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

ORDER NOS. 00-079 AND 00-080

REVISED WASTE DISCHARGE REQUIREMENTS

**VENTURA REGIONAL SANITATION DISTRICT
(COASTAL AND SANTA CLARA LANDFILLS)
(FILE NOS. 80-004 and 68-035)**

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

1. The Ventura Regional Sanitation District (VRSD) owns and operated the Coastal Landfill for the disposal of nonhazardous and inert solid wastes at a site located at Victoria and Gonzales Roads, in the City of Oxnard, California (Figure 1), under Order No. 80-64, adopted by this Regional Board, as revised by Order No. 88-27 (February 22, 1988) as well as by Super Order 93-062 (September 27, 1993).
2. VRSD operated the Santa Clara Landfill (owned by the City of Oxnard) for the disposal of nonhazardous and inert solid wastes at a site located at 2501 North Ventura Road, in the City of Oxnard, California (Figure 2), under Order No. 79-075, adopted by this Regional Board, as revised by Order Nos. 82-053 (August 9, 1982) and 83-005 (January 24, 1983) as well as by Super Order 93-062 (September 27, 1993).
3. The California Water Code, Section 13263, provides that all waste discharge requirements (WDRs) shall be reviewed periodically and, upon such review, may be revised by the Regional Board.
4. The WDRs are being revised to include updated findings and a revised monitoring and reporting program.
5. The Coastal and Santa Clara Landfills are adjacent to one another, share a common border, are both closed sites that were operated by VRSD. Moreover, as part of a landfill expansion in 1989, a valley between the Santa Clara Landfill and Coastal Landfill was filled with refuse, transforming both landfills into one physical unit. Because of these and other similarities, and because VRSD provides groundwater monitoring services to the City of Oxnard for the Santa Clara Landfill, for the purposes of this Order, the two sites shall be monitored and regulated as one Waste Management Unit. This Regional Board may modify the monitoring and reports conditions contained in these WDRs if there is a change in the relationship between the City of Oxnard and VRSD regarding the monitoring conducted at the Santa Clara Landfill.

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6. The lease areas for the Coastal and Santa Clara Landfills are approximately 83 acres and 165 acres, respectively. The sites are bounded on the north by the Santa Clara River, on the west by Victoria Avenue, on the south by Vineyard Avenue and residences, and on the east by North Ventura Road and residences.
7. Most of the Santa Clara Landfill currently consists of a municipal golf course called the River Ridge Golf Club. The City of Oxnard is the owner of the River Ridge Golf Club.
8. There are no known active faults within the area of the Coastal and Santa Clara Landfills. Active faults are defined as Holocene Epoch faults that have exhibited surface movement in the last 11,000 years. The Oak Ridge fault, located approximately two miles north of the sites, and the McGrath fault, located approximately 1 mile north of the sites, are believed to have been active during the late Quaternary Period (about 3 million years ago). There is no evidence of more recent activity.
9. The Coastal and Santa Clara Landfills are located on the southerly side of the Santa Clara River, within the Santa Clara River Flood Plain. Levees were constructed to the north of the sites and were designed to accommodate a 100-year frequency rainfall event. Modifications to these levees may be necessary due to ongoing vegetative changes and their impact on the flow of the Santa Clara River.
10. The Coastal and Santa Clara Landfills overlie the Oxnard Plain Subarea of the Santa Clara River Watershed. The uppermost "semi-perched" aquifer is known to have historically poor water quality due to agricultural practices in the Forebay area, and from leachate contamination in the vicinity of the landfills.
11. The area of the Coastal and Santa Clara Landfills is underlain by water-bearing sediments, including undifferentiated alluvium, alluvial flood plain deposits, the San Pedro Formation, and a portion of the Santa Barbara Formation. These water-bearing deposits, 1,000 to 1,300 feet thick, contain aquifers consisting of lenses and layers of sand and gravel, interbedded with fine-grained and relatively impermeable silty or clayey aquitards of variable thicknesses. Underlying these rocks are nonwater-bearing deposits, consisting of unconsolidated or cemented sedimentary rocks.
12. A Solid Waste Assessment Test (SWAT) analysis for the Coastal Landfill was completed in 1988 and was approved by the Executive Officer. Groundwater monitoring at the site has been conducted since 1986, using the groundwater monitoring system established by VRSD in 1986 to comply with California Code of Regulations (CCR), Title 23, Chapter 15 requirements. The current groundwater monitoring system consists of 22 monitoring wells

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that include upgradient, sidegradient, and downgradient wells for both the uppermost semi-perched aquifer and downgradient wells for the Oxnard aquifer. Results from the SWAT investigation indicated the presence of organic compounds and changes in inorganic chemistry of groundwater within the semi-perched aquifer at the downgradient monitoring wells associated with the Coastal Landfill. Results from the SWAT investigation indicated no groundwater quality impacts to the Oxnard Aquifer.

13. A SWAT analysis for the Santa Clara Landfill was completed in 1988 and was approved by the Executive Officer on July 11, 1988. Groundwater monitoring at the site has been conducted since 1985, using the groundwater monitoring system established by VRSD in 1984 to comply with Order No. 83-005 issued by this Regional Board. The current groundwater monitoring system consists of 7 monitoring wells that include upgradient, sidegradient, and downgradient wells for the uppermost semi-perched aquifer and an upgradient well for the Oxnard aquifer. Results from the SWAT investigation indicated the presence of organic compounds and changes in inorganic chemistry of groundwater within the semi-perched aquifer at the downgradient monitoring wells associated with the Santa Clara Landfill. Results from the SWAT investigation indicated no groundwater quality impacts to the Oxnard Aquifer.
14. Landfill gas monitoring probes are located along the site boundaries of the Coastal and Santa Clara Landfills. These probes are currently monitored on a monthly basis. The City of Oxnard and VRSD have an agreement with Ogden Power Pacific Inc. to commercially recover gas from the Coastal and Santa Clara Landfills.
15. Pursuant to Section 402(p) of the Clean Water Act and 40 CFR Parts 122, 123 and 124, the State Water Resources Control Board (State Board) adopted a general NPDES permit to regulate stormwater discharges associated with industrial activities (State Board Order 97-03-DWQ). Stormwater discharge from Coastal Landfill is currently regulated under NPDES permit WDID No. 4A560306004. Stormwater discharge from Santa Clara Landfill is currently regulated under NPDES permit WDID No. 4A560306005.
16. Closure certification for the Santa Clara Landfill was conditionally approved by the California Integrated Management Board on March 19, 1985. Requirements for Closure were issued by this Regional Board under Order 83-005, which governed the site closure and subsequent monitoring requirements. In 1983, VRSD closed the Santa Clara Landfill and prepared it for construction of the River Ridge Golf Club. A soil cover approximately 3 feet thick was placed on the surface of the site, except for the tee boxes and putting greens. The tee boxes and putting greens were underlain with either a synthetic liner or a 1-foot thick layer of compacted soil mixed with clay or bentonite and covered with 3 to 5 feet of soil. Accordingly, the site is undergoing postclosure maintenance as described in the Santa

