

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

**MONITORING AND REPORTING PROGRAM NO. CI-5644  
FOR  
VENTURA REGIONAL SANITATION DISTRICT,  
(TOLAND ROAD LANDFILL)**

**(File No. 69-091)**

**General**

1. Responsibilities of Ventura Regional Sanitation District (Discharger) are specified in section 13225(a), 13267(b) and 13387(b) of the California Water Code, and the State Water Resources Control Board's Resolution No. 93-62. This self-monitoring program is issued pursuant to California Regional Water Quality Control Board, Los Angeles Region (Regional Board) Order No. R4-2007-0063. The principal purposes of a self-monitoring program by a waste discharger are:
  - a. To document compliance with discharge requirements and prohibitions established by the Regional Board;
  - b. To facilitate self-policing by the waste discharger in the prevention and abatement of pollution arising from waste discharge; and
  - c. To prepare water quality analyses.
2. The Discharger shall implement this monitoring and reporting program (M&RP), as described in section H (Requirements for Water Quality Monitoring) of Order No. R4-2007-0063. The Discharger shall implement this M&RP during the first monitoring period immediately following adoption of this Order.

**I. REQUIRED MONITORING AND INSPECTIONS**

1. The Discharger shall conduct the following monitoring program and inspections at the Landfill. Unless otherwise indicated, all monitoring data and inspection results shall be reported to the Regional Board as outlined in section II (Required Reports and Contingency Response) of this M&RP.
2. For the purposes of this monitoring program the terms “monitoring well”, “extraction well”, “observation well”, “piezometer”, and “sump” are synonymous.
3. The groundwater monitoring system at the Toland Road Landfill includes six final groundwater monitoring wells (TMW-1, TMW-2, TMW-3, TMW-4, TMW-5, and

**VENTURA REGIONAL SANITATION DISTRICT  
TOLAND ROAD LANDFILL  
MONITORING AND REPORTING PROGRAM NO. 5644**

**ORDER NO. R4-2007-0063**

OWTS-1 and three interim monitoring wells TwP1A, TwP1B, and TwP1C) that will continue to be monitored until a revised statistical analysis plan incorporating testing from the final groundwater monitoring network has been approved by the Regional Board executive officer. Final groundwater monitoring points at the Toland Road Landfill shall consist of TMW-1, TMW-2, TMW-3, TMW-4, TMW-5, and OWTS-1 (see attached Figure 1).

4. The Discharger shall comply with the requirements of 27 CCR, section 20415 for any water quality monitoring program developed to satisfy 27 CCR, section 20420 (Detection Monitoring Program), section 20425 (Evaluation Monitoring Program), or section 20430 (Corrective Action Program) and the requirements of this Order.
  - a. Groundwater monitoring shall meet the requirements of 27 CCR, section 20415(b) and 40 CFR, section 258.51 (a, c, and d);
  - b. Surface water monitoring shall meet the requirements of 27 CCR, section 20415(c). In addition, whenever possible, the Discharger shall measure volumetric flow or, at a minimum, visually estimate the flow rate for all surface water monitoring points with flowing water (i.e. any flowing seeps or springs that develop during the development or operation of the Landfill);
  - c. An unsaturated zone (vadose zone) monitoring program is required by 27 CCR, section 20415(d). However, as described in Finding No. 14 of Order No. R4-2007-0063, unsaturated zone monitoring attempted at the Landfill has proved ineffective. Through adoption of this Order the Regional Board approves that an unsaturated zone monitoring program is not required for continued operation of the Landfill.
  - d. Three historic groundwater seeps (Phase IIB seep, Phase III seep, and United Water seep) has proved ineffective in supplementing water quality monitoring at the Landfill because collection of water samples has been problematic as the seeps often failed to yield an adequate volume of water to allow analysis (see Finding No. 15 of Order No. R4-2007-0063). Through adoption of this Order the Regional Board approves that a groundwater seeps monitoring program is not required for continued operation of the Landfill.
  - e. Soil-pore water monitoring has proved ineffective in supplementing water quality monitoring at the Landfill because collection of water samples has been problematic as soil-pore water wells often failed to yield an adequate volume of water to allow analysis (see Finding No. 16 of Order No. R4-2007-0063). Through adoption of this Order the Regional Board approves that a soil-pore water monitoring program is not required for continued operation of the Landfill.

