CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN DIEGO REGION

MONITORING AND REPORTING PROGRAM NO. 97-17

FOR CORRECTIVE ACTION AT THE COUNTY OF SAN DIEGO
RAMONA SANITARY LANDFILL
SAN DIEGO COUNTY

A. MONITORING PROVISIONS

1. Monitoring must be conducted according to United States Environmental Protection Agency test procedures approved under Title 40, Code of Federal Regulations (CFR), Parts 136, "Guidelines Establishing Test Procedures for Analysis of Pollutants Under the Clean Water Act" as amended, unless other test procedures have been specified in this Order.

2. 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 of the laboratory whose name appears on the certification shall supervise all analytical work in his/her laboratory and shall sign all reports of such work submitted to the Regional Board.

3. If the discharger monitors any pollutants more frequently than required by this Order. using the most recent version of Standard U. S. EPA Methods, or as specified in this Order, 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.

4. The discharger shall report any noncompliance which may endanger health or the environment such as slope failure occurring in the waste management unit or a failure which threatens the integrity of the containment features of the landfill or retention basins. Any such information shall be provided verbally to the Executive Officer within 24 hours from the time the owner becomes aware of the circumstances. A written submission shall also be provided within five days of the time the owner becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause, the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, 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.

5. The discharger shall report all instances of noncompliance not reported in Monitoring Provision A.4 at the time monitoring reports are submitted. The reports shall contain the information listed in Monitoring Provision A.4.

6. 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.

7. The water quality monitoring program shall include consistent sampling and analytical procedures that are designed to ensure that monitoring results provide a reliable indication of water quality at all monitoring points and background monitoring points.

8. 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.

9. The discharger shall retain records of all monitoring information, including all calibration and maintenance records and copies of all reports required by this Order. 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.

10. The discharger shall submit quarterly reports of the analyses obtained for all samples taken. The reports shall include the following information:

    a. Field monitoring parameters, sample identifications, and chain-of-custody sheets;

    b. The method detection limit (MDL);

    c. Measured concentrations found in the current sampling event;

    d. The laboratory quality assurance data performed during sample analyses. The laboratory QA/QC information should include the method, equipment and analytical detection limits; the recovery rate that is less than 80%; the results of equipment and method blanks; the results of spiked and surrogate samples; the frequency of quality control analysis; and the name and qualifications of the person(s) performing analyses: and

    e. The statistical data and a determination of whether there is a statistically significant increase over water quality protection standards for each parameter and constituent at each non-background monitoring point.

11. The monitoring reports shall be signed and certified by an authorized person as follows:

a. (1) **For a corporation** - by a principal executive officer of at least the level of vice-president.

(2) **For a partnership or sole proprietorship** - by a general partner or the proprietor, respectively.

(3) **For a municipality, state, federal or other public agency** - by either a principal executive officer or ranking elected official.

(4) **For a military installation** - by the base commander or the person with overall responsibility for environmental matters in that branch of the military.

b. All other reports required by this Order and other information required by the Executive Officer shall be signed by a person designated in paragraph (a) of this provision, or by a duly authorized representative of that person. An individual is a duly authorized representative only if:

(1) The authorization is made in writing by a person described in paragraph (a) of this provision;

(2) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity; and

(3) The written authorization is submitted to the Executive Officer.

c. 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."

B. GROUNDWATER CORRECTIVE ACTION MONITORING PROGRAM

1. At a minimum, groundwater monitoring wells shall be constructed, developed, and maintained in accordance with Chapter 10 of California Water Code and California Water Well Standards, Bulletin No. 74-90, or better well standards. Soil shall be described according to the Unified Soil Classification System and logged by a California registered geologist. Copies of the logs and as-built specifications of the wells shall be submitted to the Regional Board.

2. Prior to sampling monitoring wells, the presence of a floating immiscible layer in all wells shall be determined at the beginning of each sampling event. This shall be done prior to any other activity which may disturb the surface of the water in a well, e.g. water level measurements. If an immiscible layer is found, it must be sampled, analyzed,and reported.

3. Prior to sampling monitoring wells, the water standing in the casing shall be purged until the water chemistry has stabilized with respect to pH and specific conductance. Integrity of the samples should be considered in selecting sampling equipment.

4. Field logs used during well purging shall be included in the monitoring reports. The information contained in these logs shall include; the method of monitoring the field parameters, calibration of the field equipment, method of purging (if a pump is used, include pump placement and pumping rate), date each well was purged, well recovery time, method of disposal of the purged water, an estimate of volume of water purged from each well, the results of all field analyses, well number, date, depth to groundwater, method of measuring the water level, and field personnel signatures.

5. Groundwater samples will be collected quarterly from the following monitoring wells in the corrective action plan, as described in the report entitled, "Proposed Chapter 15 Corrective Action Monitoring Program, dated April 29, 1997: RAGW -1, 2, 3, 4, 5, and 7, ITRA - 1, 2, and 5. The County also conducts monitoring at a number of domestic/private wells adjacent to the landfill. The number of wells to which the County has access varies throughout the year. The locations of the monitoring wells are shown on Attachment No. 1 to Monitoring and Reporting Program No. 97-17.