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Clara Sanitary Landfill Closure Plan and Report (June 1982) and the Santa Clara Landfill Closure Report (January 10, 1983), which are referenced in Order 83-005. Aspects of post-closure maintenance are also addressed in the Santa Clara Landfill Closure Quality Control Plan (April 28, 1983) prepared by VRSD.

17. The westernmost section of the Santa Clara Landfill was reactivated in mid-1988 as part of the expansion of the adjacent Coastal Landfill. The valley that existed between the two sites was filled with refuse (completed in January 1989). The valley fill area was closed as part of the Coastal Landfill.
18. Closure certification for the Coastal Landfill was approved by the California Integrated Management Board on November 9, 1995. A three layer final cover system was constructed at the site consisting of a 2-foot foundation layer of sand, a one-foot low permeability layer of fine-grained material with a hydraulic conductivity of 1×10^{-6} cm/sec or less, and a one-foot to six-foot thick vegetative layer of soil. The site is undergoing postclosure maintenance as described in the Postclosure Maintenance Plan prepared for the site, dated October 1991, prepared by VRSD.
19. The Regional Board adopted a revised Water Quality Control Plan for the Los Angeles Region on June 13, 1994. The Plan contains beneficial uses and water quality objectives for groundwater in the Santa Clara River Watershed. Beneficial uses of the groundwater in the Santa Clara River Watershed are municipal and domestic supply, industrial service supply, industrial process supply, and agricultural supply. The requirements in this Order, as they are met, will be in conformance with the goals of the Water Quality Control Plan.
20. The revision of these waste discharge requirements constitutes an ongoing project as defined in Section 15621, Chapter 3, Title 14, California Administrative Code, and is therefore exempt from the provisions of the California Environmental Quality Act (Public Resource Code, Section 21100 et seq.).

This Regional Board has notified the City of Oxnard, VRSD and interested agencies and persons of its intent to adopt waste discharge requirements for this discharge, and has provided them with an opportunity to submit their written views and recommendations.

This Regional Board, in a public meeting, heard and considered all comments pertaining to the discharge and to the tentative requirements.

IT IS HEREBY ORDERED, that the Ventura Regional Sanitation District shall comply with the following at the Coastal and Santa Clara Landfills:

A. Water Quality Protection Standards

In accordance with Title 27 CCR, Section 20390, the following water quality protection standards (WQPS) for the uppermost semi-perched and Oxnard aquifer are established for the Coastal and Santa Clara Landfills:

<u>Parameter</u>	<u>Units</u>	<u>Maximum Value</u>
Total dissolved solids (TDS)	mg/l	2,600.
Sulfate	mg/l	1,500.
Chloride	mg/l	350.
Boron	mg/l	1.8
Total organic halogens (TOX)	mg/l	0.5
Benzene	µg/l	0.7
Carbon tetrachloride	µg/l	0.5
Tetrachloroethylene (PCE)	µg/l	0.4
Trichloroethylene (TCE)	µg/l	5.0
Vinyl chloride	µg/l	2.0

Point of Compliance

The point of compliance, where the WQPS shall apply, is a vertical surface located at the hydraulically downgradient limit of the Coastal Landfill waste management unit that extends through the semi-perched aquifer and the Oxnard aquifer underlying the waste management unit.

Compliance Period

The compliance period for which the water quality protection standards are applicable shall be the entire postclosure maintenance period of the combined waste management unit.

Monitoring Points

Monitored Medium	Background Monitoring Points	Downgradient Monitoring Points
Surface Water	Covered under NPDES (stormwater)	Covered under NPDES (stormwater)

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"Semi-perched" Aquifer Groundwater	SC-5 SC-6	2N/22W-29D1, D2, D3 2N/22W-29E6, E7, E8, E9 2N/22W-29M2, M3, M4
Oxnard Aquifer Groundwater	2N/22W-28C6	2N/22W-29D9 2N/22W-29E9

Constituents of Concern

The Constituents of Concern for the Coastal and Santa Clara Landfills ("COC list") shall include all constituents mandated under State Water Resources Control Board (SWRCB) Resolution No. 93-62. Because the Coastal and Santa Clara Landfills are unlined landfills, the Constituents of Concern shall include all constituents listed in these WDRs in addition to all constituents listed in Appendix II to 40 CFR Part 258 (Appendix II constituent). VRSD shall monitor all COCs every five years.

In the absence of a release being indicated, VRSD shall monitor all constituents of concern and submit a COC report as follows:

- a. VRSD shall sample all Monitoring Points and Background Monitoring Points for the semi-perched aquifer and the Oxnard aquifer for all COCs every fifth year (alternating between the Fall and Spring reporting periods). The COC monitoring report may be combined with any Monitoring Parameter Report or Annual Summary Report having a reporting period that ends at the same time.
- b. VRSD shall monitor for all COCs provided that such monitoring need only encompass those COCs that do not also serve as Monitoring Parameters.

For each Appendix II constituent that is newly added to the Coastal and Santa Clara Landfills' COC list, VRSD shall establish a reference background value by analyzing at least one sample each sampling period from each Background Monitoring Point for a period of at least one year. Once this reference set of background data is collected, the discharger shall include it as a separate, identified item in the next monitoring report submittal.

Concentration Limits

The concentration limit for any given COC or Monitoring Parameter in the semi-perched aquifer or the Oxnard Aquifer at the Coastal and Santa Clara Landfills shall be as follows,

and shall be used as the basis for comparison with data from the Monitoring Points in that monitored medium.

