, in writing, at least 30 days in advance of any proposed transfer of this Order's responsibility and coverage between the current owner and new owner for construction, operation, closure, or post-closure maintenance of the landfill. This agreement shall include an acknowledgement that the existing owner is liable for violations up to the transfer date and that the new owner is liable from the transfer date on. The agreement shall include an acknowledgement that the new owners shall accept responsibility for compliance with this Order that includes the post-closure maintenance of the Landfill.
- D. Where the Discharger becomes aware that it failed to submit any relevant facts in any report to the Regional Board, it shall submit such facts or information within seven days of discovery.
- E. The Discharger shall report any noncompliance to the Executive Officer within 24 hours from the time the Discharger becomes aware of the circumstances. A written submission shall also be provided within seven days of the time that the owner becomes aware of the circumstances. The written submission shall contain a description of the noncompliance

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and its cause; the period of noncompliance, including exact dates and times. If the noncompliance has not been corrected, then the submission shall include the anticipated time it is expected to continue, and steps taken or planned to reduce, eliminate, or prevent recurrence of the noncompliance. The Executive Officer, or an authorized representative, may waive the written report on a case-by-case basis if the oral report has been received within 24 hours.

- F. The Discharger shall notify the Executive Officer immediately of any slope failure occurring in a waste management unit. Any failure that threatens the integrity of the containment features or the waste management unit shall be promptly corrected after approval of the method and schedule by the Executive Officer.
- G. The Discharger shall report monitoring results at the intervals specified in Monitoring and Reporting Program No. CI-4914.
- H. The Discharger shall report (on a quarterly basis) the total volume of irrigation water used at the site each month.
- I. All applications, reports, or information submitted to the Executive Officer shall be signed and certified as follows:
 - 1. The applications, reports, or information shall be signed as follows:
 - a. For a corporation - by a principal executive officer of at least the level of vice-president.
 - b. For a partnership or sole proprietorship - by a general partner or the proprietor, respectively.
 - c. For a municipality, state, federal or other public agency - by either a principal executive officer or duly authorized representative.
 - d. For a military installation - by the base commander or the person with overall responsibility for environmental matters in that branch of the military.
 - 2. All other reports required by this Order and other information required by the Executive Officer shall be signed by a person designated in paragraph [1.] of this provision, or by a duly authorized representative of that person. An individual is a duly authorized representative only if:
 - a. The authorization is made in writing by a person described in paragraph [1.] of this provision;

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- b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity; and
 - c. The written authorization is submitted to the Executive Officer.
3. Any person signing a document under this Section shall make the following certification:

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

- J. The Discharger shall submit reports required under this Order and other information requested by the Executive Officer, to:

California Regional Water Quality Control Board
Los Angeles Region
320 W. 4th Street, Suite 200
Los Angeles, California 90013
ATTN: Information Technology Unit

II. MONITORING PROVISIONS

- A. All analyses shall be performed in a laboratory certified to perform such analyses by the California Department of Health Services or a laboratory approved by the Executive Officer. Specific methods of analysis must be identified. If methods other than U. S. EPA approved methods or standard methods are used, the exact methodology must be submitted for review and must be approved by the Executive Officer prior to use. The director or lab supervisor of the laboratory whose name appears on the certification shall supervise all analytical work in their laboratory and shall sign all reports of such work submitted to the Regional Board.
- B. If the Discharger monitors any pollutants more frequently than required by Order No. R4-2002-0128, using the most recent version of Standard U. S. EPA Methods, or as specified in Order No. R4-2002-0128, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the discharger's monitoring report. The increased frequency of monitoring shall also be reported.

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- C. The Discharger shall report all instances of noncompliance not reported under Reporting Requirement I.E. of this Monitoring and Reporting Program at the time monitoring reports are submitted. The reports shall contain the information listed in Reporting Requirement I.E.
- D. Sample collection, storage, and analysis shall be performed according to the most recent version of Standard U. S. EPA Methods, and in accordance with an approved sampling and analysis plan.
- E. All monitoring instruments and equipment, which are used by the Discharger to fulfill the prescribed monitoring program, shall be properly calibrated and maintained as necessary to ensure their continued accuracy.
- F. The Discharger shall retain records of all monitoring information, including all calibration and maintenance records and copies of all reports required by Order No. R4-2002-0128. Records shall be maintained for a minimum of five years from the date of the sample, measurement, report or application. This period may be extended during the course of any unresolved litigation regarding this discharge or when requested by the Executive Officer.
- G. Records of monitoring information shall include:
 - 1. The date, identity of sample, monitoring point from which it was taken, and time of sampling or measurement;
 - 2. The individual(s) who performed the sampling or measurements;
 - 3. Date and time that analyses were started and completed, and the name of the personnel performing each analysis;
 - 4. The analytical techniques or method used, including method of preserving the sample and the identity and volumes of reagents used;
 - 5. Calculation of results;
 - 6. Results of analyses, and the method detection limit (MDL) for each parameter, and
 - 7. Laboratory quality assurance results (e.g. percent recovery, response factor).