**VENTURA REGIONAL SANITATION DISTRICT  
TOLAND ROAD LANDFILL  
MONITORING AND REPORTING PROGRAM NO. 5644**

**ORDER NO. R4-2007-0063**

5. Initial Full Appendix II Scan: Within 30 days of the adoption of this Order, all groundwater monitoring points where a full Appendix II scan has not been performed within the last five years must be sampled and analyzed for the presence or absence of all Appendix II constituents that are not yet on the Landfill's monitoring parameter list. Such sampling shall also be performed at any new groundwater monitoring well within 30 days of installation. For any Appendix II constituent detected in the scan that is not yet on the Landfill's monitoring parameter list, the Discharger shall resample for that constituent, within 30 days, at all monitoring points where the constituent(s) was detected. Any Appendix II constituent that is detected and confirmed at one or more groundwater monitoring points becomes a new constituent of concern COC) for the Landfill and shall be added to the Landfill's monitoring parameter list, pursuant to 40 CFR part 258.55(b-d).
6. Monitoring Parameters: Current groundwater monitoring parameters at the Landfill are listed in Table 1, including:
  - a. Indicator Parameters, including all Inorganic Indicator Parameters, Appendix I VOCs, methyl tertiary butyl ether (MTBE), and 1,4-Dioxane. These constituents are considered capable of providing reliable indication of a release from the Landfill. The Discharger shall apply the statistical analyses described in Section II.B.8. or nonstatistical analysis in Section II.B.9. of this M&RP to analyze all groundwater monitoring data obtained under this program
  - b. Supplemental Parameters are inorganic constituents that provide important information regarding groundwater geochemistry but are not expected to show significant variation in groundwater in the event of a Landfill release. Monitoring data for the Supplemental Parameters will generally be used for informational purposes only and will not be subjected to routine statistical analysis.
  - c. Other COCs: These include trace metals and any other pollutants that have been detected and confirmed to be in leachate from the Landfill.
7. COC List: As of the date of this M&RP, the COC list for the Landfill shall consist of all those constituents listed in Table 1. In addition, at any subsequent time, the COC list shall include: all Appendix II constituents detected and verified in the initial scan under Sections II.B.1. and all Appendix II constituents that have been detected and affirmed in leachate scans required by this M&RP. The Discharger shall notify Regional Board staff of any such new addition to the COC list immediately, via phone, fax, or e-mail, shall note it in the operating record within 14 days of the verification, and shall note prominently the constituent(s) added to the COC list in the next scheduled monitoring report.
8. Groundwater Quality Monitoring: The Discharger shall conduct the following

**VENTURA REGIONAL SANITATION DISTRICT  
TOLAND ROAD LANDFILL  
MONITORING AND REPORTING PROGRAM NO. 5644**

**ORDER NO. R4-2007-0063**

groundwater monitoring activities at the Landfill:

- a. Semiannual Monitoring shall be conducted at all groundwater monitoring wells. Water samples from these monitoring points shall be analyzed for all Indicator Parameters and Supplemental Parameters on a semi-annual basis;
  - b. Five-Yearly COC Scan: Every five years, starting in 2007, the Discharger shall analyze a sample from each ground water monitoring point for the detectable presence (including trace determinations) of all COCs that are not yet on the Monitoring Parameter list. This constitutes the means by which the Discharger continues to meet the requirements of 40 CFR part 258.55(b)-(d).
    - i. During each such COC scanning event, the Discharger shall obtain and analyze a minimum of one sample from each monitoring well (sufficient to obtain a datum for each COC that is subject to the scan). Upon detecting (including trace value) a COC that is not yet on the monitoring parameter list, the Discharger shall, within 30 days, take a single resample from the indicating affected well(s) and reanalyze it only for the newly-detected constituent(s).
    - ii. Any COC detected in samples collected from a groundwater monitoring well, and verified by a retest, automatically becomes part of the monitoring parameter list for the Landfill. This constitutes the means by which the Discharger shall meet the requirements of 40 CFR part 258.55(d)(2).
9. Semiannual Determination of Groundwater Flow Rate / Direction (27 CCR, section 25415(e)(15): The Discharger shall measure the water level in each well and determine groundwater flow rate and direction in each groundwater body semiannually. This information shall be included in the semiannual monitoring parameter reports.
  10. At any time, the Discharger may propose to revise or amend the statistical analysis methods for the Landfill to develop a site specific analysis methodology that incorporates the spectrum of possible changes in data characteristics over time. Revised or amended statistical analysis methods will not be implemented by the Discharger unless they are approved by the Executive Officer.
  11. Statistical Data Analysis Methodology
    - a. Intra-well comparison methods shall be used for all compliance wells for all constituents that are detectable at concentrations above their respective Method Detection Limit (MDL) in 10% or more of the background data to date. Initially, for each given monitoring parameter at a given downgradient monitoring well, the