- a. Concurrent Background – The constituent’s background value shall be established anew during each Reporting Period using only data from all samples collected during that Reporting Period from the Background Monitoring Points for the semi-perched aquifer and the Oxnard Aquifer at the Coastal and Santa Clara Landfills using either:
 1. The mean (or median, as appropriate) and standard deviation (or other measure of central tendency, as appropriate) of the constituent’s background data; or
 2. The constituent’s Method Detection Limit (MDL), in cases where less than 10% of the background samples exceed the constituent’s MDL; or
- b. Concentration Limit Greater Than Background (CLGB) Option for Corrective Action – A concentration limit greater than background, as approved by this Regional Board for use during-or-after corrective action.

The WQPS may be modified by the Regional Board based on more recent or complete groundwater monitoring data, changes in background water quality, or for any other valid reason.

B. Provisions for Water Quality Monitoring

1. VRSD shall furnish, under penalty of perjury, technical or monitoring program reports in accordance with Section 13267 of the California Water Code. Failure or refusal to furnish these reports or falsifying any information provided therein, renders VRSD guilty of a misdemeanor and subject to the penalties stated in Section 13268 of the California Water Code. Monitoring reports shall be submitted in accordance with the specifications contained in the attached Monitoring and Reporting Program, as directed by the Executive Officer. The attached Monitoring and Reporting is subject to periodic revisions as warranted, and approved by the Executive Officer.
2. For the purposes of groundwater monitoring associated with this Order, the terms “Monitoring Well”, “Extraction Well”, “Production Well”, and “Piezometer” are synonymous.

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3. By September 29, 2000, VRSD shall submit a technical report, to be approved by the Executive Officer, to upgrade the current groundwater monitoring systems for the Coastal and Santa Clara Landfills to ensure that the system can detect the water quality impact if pollutants are released from the landfills to groundwater. The report should detail the effectiveness of all monitoring wells, monitoring devices, and leachate and gas collection systems to be maintained during the postclosure maintenance period. VRSD may request a reduction in the number of monitoring wells or the reduction of monitoring in well cluster monitoring if water quality monitoring results indicates that there is redundancy in the monitoring well system. If during the postclosure maintenance period any of the monitoring wells and/or monitoring devices are damaged, destroyed, or abandoned for any reason, VRSD shall provide substitutes acceptable to the Executive Officer to meet the monitoring requirements of the Order. VRSD shall maintain all monitoring wells and/or piezometers in accordance with a "Groundwater Monitoring Well Preventative Maintenance Plan" to be included as part of the technical report. If a well or piezometer is found to be inoperative, the Regional Board and other interested agencies shall be so informed in writing within seven days after such discovery, and this information shall contain a time schedule for returning the well or piezometer to operating order.
4. By September 29, 2000, VRSD shall submit a technical report, to be approved by the Executive Officer, to explain the lack of vadose monitoring at the Coastal and Santa Clara Landfills. In lieu of this technical report, VRSD shall submit a work plan for implementing vadose monitoring at the site.
5. By September 29, 2000, VRSD shall submit a technical report, to be approved by the Executive Officer, that identifies any monitoring wells, extraction/production wells, or monitoring devices that penetrate the refuse fill at the Coastal and Santa Clara Landfills and extend to groundwaters of the semi-perched aquifer or the Oxnard aquifer. This technical report must explain the value of these wells or devices for the purposes of water quality monitoring and/or postclosure maintenance operations. VRSD shall decommission any well or monitoring device that are not deemed valuable by this Regional Board for the purposes of water quality monitoring and/or postclosure 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).
6. For any monitoring wells or piezometers installed in the future, VRSD shall submit technical reports for approval by the Executive Officer prior to installation. These technical reports shall be submitted at least 60 days prior to the anticipated date of installation of the wells or piezometers. These reports shall be accompanied by:
 - a. Maps and cross sections showing the locations of the monitoring points, and

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- b. Drawings and data showing construction details of the monitoring points. These shall include:
- (i) casing and test hole diameter;
 - (ii) casing materials;
 - (iii) depth of each hole;
 - (iv) the means by which the size and position of perforations shall be determined, or verified, in the field;
 - (v) method of joining sections of casing;
 - (vi) nature of filter pack material;
 - (vii) depth and composition of seals; and
 - (viii) method and length of time of well development.

If a well or piezometer is proposed to replace an inoperative well or piezometer, VRSD shall not delay replacement while waiting for Executive Officer approval. However, the technical report shall be submitted within the required time schedule.

7. VRSD shall use the statistical procedures contained in Title 27 CCR, Section 20415(e)(7), to determine if there is a statistically significant increase for any background indicator parameter. Upon approval of the Executive Officer, alternative statistical procedures may be used.
8. VRSD shall conduct required monitoring and response programs in accordance with Section 20385 of Title 27 CCR. (A detection monitoring program per Section 20420 of Title 27, an evaluation monitoring program per Section 20425 of Title 27, and a corrective action program per Section 20430 of Title 27).
9. For each monitoring point described in this Order, VRSD 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 Provision A of this Order, shall be used for the following monitoring parameters.

<u>Groundwater Monitoring Parameters</u>	<u>Test Method</u>
Chemical Oxygen Demand	EPA 410.4
Total Dissolved Solids (TDS)	EPA 160.1
Total Organic Halogens (TOX)	EPA 9020
Total Organic Carbon (TOC)	EPA 415.1
Flouride	EPA 340.2
Chloride	EPA 300.0

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Sulfate	EPA 300.0
Boron	EPA 6010
Iron	EPA 6010
Manganese	EPA 6010
pH	Field
Hydroxide Alkalinity (CaCO ₃)	Std. M2320B
Total Hardness (as CaCO ₃)	Std. M2340
Electrical Conductivity	Field
Benzene	EPA 8260
Carbon Tetrachloride	EPA 8260
Trichloroethylene	EPA 8260
Perchloroethylene	EPA 8260
Vinyl Chloride	EPA 8260

10. Once each year, during the Winter/Spring monitoring period, all wells shall be sampled and these samples analyzed for Volatiles (EPA 8260), Semi-volatiles (EPA 3510/8270), Pesticides and PCB's (EPA 3510/8280). All peaks greater than 10% of the internal standard shall be identified and quantified for gas chromatography analyses. The following heavy metals shall also be determined: Aluminum (EPA 6010), Antimony (EPA 6010), Arsenic (EPA 7060), Barium (EPA 6010), Beryllium (EPA 6010), Cadmium (EPA 6010), Calcium (EPA 6010), Chromium (EPA 6010), Cobalt (EPA 6010), Copper (EPA 6010), Hexavalent chromium (Std. M3500 CrO), Lead (EPA 6010), Magnesium (EPA 6010), Mercury (EPA 7470), Molybdenum (EPA 6010), Nickel (EPA 6010), Potassium (EPA 6010), Selenium (EPA 7740), Silver (EPA 6010), Sodium (EPA 6010), Strontium (EPA 6010), Thallium (EPA 6010), Tin (EPA 6010), Vanadium (EPA 6010), and Zinc (EPA 6010). In addition, Biological Oxygen Demand (EPA 405.1), Bicarbonate (Std. M2320B), 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), Sulfate (EPA 300.0), Sulfides (EPA 376.2), Total cyanide (EPA 335.2), Total phenols (EPA 420.1), and Turbidity (NTU; EPA 180.1) shall also be determined.
11. VRSD shall provide for the proper handling and disposal of water purged from the monitoring wells during sampling. Water purged from the wells shall not be returned to that well (or any other well). Water purged from the wells may be used for onsite dust control/irrigation provided that it meets the reuse requirements specified in this Order.