III. SITE POST-CLOSURE MAINTENANCE

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- A. The Discharger shall perform inspections of the Landfill at the frequencies specified in the approved Final Closure and Post-Closure Maintenance Plan (FCPCMP) referenced in Finding 10 of Order No. R4-2002-0128 and report the results semi-annually. The report shall contain information on the site's condition and a discussion of any significant findings with regard to:
1. General site condition;
 2. Surface cover and slope;
 3. Drainage facilities;
 4. Groundwater and vadose zone monitoring networks;
 5. Methane gas control system;
 6. Observation of seepage from the site; and
 7. Maintenance activities at the site.
- B. If a measurably significant evidence of a release from the waste management unit is determined, the discharger shall comply with all applicable requirements of title 27, California Code of Regulations (27 CCR), division 2, subdivision 1, chapter 3, subchapter 5, article 2 (Closure and Post-Closure Maintenance Standards for Disposal Sites and Landfills).

IV. GROUNDWATER MONITORING PROGRAM

- A. The Discharger shall establish and maintain groundwater wells at the landfill site to be used as part of the groundwater quality monitoring program to reflect any changes to the detection monitoring program or caused by an evaluation monitoring program or a corrective action program pursuant to section 20385 of 27 CCR.
- B. If a measurably significant evidence of a release from the waste management unit is determined, the discharger shall conduct required monitoring and response programs in accordance with section 20385 of 27 CCR.
- C. Prior to pumping monitoring wells for sampling, the static water level shall be measured in each well.
- D. The Discharger shall submit a compliance evaluation summary of the groundwater data obtained. The summary shall contain a table that includes the following information:
1. Monitoring parameters;

2. Detection limit of monitoring equipment;
3. Measured concentrations found in the current sampling event.

E For each monitored groundwater body, the discharger shall measure the water level in each well and determine groundwater flow rate and direction at least semi-annually, including the times of expected highest and lowest elevations of the water level for the respective groundwater body. Groundwater elevations for all background and downgradient wells for a given groundwater body shall be measured within a period of time short enough to avoid temporal variations in groundwater flow which could preclude accurate determination of groundwater flow rate and direction.

V. REPORTS TO BE FILED WITH THE BOARD

A. All required groundwater monitoring reports shall be submitted no later than one month following the end of their respective reporting period. The reports shall be comprised of at least the following in addition to the specific contents listed for each respective report type:

1. Transmittal Letter

A letter summarizing the essential points shall be submitted with each report. The transmittal letter shall include:

- i. A discussion of any requirement violations found since the last such report was submitted and shall describe actions taken or planned for correcting the violations. If the Discharger has previously submitted a detailed time schedule for correcting said requirement violations, a reference to the correspondence transmitting such schedule will be satisfactory. If no violations have occurred since the last submittal, this shall be stated in the transmittal letter; and
- ii. A statement certifying that, under penalty of perjury, that to the best of the signer's knowledge the report is true, complete, and correct. This statement shall be signed by an individual that meets the requirements contained in Reporting Requirement I.I. of this monitoring and reporting program.

2. Semi-Annual Report

The semi-annual report shall contain, but not be limited to the following:

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- i. Site maintenance outlined in section III.A. of this monitoring and reporting program.
- ii. Groundwater analysis and flow rate outlined in section IV.E. of this monitoring and reporting program.
- iii. A map (or copy of an aerial photograph) showing the locations of observation stations, monitoring points, and background monitoring points.

3. Annual Summary Report

The Discharger shall submit an annual report containing the following information to the Regional Board covering the previous monitoring year. The annual reporting period ends March 31.

- i. For each monitoring point, submit in graphical format the laboratory analytical data for all samples taken within at least the previous five calendar years. Each graph shall plot the concentration of the constituent over time for a given monitoring point, at a scale appropriate to show trends or variations in water quality.
- ii. A comprehensive discussion of the compliance record and results of any corrective actions taken or planned which may be needed to bring the Discharger into full compliance with the waste discharge requirements.
- iii. A written summary of the monitoring results and monitoring system(s), indicating any changes made or observed since the previous annual report.
- iv. A topographic map at appropriate scale, showing the direction of groundwater flow at the landfill site.

VI. REPORTING SCHEDULE

- A. Required monitoring reports shall be submitted to the Regional Board in accordance with the following schedule:

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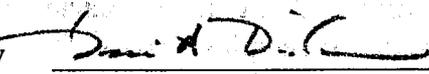
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<u>Report Frequency</u>	<u>Report Period</u>	<u>Report Due</u>
Semiannually	April – September October – March	October 30 April 30
Annually	April – March	April 30

B. Monitoring reports shall be submitted to:

California Regional Water Quality Control Board
Los Angeles Region
320 W. 4th Street, Suite 200
Los Angeles, California 90013
ATTN: Information Technology Unit

Ordered by



Dennis A. Dickerson
Executive Officer
July 11, 2002