6. All samples from each monitoring well shall be tested for the monitoring parameters analyzed in the detection monitoring program prescribed in Regional Board Order Nos. 70-R14 and 93-86, as well as all constituents detected in the current monitoring program in one or more compliance wells at mean concentrations significantly higher than those in the background wells.

7. To assess the effectiveness of the proposed corrective action measures at the Ramona Landfill, the following methodology is proposed by the discharger:

Each compliance well subject to corrective action and each background well will be monitored on a quarterly basis as described in Section B.6. For each monitored constituent, the mean quarterly concentration in each affected compliance well will be compared to pooled data from the background wells. A mean background concentration for purposes of comparison shall be established by combining values obtained in all background wells during the preceding 12 months. When significant differences exist among background wells, each compliance well will be evaluated against similar background well(s) based on hydrogeologic considerations (e.g., soil type, etc.).

After the first quarter in which the concentrations of all monitored constituents in the affected compliance wells are observed at or below the corresponding mean background concentrations, corrective action measures shall be terminated and a proof period of one year shall be initiated. During this period, monitoring of the background well(s) and the affected compliance wells will consist of no less than eight sampling events per year per monitoring point. For each monitored constituent, each affected compliance well will be evaluated against the corresponding set of background wells. The comparisons will utilize information collected from the affected compliance wells since the initiation of the proof period and background information from the most recent 12 months of sampling.

C. CORRECTIVE ACTION SPECIFICATIONS

1. The discharger shall take corrective action to remediate releases from the waste management unit and to ensure that the waste management unit achieves compliance with the water quality protection standard under 23 CCR 15 Section 2550.2.

2. The discharger shall implement corrective action measures that ensure that constituents of concern achieve their respective concentration limits at all monitoring points and throughout the zone affected by the release, including any portions thereof that extend beyond the facility boundary, by removing the waste constituents or treating them in place. The discharger shall take other action approved by the Regional Board to prevent noncompliance with those limits due to a continued or subsequent release from the waste management unit, including but not limited to, source control. The waste discharge requirements shall specify the specific measures that will be taken.

3. In conjunction with the corrective action measures, the discharger shall establish and implement a water quality monitoring program to demonstrate the effectiveness of the corrective action program. Such a monitoring program may be based on the requirements for an evaluation monitoring program under 23 CCR 15 Section 2550.9, and shall be effective in determining compliance with the water quality protection standard under 23 CCR 15 Section 2550.2 and determining the success of the corrective action measures pursuant to 2550.10(c).

4. Corrective action measures taken pursuant to 23 CCR 15 Section 2550.10 shall be initiated and completed by the discharger within a period of time specified by the Regional Board in waste discharge requirements.

5. Corrective action measures taken pursuant to 23 CCR 15 Section 2550.10 shall be terminated when the discharger demonstrates to the satisfaction of the Regional Board that the concentrations of all constituents of concern are reduced to levels below their respective concentration limits.

6. After suspending the corrective action measures, pursuant to 23 CCR 15 Section 2550.10(f), the waste management unit shall remain in the Corrective Action Program until an approved Detection Monitoring Program meeting the requirements of 23 CCR 15 Section 2550.8 has been incorporated into waste discharge requirements and until the discharger demonstrates to the satisfaction of the Regional Board that the waste management unit is in compliance with the water quality protection standard. This demonstration shall be based on the following criteria and requirements:

   a. The concentration of each constituent of concern in each sample from each monitoring point in the Corrective Action Program for the waste management unit must have remained at or below its respective concentration limit during a proof period of at least one year, beginning immediately after the suspension of corrective action measures; and

   b. The individual sampling events for each monitoring point must have been evenly distributed throughout the proof period and have consisted of no less than eight sampling events per year per monitoring point.

7. The discharger shall report, in writing, to the Regional Board on the effectiveness of the Corrective Action Program and submit these reports quarterly in accordance with Reporting Schedule D. More frequent reporting shall be required by the Regional Board as necessary to ensure the protection of human health or the environment.

8. If the discharger determines that the Corrective Action Program does not satisfy the provisions of this section, the discharger shall, within 90 days of making the determination, submit an amended report of waste discharger to make appropriate changes to the program.

9. Any time the Regional Board determines that the corrective action program does not satisfy the requirements of this section, the discharger shall, within 90 days of receiving written notification of such determination by the Regional Board, submit an amended report of waste discharge to make appropriate changes to the program.

D. REPORTING SCHEDULE

The monitoring reports shall be submitted to the Executive Officer in accordance with the following schedule:

Report Frequency	Report Period	Report Due
Quarterly	January - March	April 30
	April - June	July 30
	July - September	October 30
	October - December	January 30

Date: March 7, 1997

Order by: John H. Robertus
JOHN H. ROBERTUS
EXECUTIVE OFFICER