C. Provisions for Onsite Use of Water

1. Any water used for landscape irrigation, dust control or other non-emergency uses, shall be subject to waste discharge requirements, except for potable water uses and any other water allowed by this Order.
2. No water shall be routinely applied to the waste management unit except for landscape irrigation water. Water used for these purposes shall only be applied by spraying, and in quantities not to exceed that necessary to support plant life.
3. By September 29, 2000, the City of Oxnard and/or VRSD shall submit a technical report to describe the landscape irrigation practices associated with the Coastal Landfill and the River Ridge Golf Club and to evaluate the potential flux of landscape irrigation through the final cover into the refuse at both sites. The City of Oxnard and/or VRSD shall complete an evaluation of the impact of irrigation on saturated and unsaturated moisture movement in the final covers to document that the applied irrigation does not flux into the refuse mass.
4. The spray disposal of any wastewater shall not be permitted at these sites without waste discharge requirements.
5. All uses of water shall be within the boundaries of the landfill properties. During an emergency, this water may be used for fire fighting on the site or on undeveloped areas off and adjacent to the site.
6. During periods of precipitation, when the use of extracted wastewater is not necessary for the purpose specified in this Order, the wastewater shall be stored or hauled to a legal point of disposal.
7. Washing of landfill equipment or vehicles shall be confined to areas where the waste water will not percolate into the disposal areas or native soil, or enter the storm water collection system, unless specifically permitted by waste discharge requirements.
8. Water purged from the wells intended to be used onsite for irrigation shall at all times be within the range of 6.0 to 9.0 pH units, and shall not exceed the following limits:

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Constituent	Unit	Maximum Limit
COD	mg/l	240
Oil and Grease	mg/l	15
Coliform	MPN/100 ml	23
BNA ¹	mg/l	0.1
Total Heavy Metals ²	mg/l	1.5
Purgeable Organics ³	mg/l	45.0

¹ BNA shall include the summation of concentrations of all base/neutral and acid extractable organic priority pollutant compounds.

² Total heavy metals shall include the combined concentrations of the following metals: arsenic, cadmium, copper, lead, mercury, nickel, selenium, silver, and zinc.

³ Purgeable organic compounds shall include the summation of concentrations including purgeable priority pollutants, acetone, and 2-butane. No individual parameters may exceed 20 percent of the Maximum Limit.

9. Any water used onsite shall not exceed the maximum contaminant levels contained in Title 22 CCR, Chapter 15, Article 4, Section 64435 (or subsequent revisions), for heavy metals, nitrated and organic chemicals, and in Section 64473 for copper and zinc. Radioactivity shall not exceed the limits specified in Sections 64441 and 64443 of Title 22 (or subsequent revisions).
10. The existing gas monitoring system and any proposed gas collection system and/or expansion of the systems of this waste management unit shall be designed so that gas condensate is not returned to the waste management unit.

D. Provisions for Postclosure Maintenance Monitoring Activities

1. As the Owner, VRSD is responsible for postclosure maintenance of the Coastal Landfill portion of the combined sites regulated by these WDRs.
2. As the Owner, the City of Oxnard is responsible for postclosure maintenance of the Santa Clara Landfill portion of the combined sites regulated by these WDRs.
3. This Regional Board considers the property owner(s) to have a continuing responsibility for correcting any problems which may arise in the future as a result of waste discharge at the site, and from gases and leachate that may be caused by infiltration or precipitation of drainage waters into the waste disposal units, or by infiltration of water applied to this property during subsequent use of the land or other purposes.

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4. The respective owners of the Coastal and Santa Clara Landfills shall furnish routine monitoring, inspection and maintenance reports generated throughout the postclosure maintenance period for the two site for the following environmental control systems:
 - a. Final Cover
 - b. Drainage Controls
 - c. Vegetative Cover
 - d. Gas Condensate/Leachate Monitoring
 - e. Groundwater Monitoring
 - f. Final Grading
5. By September 29, 2000, the City of Oxnard shall submit a technical report for the Santa Clara Landfill, to be approved by the Executive Officer, discussing current operation and maintenance activities at the River Ridge Golf Club in compliance with postclosure maintenance activities contained in the Santa Clara Sanitary Landfill Closure Plan and Report (June 1982), the Santa Clara Landfill Closure Report (January 10, 1983), and the Santa Clara Landfill Closure Quality Control Plan (April 28, 1983). The report shall discuss water management practices employed at the River Ridge Golf Club to minimize the infiltration of irrigation water into the underlying refuse.
6. During the postclosure maintenance period, the respective owners of each site shall inspect the final cover quarterly and after a major rainstorm and consist of a driving and walking visual inspection of all landfill surfaces to locate signs of erosion, settlement, and/or subsidence. For the Coastal Landfill, the inspections shall verify that the low permeability layer has not been exposed through local cracking or erosion of the vegetative layer. The results of these inspections shall to be furnished to this Regional Board within 15 days of an inspection. Areas of concern identified during final cover inspections shall be noted and shown on a map.
7. During the postclosure maintenance period, the respective owners of each site shall inspect the drainage system , after the first rainfall of the rainy season, and after a major rainstorm. Culverts, overside drains, pipes and ditch flowlines shall be inspected for accumulating debris, obstructions, and breaks. Any areas of concern shall be noted and shown on a map. An annual status report shall be prepared by the respective owners describing the condition of the drainage systems for the Coastal and Santa Clara Landfills and shall be submitted to this Regional Board.
8. During the postclosure maintenance period, the respective owners of each site shall inspect the vegetative cover quarterly and after a major rainstorm (concurrent with final cover inspections) for evidence of vegetative stress. For the Coastal Landfill portion of the site,

adequate root zone moisture shall be monitored monthly by testing at a minimum of one location on each side slope and top surface of the fill areas with a portable moisture sensing device. Should the threshold soil tension at which vegetation can be sustained (100 centibars) be exceeded, additional sensing shall proceed outward from an identified dry location until the limits of a remedial area can be defined. For the Santa Clara Landfill, the existing irrometers shall be operated to monitor subsurface soil moisture and control the irrigation system in greens areas. Areas of concern resulting from vegetative cover inspections and soil moisture monitoring shall be noted and shown on a map submitted to this Regional Board within 15 days of an inspection.