**VENTURA REGIONAL SANITATION DISTRICT  
TOLAND ROAD LANDFILL  
MONITORING AND REPORTING PROGRAM NO. 5644**

**ORDER NO. R4-2007-0063**

proposed background data set shall consist of all validated data from that compliance well and parameter, from the previous five year period. Every two years, following the adoption of this M&RP, as part of the annual monitoring summary report, the Discharger shall add the newer data to the background data set for each monitoring parameter after validating (via a method approved by the Executive Officer) that the new data does not indicate an increase over the existing background data. At that time, the Discharger shall also retire the monitoring parameter's oldest two years of background data, thereby producing a data set covering the then-previous five years. The Discharger shall validate the proposed intra-well background data set as follows for each monitoring parameter at each well (initially) or, subsequently, at a new well or for a new monitoring parameter at an existing well. The Discharger shall report the validated or updated background data set, for each affected monitoring parameter, in the next scheduled monitoring report.

- b. Per 27 CCR section 20415(e)(9)(C), if a control chart approach is used to evaluate water quality monitoring data, the specific type of control chart and its associated statistical parameter values (e.g., the upper control limit) shall be included in the supporting documentation as required by 27 CCR section 20415(e)(7). The Discharger shall use the procedure only if this supporting documentation shows the procedure to be protective of human health and the environment. Any control charting procedure must have a false positive rate of no less than 1 percent for each monitoring point charted. For example, upper control limits on X bar or R Charts used only once every six months (where no composite retest is used) must be set at no more than 2.327 standard deviations of the statistic plotted for a one-sided statistical comparison, or at no more than 2.576 standard deviations of the statistic plotted for a two-sided statistical comparison.
- c. In the event that an approved data analysis method provides a preliminary indication that a given monitoring parameter has a measurably significant increase at a given well, the Discharger shall conduct a verification procedure (retest) in accordance with 27 CCR section 20415(e)(8)(E).
- d. The verification procedure shall be performed only for the constituent(s) or parameter(s) that has shown "measurably significant" (see 27 CCR section 20164) evidence of a release, and shall be performed only for those monitoring points at which a release is indicated.
- e. Water Quality Monitoring Approach: Except for COC scans, the monitoring approach used for each monitoring parameter at compliance wells shall be controlled by whether that monitoring parameter has exhibited a measurably significant increase at that well. Therefore, the Discharger shall monitor each monitoring parameter in one of two modes, as follows, either:

**VENTURA REGIONAL SANITATION DISTRICT  
TOLAND ROAD LANDFILL  
MONITORING AND REPORTING PROGRAM NO. 5644**

**ORDER NO. R4-2007-0063**

- i. **Detection Mode:** For a monitoring parameter that has not produced a measurably significant increase at that well, the purpose of monitoring, for that monitoring parameter, is to watch for the monitoring parameter's arrival at that well at a concentration strong enough to trigger a measurably significant indication using an appropriate statistical or nonstatistical data analysis method; or
    - ii. **Tracking Mode:** For a monitoring parameter that has produced a measurably significant increase at a given well, the purpose of the monitoring, for that monitoring parameter, is to verify the suitability and effectiveness of the existing or proposed corrective measures by tracking changes in the monitoring parameter 's concentration at that location via an evolving concentration-versus-time plot.
  - f. **Detection Mode Data Analyses:** The following applies to all detection mode data analyses:
    - i. **Monitoring Parameters Readily Detectable in Background:** At any given monitoring point, the Discharger shall apply an appropriate statistical analysis for each detection mode monitoring parameter that exceeds its respective MDL in at least 10% of the applicable background data set;
    - ii. **Monitoring Parameters Not Readily Detectable in Background:** For any monitoring point at which one or more monitoring parameters, in detection mode, exceed their respective MDL in less than 10% of the applicable background data set, the Discharger shall analyze the data for these monitoring parameters via the California Nonstatistical Data Analysis Method (CNSDAM) test described in Item No. I.13 of this M&RP.
12. **California Nonstatistical Data Analysis Method (CNSDAM)**
- a. **Non-Statistical Method for Detection Mode for Monitoring Parameters Seldom Found in Background:** For any given compliance (downgradient) well, regardless of the monitoring program (Detection Monitoring, Evaluation Monitoring, or Corrective Action), the Discharger shall use this data analysis method, jointly, for all constituents on the “scope list” in Item No. I.13.a.i of this M&RP (or, for each retest sample, the modified scope list of Item No. I.13.b.ii.
    - i. **Scope List:** Within 30 days of the effective date of this Order, the Discharger shall create a current “scope list” showing each detection mode monitoring parameter, at that well, that exceeds its MDL in less than 10%

**VENTURA REGIONAL SANITATION DISTRICT  
TOLAND ROAD LANDFILL  
MONITORING AND REPORTING PROGRAM NO. 5644**

**ORDER NO. R4-2007-0063**

of its background data.

- ii. Two Triggers: From the scope list made under Item No. I.13.a.i above, for an initial test (or, for a retest, the modified scope list under Item No. I.13.b.ii below), the Discharger shall identify each monitoring parameter in the current sample from that well that exceeds either its respective MDL or Practical Quantitation Limit (PQL). The Discharger shall conclude that these exceeding monitoring parameters provide a preliminary indication (or, for a retest, provide a measurably significant indication) of a change in the nature or extent of the release, at that well, if either:
  - A. Two or more of the monitoring parameters on a monitoring well's scope list exceed their respective MDL; or
  - B. At least one of the monitoring parameters on a monitoring well's scope list equals or exceeds its respective PQL.
- b. Discrete Retest [27 CCR section 20415(e)(8)(E)]:
  - i. In the event that the Discharger concludes (pursuant to Item No. I.13.a.ii above) that there is a preliminary indication, then the Discharger shall immediately notify Regional Board staff by phone, fax, or e-mail and, within 30 days of such indication, shall collect two new (retest) samples from the indicating compliance well.
  - ii. For any given compliance well, the Discharger shall analyze the retest samples only for those constituents indicated in that well's original test, under Item No. I.13.a.ii of this M&RP, and these indicated constituents shall comprise the well's "modified scope list." As soon as the retest data are available, the Discharger shall apply the same test (under Item No. I.13.a.ii above, but using this modified scope list) to separately analyze each of the two suites of retest data at that compliance well.

If either (or both) of the retest samples trips either (or both) of the triggers under Item No. I.13.a.ii, then the Discharger shall conclude that there is a measurably significant increase at that well for the constituent(s) indicated in the validating retest sample(s). Furthermore, thereafter, the Discharger shall monitor the indicated constituent(s) in tracking mode at that well, shall remove the constituent(s) from the scope list created for that well, notify the Regional Board in writing, and highlight this conclusion and these changes in the next scheduled monitoring report and in the Landfill's operating record.