9. During the postclosure maintenance period, the respective owners of each site shall inspect the final grading quarterly and after a major rainstorm (concurrent with final cover inspections) and consists of visual inspection for cracks, eroded areas, and/or localized depressions. Areas of concern resulting from final grading inspections shall be noted and shown on a map submitted to this Regional Board within 15 days on an inspection. At least every five years after closure of the landfill, the respective owners shall produce and submit to the RWQCB an iso-settlement map accurately depicting the estimated total change in elevation of each portion of the final cover. Therefore, for each portion of the landfills, this map shall show the total lowering of the surface elevation of the final cover, relative to the baseline topographic map, and shall indicate all areas where visually noticeable differential settlement may have been obscured by grading operations. The map shall be drawn to a scale of 1 inch equals 200 feet and a 2-foot contour interval showing the current topography of the final cover and featuring overprinted isopleths indicating the total settlement to-date.

E. Provisions for Reporting Scheduled Activities

1. The City of Oxnard and/or VRSD shall furnish, within a reasonable time, any information the Regional Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this Order. The City of Oxnard and/or VRSD shall also furnish to the Regional Board, upon request, copies of records required to be kept by this Order.
2. The City of Oxnard and/or VRSD shall notify the Regional Board of any material change in the types, quantities, or concentrations of wastes discharged, or site operations and features. The City of Oxnard and/or VRSD shall notify the Regional Board before any material change is made in accordance with Section 21710 of Title 27 CCR.
3. The City of Oxnard and/or VRSD shall notify the Regional Board in writing of any proposed change of ownership or responsibility for postclosure maintenance of these waste management facilities. This notification shall be given prior to the effective date of the

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change and shall include a statement by the new owner that postclosure maintenance shall be in compliance with any existing waste discharge requirements and any revisions.

4. The Regional Board shall be notified by the City of Oxnard and/or VRSD of any incident resulting from site operations that may endanger the environment, by telephone within 24 hours, and in writing within seven days. The written notification shall fully describe the incident including what occurred, when it occurred, the duration of the incident, when correction occurred (or when correction will occur if it is a continuing incident), and the steps taken or planned to reduce, eliminate, and/or prevent recurrence. All instances of noncompliance with this Order shall also be reported to the Regional Board in the same manner as stated above.
5. The City of Oxnard and/or VRSD shall comply with the postclosure maintenance requirements and notification requirements contained in 21769, Title 27 CCR and in accordance with the Closure and Postclosure Maintenance Plans approved for the site by the Executive Officer, California Integrated Waste Management Board, and local enforcement agency.
6. The City of Oxnard and/or VRSD shall submit, within 60 days after adoption of this Order, documentation demonstrating compliance with Section 22222 of Title 27 CCR, which requires that the site owner provide financial assurance for correcting a known or reasonably foreseeable release from this waste management facility.

F. General Provisions

1. The City of Oxnard and/or VRSD shall comply with all the other applicable provisions, requirements, and procedures contained in the most recent version of Title 27 CCR and any future amendments.
2. Regional Board staff shall be allowed entry to the waste management facility and to areas where records are kept regarding the waste management facility, at any reasonable time. Staff shall be permitted to inspect any area of the landfills and any monitoring equipment used to demonstrate compliance with the Order. Staff shall be permitted to copy any records, photograph any area, obtain samples, and/or monitor operations to assure compliance with this Order, or as authorized by applicable laws or regulations.
3. The City of Oxnard and/or VRSD shall maintain a copy of this Order at the site so as to be available at all times to site operating personnel.

**VENTURA REGIONAL SANITATION DISTRICT
COASTAL AND SANTA CLARA LANDFILLS
ORDER NOS. 00-079 AND 00-080**

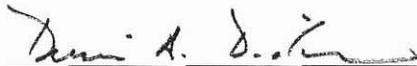
**FILE NOS.
80-004 and 68-035**

4. These requirements do not exempt the site owners from compliance with any other current or future law that may be applicable. The requirements are not a permit; they do not legalize this waste management facility, and they leave unaffected any further restraints on the disposal of wastes at this waste management facility, which may be contained in other statutes.
5. The requirements adopted herein do not authorize the commission of any act causing injury to the property of another, nor protect the City of Oxnard and/or VRSD from their liabilities under Federal, State, or local laws.
6. The filing of a request by the City of Oxnard and/or VRSD for a modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any condition, provision, or requirements of this Order.
7. This Order does not convey any property rights of any sort, or any exclusive privilege.
8. The City of Oxnard and/or VRSD must comply with all of the terms, requirements, and conditions of this Order. Any violation of this Order constitutes a violation of the California Water Code, and is grounds for enforcement action, Order termination, Order revocation and reissuance, denial of an application for reissuance, or a combination thereof.
9. After notice and opportunity for a hearing, this Order may be terminated or modified for cause, including, but not limited to:
 - a. Violation of any term or condition contained in this Order;
 - b. Obtaining this Order by misrepresentation, or failure to disclose all relevant facts;
 - c. A change in any condition that required either a temporary or permanent reduction or elimination of the authorized waste discharge.
10. Order No. 88-027, adopted on February 22, 1988 and Order No. 83-005, adopted on January 24, 1983, are hereby rescinded.

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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 June 29, 2000.



DENNIS A. DICKERSON
Executive Officer

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**VENTURA REGIONAL SANITATION DISTRICT
 COASTAL AND SANTA CLARA LANDFILLS
 ORDER NOS. 00-079 AND 00-080**

**FILE NOS.
 80-004 and 68-035**

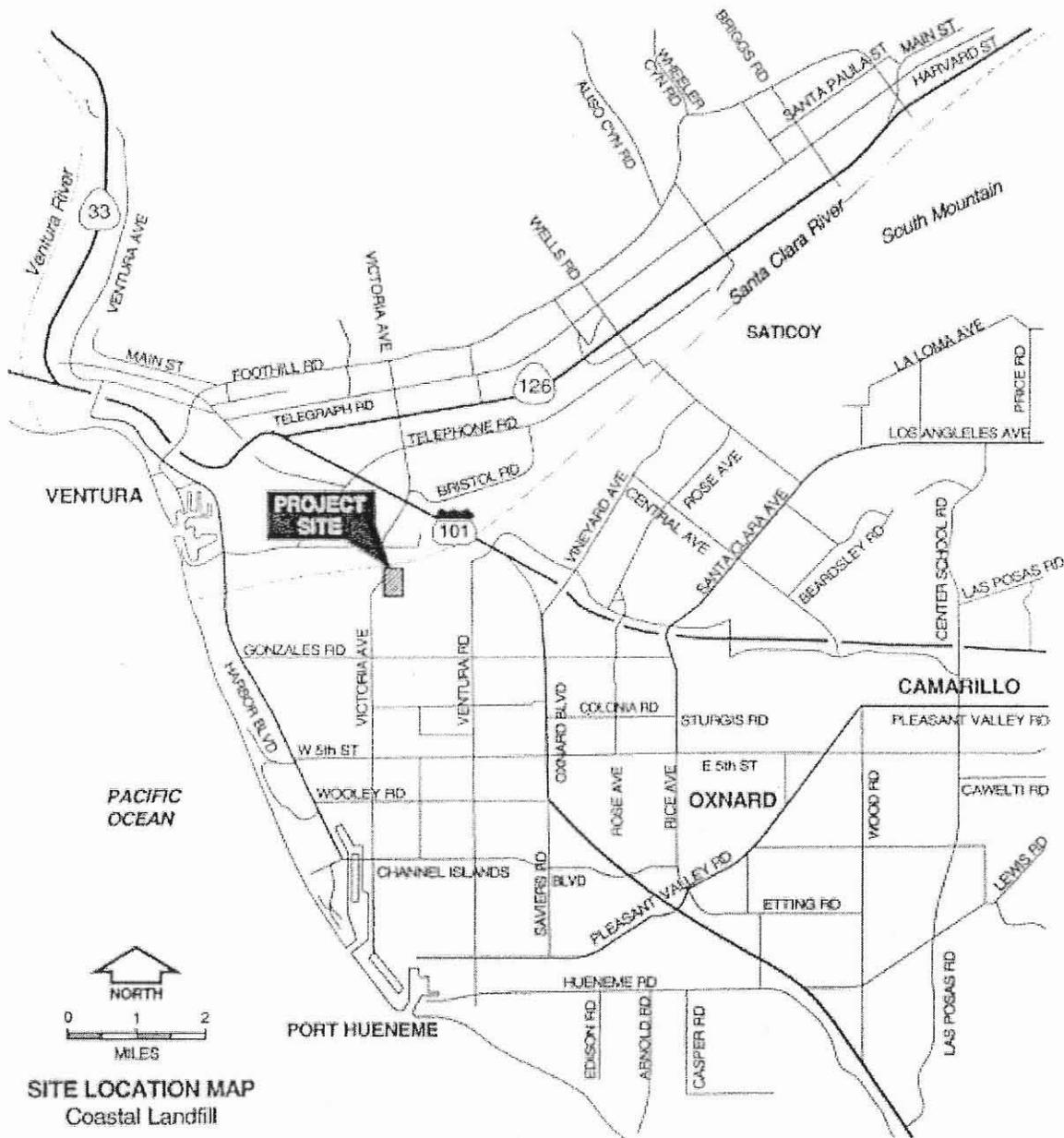


FIGURE 1

VENTURA REGIONAL SANITATION DISTRICT
 COASTAL AND SANTA CLARA LANDFILLS
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FILE NOS.
 80-004 and 68-035