**VENTURA REGIONAL SANITATION DISTRICT  
TOLAND ROAD LANDFILL  
MONITORING AND REPORTING PROGRAM NO. 5644**

**ORDER NO. R4-2007-0063**

13. Leachate Monitoring: The Discharger shall conduct leachate monitoring at any leachate collection system as follows:
  - a. Annual Appendix II Constituent Scan: Leachate samples shall be taken at each monitoring point each year during the month of October. The samples shall be analyzed for all Appendix II Constituents in 40 CFR, part 258.
  - b. Retest: If any constituents that are not in the COC list are detected in the leachate sampling event at any sampling point, the Discharger shall resample the leachate at that point during the next April and analyze the sample for those detected constituents. If any such constituent is confirmed to be in the leachate, the Discharger shall add the constituent to the COC list and report this to the Regional Board within two weeks of the confirmation.
  - c. Reporting: Leachate monitoring results shall be included in the semiannual and annual report that covers the period during which the monitoring is conducted.
  
14. If any time the laboratory analysis of a sample from a background monitoring point, sampled for Volatile Organic Compounds (VOCs), shows either two or more VOCs above their respective MDL, or one VOC above its respective PQL, then the Discharger shall immediately notify the Regional Board by phone that possible background contamination has occurred, shall follow up with written notification by certified mail within seven days, and shall obtain two new independent VOC samples from that background monitoring point and send them for laboratory analysis of all detectable VOCs within thirty days. If either or both the new samples validates the presence of VOCs at that background monitoring point, using the above procedure, the Discharger shall:
  - a. Immediately notify the Regional Board regarding the VOCs verified to be present at that background monitoring point, and follow up with written notification submitted by certified mail within seven days of validation; and
  - b. Within 180 days of validation, submit a report, acceptable to the Regional Board's Executive Officer, which examines the possibility that the detected VOCs originated from the landfill and proposing appropriate changes to the monitoring program.
  
15. If the Regional Board's Executive Officer determines, after reviewing the report submitted under Item No. I.15, that the detected VOCs most likely originated from the Landfill, the Discharger shall assume that a release has been detected and shall immediately begin carrying out the requirements of Item No. II.7.d of this M&RP.



**II. REQUIRED REPORTS AND CONTINGENCY RESPONSE**

1. The Discharger shall submit any reports required by this Order electronically, in accordance with section 3890 et. seq. of the 23 CCR, division 3. In addition, complete paper copies of any Joint Technical Document (or addenda thereto), Closure/Post-Closure Plan, Final Design Report or Construction Quality Assurance Report, shall be submitted to this Regional Board office by the required electronic submittal date.
2. Written reports shall be maintained by the Discharger or corresponding laboratory and shall be retained for a minimum of five years. This period of retention shall be extended during the course of any unresolved litigation regarding this discharge or when requested by the Regional Board. Such records shall show the following for each sample:
  - a. Identity of sample and of the monitoring point from which it was taken, along with the identity of the individual who obtained the sample;
  - b. Date and time of sampling;
  - c. Date and time that analyses were started and completed, and the name of the personnel performing each analysis;
  - d. Complete procedure used, including method of preserving the sample, and the identity and volumes of reagents used;
  - e. Calculations of results; and
  - f. Results of analyses, and the MDL and PQL for each analysis.
3. A semiannual monitoring report and an annual summary report shall be submitted pursuant the following schedule. Every five years, the Discharger shall also submit a report concerning the direct analysis of all COCs (COC report), alternating between the Spring/Summer and Fall/Winter monitoring periods.

Semiannual Reports:

<u>Period</u>	<u>Sampling Period</u>	<u>Reporting Date</u>
Spring/Summer	September	November 15
Fall/Winter	March	May 15

Annual Summary Report

<u>Period</u>	<u>Sampling Period</u>	<u>Reporting Date</u>
January 1 - December 31	March	April 30