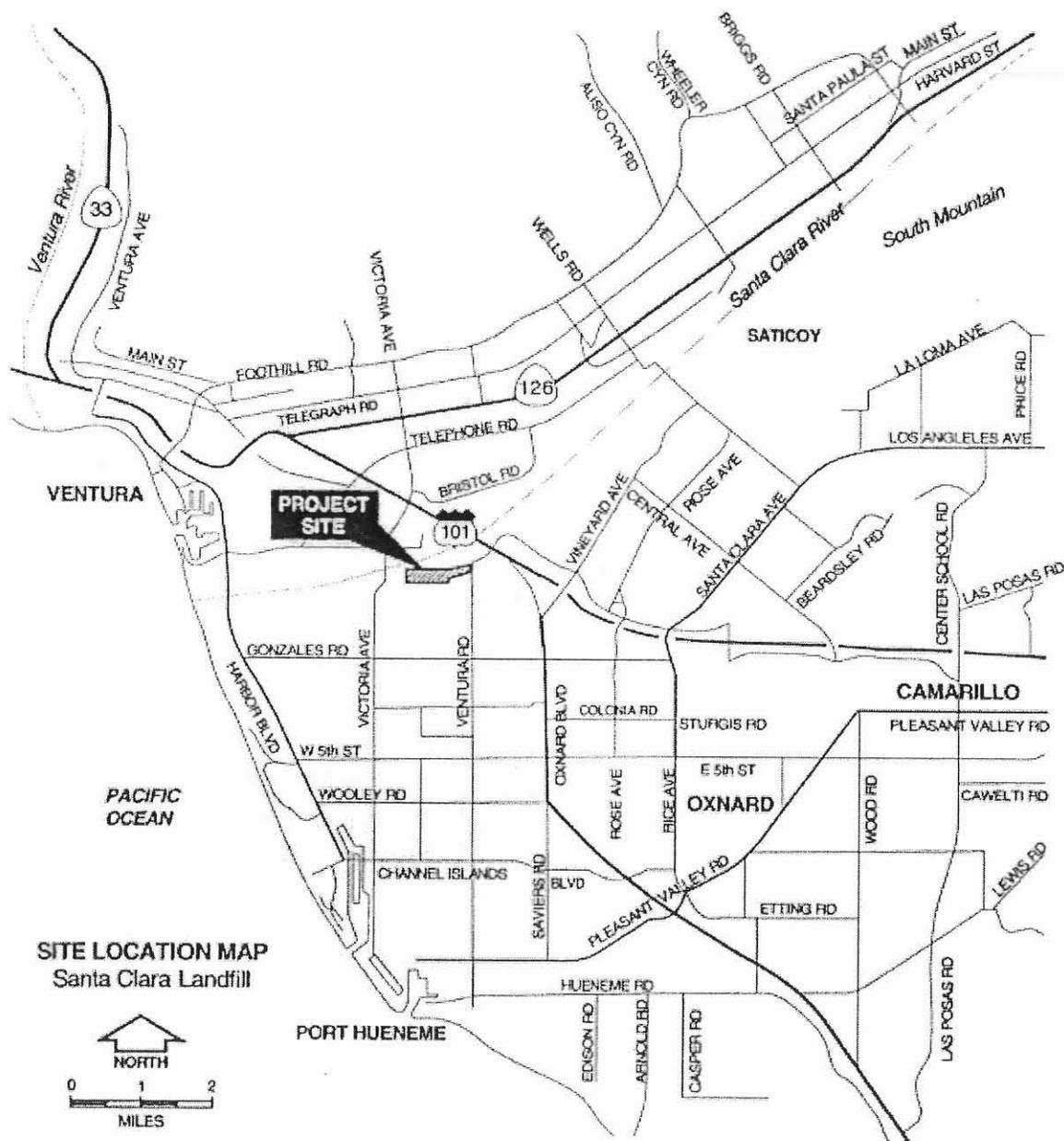


FIGURE 2

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

**MONITORING AND REPORTING PROGRAM NO. CI-5664
FOR
VENTURA REGIONAL SANITATION DISTRICT
(COASTAL AND SANTA CLARA LANDFILLS)**

(FILE NOS. 80-004 and 68-035)

I. REPORTING

- A. The Ventura Regional Sanitation District (VRSD) shall implement this Monitoring and Reporting Program during the first monitoring period immediately following adoption of this Order. The first monitoring report under this program is due by October 31, 2000.
- B. All Monitoring Reports must be addressed to the Regional Board, Attention: Information Technology Unit. The Monitoring Report should reference File No. CI-5664 to facilitate routing to the appropriate staff and file.
- C. VRSD shall perform semiannual monitoring for the Detection Monitoring Program which shall be performed with the following schedule:

<u>Period</u>	<u>Sampling Date</u>	<u>Reporting Date</u>
Winter/Spring (Annual)	April 1 – April 30	June 15
Summer/Fall	October 1 – October 31	December 15

Semiannual groundwater monitoring reports are to include the deterministic and statistical analyses of groundwater flow, and groundwater chemistry. In the event monitoring is not performed as above because of unforeseen circumstances, substitute monitoring shall be performed as soon as possible after these times, and the reason for the delay shall also be given.

- D. By April 30 of each year, VRSD shall submit an annual report (included with the Winter/Spring Report) to the Regional Board. The report shall contain both tabular and graphical, time-series plots depicting concentration trends of routine monitoring parameters detected in groundwater samples during the previous year. In addition, VRSD shall discuss the compliance record.
- E. VRSD shall submit a Technical Report by September 29, 2000, as required by Provision B.3 of Order Nos. 00-079 and 00-080, to upgrade the current groundwater monitoring program.

VENTURA REGIONAL SANITATION DISTRICT ORDER NOS. 00-079 AND 00-080
COASTAL AND SANTA CLARA LANDFILL
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- F. All chemical, bacteriological, and toxicity analyses shall be conducted at a laboratory certified for such analyses by the State Department of Health Services Environmental Laboratory Accreditation Program, or approved by the Executive Officer. Laboratory analyses must follow methods approved by the United States Environmental Protection Agency, and the laboratory must meet EPA Quality Assurance/Quality Control criteria.
- G. For any analyses performed for which no procedures are specified in the EPA guidelines or in the Monitoring and Reporting Program, the constituent or parameter analyzed, and the method or procedure used, must be specified in the report.
- H. VRSD may submit additional data to the Regional Board not required by this program in order to simplify reporting to other regulatory agencies.
- I. Analytical data reported as “less than...” shall be reported as less than a numeric value, or below the limit of detection for that particular analytical method. Also, method detection limits for each monitoring parameter shall be reported.
- J. If VRSD performs analyses for any parameter more frequently than required by this Program using approved analytical methods, the results of those analyses shall be included in the monitoring program.
- K. For every item where the requirements are not met, VRSD shall submit a statement of the actions undertaken or proposed which will bring the discharge into full compliance with requirements at the earliest time and submit a timetable for correction.
- L. VRSD shall retain records of all monitoring information, including all calibration and maintenance records regarding monitoring instrumentation and copies of all data submitted to regulatory agencies for a period of at least five years. The period may be extended by request of the Regional Board at any time, and shall be extended during the course of any unresolved litigation regarding all or any part of the entire waste management facility.
- M. This Monitoring and Reporting Program includes the attached “Standard Provisions Applicable to Waste Discharge Requirements” (Attachment 1). If there is any conflict between provisions stated herein and the “Standard Provisions Applicable to Waste Discharge Requirements”, these provisions stated herein will prevail.
- N. Records of monitoring information shall include:
 - 1. The date, exact place, procedure, and time of sampling or measurement;
 - 2. The individual(s) who performed the sampling or measurement;
 - 3. The date(s) analyses were performed on the samples;

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4. The individual(s) who performed the analyses;
5. The analytical techniques or methods used;
6. The results of the analyses or measurements, including both statistical and non-statistical analyses;
7. The method detection limits;
8. The executive summary of the key findings;
9. The laboratory QA/QC data and chain-of-custody records (except for annual reports).
10. The laboratory certification information;
11. The velocity and direction of groundwater flow; and
12. The measurement of the static water levels of all monitoring wells.

O. In reporting the monitoring data, VRSD shall arrange the data in tabular form.

P. Monitoring reports shall be signed by:

- a. In the case of corporations, by a principal executive officer at least of the level of vice-president or his duly authorized representative, if such representative is responsible for the overall operation of the facility from which the discharge originates;
- b. In the case of a partnership, by a general partner;
- c. In the case of a sole proprietorship, by the proprietor;
- d. In the case of a municipal, state or other public facility, by either a principal executive officer, ranking elected official, or other duly authorized employee.

Q. Each report shall contain the following completed declaration:

"I declare under penalty of perjury that the following is true and correct.

Executed on the _____ day of _____ at _____.

(Signature)

(Title)

VENTURA REGIONAL SANITATION DISTRICT ORDER NOS. 00-079 AND 00-080
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II. GROUNDWATER MONITORING

1. Provisions and General Requirements

- A. All sampling, sample preservation, and analyses shall be performed in accordance with the latest edition of "Guidance Establishing Test Procedures for Analysis of Pollutants," promulgated by the United States Environmental Protection Agency.
- B. VRSD shall calibrate and perform maintenance procedures on all monitoring instruments and equipment to ensure accuracy of measurements, or shall ensure that both activities will be conducted.
- C. No filtering of samples taken for organics analyses shall be permitted. Samples for organics analyses shall be taken with a sampling method that minimizes volatilization and degradation of potential constituents.
- D. Analytical results for groundwater monitoring shall be submitted with the corresponding semiannual monitoring report. If a well was not sampled (or measured) during the reporting period, the reason for the omission shall be given. If no fluid was detected in a monitoring well, a statement to that effect (in lieu of analyses) shall be submitted.
- E. VRSD shall submit all monitoring data in hard copy form and also on computer diskette. The monitoring data submitted on diskette should be in ASCII format, and presented in a cumulative, updated form with each submittal. Monitoring data submitted in hard copy form should be in discrete, noncumulative form.
- F. Semiannual observations and measurements of the static water levels shall be made on all monitoring wells, and records of such observations shall be submitted with the semiannual monitoring reports.
- G. All monitoring wells shall be sounded annually to determine total depth. Wells affected by pumping shall be measured prior to pumping, to the degree that this is possible.
- H. Duplicate samples shall be taken for constituents of concern metals analyses only. Unfiltered samples shall be tested for total metals, and field-filtered samples shall be taken for soluble metals utilizing a 0.45 μ filter and nitric acid; however, care shall be taken that the dissolved metals samples are not exposed to acids until after filtering.
- I. Representative water samples shall be obtained from at least the monitoring points listed in Provision A of this Regional Board's Order Nos. 00-079 and 00-080.

**VENTURA REGIONAL SANITATION DISTRICT ORDER NOS. 00-079 AND 00-080
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- J. The laboratory QA/QC reports shall include, at a minimum, method blanks, calibration checks, surrogate recoveries, matrix spikes, and matrix spike duplicates, spiking concentrations, and laboratory quality control samples. Spiking concentration must be no more than 10 times the method detection limit.
- K. Practical quantification limits shall be below the current Maximum Contaminant Levels listed in Title 22 of CCR or Action Levels recommended by the California Department of Health Services, whenever it is possible.
- L. Proper chain of custody procedures shall be used.
- M. Constituents detected between the method detection limits and the practical quantification limits must be reported, but may be reported as a trace.
- N. All monitoring wells shall be equipped with dedicated sampling pumps.
- O. A report of any monitoring wells or piezometers that have been decommissioned during the year shall be filed with this Board annually. If no wells have been decommissioned, the report shall so state.

2. Sampling and Analyses

- A. All metals analyses shall be for both the total metal and the dissolved phase.
- B. The following are the indicator parameters for this facility; chloride, sulfate, pH, total organic halogens, chemical oxygen demand, total organic carbon, and total dissolved solids.
- C. Routine semiannual sampling and analyses of groundwater for the Detection Monitoring Program (for monitoring wells SC-5; SC-6; 2N/22W-29D1, D2, D3; 2N/22W-29E6, E7, E8, E9; 2N/22W-29M2, M3, M4; 2N/22W-28C6; 2N/22W-29D9 and 2N/22W-29E9) shall consist of the monitoring parameters listed in Provision B.9 of this Regional Board's Order Nos. 00-079 and 00-080. Routine semiannual sampling and analyses shall consist of the following parameters:

<u>Groundwater Monitoring Parameters</u>	<u>Units</u>
Chemical Oxygen Demand	mg/l
Total Dissolved Solids (TDS)	mg/l
Total Organic Halides (TOX)	mg/l
Total Organic Carbon (TOC)	mg/l
Flouride	mg/l

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Chloride	mg/l
Sulfate	mg/l
Boron	mg/l
Iron ¹	mg/l
Manganese	mg/l
pH	pH units
Hydroxide Alkalinity (CaCO ₃)	mg/l
Total Hardness (as CaCO ₃)	mg/l
Electrical Conductivity	µmhos/cm
Benzene	µg/l
Carbon Tetrachloride	µg/l
Trichloroethylene	µg/l
Perchloroethylene	µg/l
Vinyl Chloride	µg/l

¹ Analyses shall be performed on both filtered and unfiltered samples and the results so reported.

- D. Once each year, during the Winter/Spring monitoring period, all wells shall be sampled and these samples analyzed for Volatiles, Semi-volatiles, Pesticides and PCB's. All peaks greater than 10% of the internal standard shall be identified and quantified for gas chromatography analyses. The following heavy metal shall also be determined: Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Hexavalent Chromium, Lead, Magnesium, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Vanadium, and Zinc. In addition, Biological Oxygen Demand, Bicarbonate, Carbonate, Foaming Agents, Herbicides, Nitrate, Nitrite, Oil and Grease, Sulfate, Sulfides, Total cyanide, Total phenols, and Turbidity shall also be determined.
- E. Routine sampling and analyses consisting of the constituents of concern listed in Provision A of the Regional Board's Order Nos. 00-079 and 00-080 shall be completed every five years, unless required more frequently due to an indication of a release, as described in Title 27 CCR, Section 20420.

III. STORMWATER MONITORING

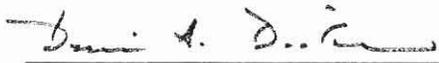
VRSD shall perform stormwater discharge monitoring consistent with the requirements of Water Quality Order No. 97-03-DWQ (Waste Discharge Requirements for Discharge of Storm Water Associated with Industrial Activities Excluding Construction Activities) adopted by the California

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State Water Resources Control Board under the National Pollution Discharge Elimination System (NPDES) General Permit No. CAS000001 and Stormwater Pollution Prevention Plan.

IV. MONITORING OF ONSITE USE OF WATER

If water purged from wells is used onsite in accordance with Provisions B and C of this Regional Board's Order Nos. 00-079 and 00-080, the discharger shall analyze constituents listed in Provision B.9 and Provision C.8 of Order Nos. 00-079 and 00-080 and submit the data in the semiannual monitoring report.

Ordered By: 
DENNIS A. DICKERSON
Executive Officer

June 29, 2000

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