4. Semiannual Reports shall include, but should not be limited to, the following:

**VENTURA REGIONAL SANITATION DISTRICT  
TOLAND ROAD LANDFILL  
MONITORING AND REPORTING PROGRAM NO. 5644**

**ORDER NO. R4-2007-0063**

- a. **Transmittal Letter:** A letter transmitting the essential points shall accompany each report. Such a letter shall include a discussion of any violations found since the last such report was submitted, and shall describe actions taken or planned for correcting those violations. If the Discharger has previously submitted a detailed time schedule for correcting said 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. Monitoring reports and the letter transmitting the monitoring reports shall be signed by a principal executive officer at the level of vice president or above, or by his/her duly authorized representative, if such a representative is responsible for the overall operation of the facility from which the discharge originates. The letter shall contain a statement by the official, under penalty of perjury, that to the best of the signer's knowledge the report is true, complete, and correct.
- b. **Summary of Non-Compliance:** The report shall contain a summary of non-compliance that discusses the compliance record and the corrective actions taken or planned that may be needed to bring the discharge into full compliance with waste discharge requirements. Significant aspects of any on going corrective action measures conducted during the monitoring period shall also be summarized. This section shall be located at the front of the report and shall clearly list all non-compliance with discharge requirements, as well as all exceedances of water quality protection standards.
- c. **Site Conditions:** General discussion of site conditions (geology, climate, 100 year 24 hour storm, and watershed specifics, etc.) relative to water quality monitoring.
- d. **Narrative Description:** A narrative discussion of the sites various monitoring activities and results. Each requirement of Part II of this M&RP shall be specifically discussed.
- e. **Laboratory Results:** Laboratory results and statements demonstrating compliance with Part II of this Monitoring and Reporting Program. Results of additional water sampling and analyses performed at the Landfill, outside of the requirements of this M&RP, shall be summarized and reported. If the results of such additional sampling and analyses have or will be reported under separate cover, a statement as such shall be included in the monitoring report.
- f. **Standard Observations:** A summary and certification of completion of all Standard Observations for the Landfill property in accordance with NPDES monitoring and reporting requirements. The records of observation are to be included with the semiannual report due April 30<sup>th</sup>.

**VENTURA REGIONAL SANITATION DISTRICT  
TOLAND ROAD LANDFILL  
MONITORING AND REPORTING PROGRAM NO. 5644**

**ORDER NO. R4-2007-0063**

- g. Extracted Groundwater and Leachate: A summary of the total volume, on a monthly basis, of groundwater extracted at the extraction trench and any other locations at the site, and how this water is handled. If there is any landfill leachate and gas condensate that has been extracted from the landfill, the volume and disposal method of these liquids shall also be reported.
- h. Waste Disposal Reporting: Waste disposal activities at the site, including:

  - i. A tabular list of the estimated average monthly quantities (in cubic yards and tons) deposited each month.
  - ii. An estimate of the remaining capacity (in cubic yards and tons) and the remaining life of the site in years and months.
  - iii. A certification that all wastes deposited were deposited in compliance with the Board's requirements, and that no wastes were deposited outside of the boundaries of the waste management area as specified in the Board's requirements.
  - iv. A description of the location and an estimate of the seepage rate or flow of all known seeps and springs at the site.
  - v. The estimated amount of water used at the waste management area for landscape irrigation, compaction, dust control, etc., during each month. (If a source other than potable water is used, the sources and amounts of water from each source shall also be reported.)
  - vi. Waste water reuse reporting shall include the following:

    - A. A statement that, during the reporting period, all waste water was used only as specified, and for the uses specified in Order No. R4-2007-0063.
    - B. Approximate acreage and locations receiving reused water for irrigation.
    - C. Analytical results for waste water shall be submitted with the corresponding monthly report. If a waste water source was not sampled or measured during the reporting period, the reason for the omission shall be given. If no waste water reused from a source, a statement to that effect shall be provided in lieu of analyses.

**VENTURA REGIONAL SANITATION DISTRICT  
TOLAND ROAD LANDFILL  
MONITORING AND REPORTING PROGRAM NO. 5644**

**ORDER NO. R4-2007-0063**

- D. Records of operational problems, mechanical breakdowns, and diversions to emergency storage or disposal associated with any violations, or potential violations of Order No. R4-2007-0063.
  - E. Any corrective actions taken.
  - F. If all or a portion of the waste water was not reused because of a failure to meet the limits specified in Order No. R4-2007-0063, the report shall so state and identify the disposition of the effluent.
- vii. The Discharger shall report all unacceptable wastes inadvertently received at this site and their disposition. The following details shall be included:
- A. The source (if known), including the hauler, of the unacceptable wastes and date received and/or discovered.
  - B. Identification of waste (if known) and the amount of waste.\
  - C. The name and address of the hauler who removed the waste from this site.
  - D. The ultimate point of disposal for the waste.
  - E. The Discharger's actions to prevent recurrence of the attempted depositing of unacceptable wastes by this source or individual.
  - F. If no unacceptable wastes were received (or discovered) during the month, the report shall so state.
- i. In addition to reporting the quantity of dewatered sewage sludge deposited and/or biosolids reused each month, quarterly samples of sludge and/or processed biosolids shall be obtained and analyzed as follows:
- i. A random sludge/biosolids sample shall be collected.
  - ii. Biosolids shall also be analyzed for the following parameters: pH, total solids content (%), total nitrogen (mg/kg), fecal coliform (MPN/gram), ammonia nitrogen, as N (mg/kg), total phosphorus, as P (mg/kg), total potassium (mg/kg), semi-volatile organics, arsenic (mg/kg), cadmium (mg/kg), copper (mg/kg), lead (mg/kg), mercury (mg/kg), molybdenum (mg/kg), nickel (mg/kg), selenium (mg/kg), zinc (mg/kg).

**VENTURA REGIONAL SANITATION DISTRICT  
TOLAND ROAD LANDFILL  
MONITORING AND REPORTING PROGRAM NO. 5644**

**ORDER NO. R4-2007-0063**

- iii. An extraction solution of the sludge/biosolids shall be prepared for analyses using the Waste Extraction Test (WET) Method as contained in Title 22, California Code of Regulations, section 66261.24, appendix II. All testing shall be done on 48-hour extracts. The extracts shall be analyzed for the Soluble Threshold Limit Concentration (STLC) for the following parameters: polychlorinated biphenyls (PCBs), trichloroethylene (TCE), perchloroethylene (PCE), carbon tetrachloride, DDT, DDE, DDD, Endrin, Lindane, Methoxychlor, Toxaphene, 2,4-D and 2,4,5-TP (Silvex), Aroclors, and Aldrin/Dieldrin.
  - iv. These results shall be reported in the corresponding monthly report.
  - v. If the Discharger performs sludge and/or biosolids analyses more frequently than required by this program, the results of those analyses shall be included in the corresponding monthly report.
- j. The results of the waste-load-checking program shall be approved by the California Integrated Waste Management Board and reported in the monthly waste disposal reports. The Discharger shall report all hazardous or unacceptable (to this site) wastes inadvertently received at this site and their disposition. The following details shall be included:
- i. The source (if known), including the hauler, of the unacceptable wastes and dated received and/or discovered.
  - ii. Identification of waste (if known) and the amount of waste.
  - iii. The name and address of the hauler who removed the waste from this site.
  - iv. The ultimate point of disposal for the waste.
  - v. The Discharger's actions to prevent recurrence of the attempted depositing of unacceptable wastes by this source or individual (if applicable).
  - vi. If no unacceptable wastes were received (or discovered) during the month, the report shall so state.

**VENTURA REGIONAL SANITATION DISTRICT  
TOLAND ROAD LANDFILL  
MONITORING AND REPORTING PROGRAM NO. 5644**

**ORDER NO. R4-2007-0063**

- k. Map(s): Map(s) or aerial photograph(s) showing waste disposal and monitoring locations, relative physical features, and groundwater contours to the greatest degree of accuracy possible.
  5. If the Discharger performs analyses for any parameter more frequently than required by this M&RP using approved analytical methods, the results of those analyses shall be included in the corresponding monitoring report.
  6. The Discharger shall submit an annual summary report to the Regional Board covering the previous monitoring year. This report shall contain:
    - a. A graphical presentation of analytical data [27 CCR, section 20415(e)(14)]: 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 such graph shall plot the concentration of one or more constituents over time for a given monitoring point, at a scale appropriate to show trends or variations in water quality. The graphs shall plot each datum, rather than plotting mean values. For any given constituent or parameter, the scale for background plots shall be the same as that used to plot downgradient data. On the basis of any aberrations noted in the plotted data, the Regional Board's Executive Officer may direct the Discharger to carry out a preliminary investigation [27 CCR, section 20080(d)(2)], the results of which will determine whether or not a release is indicated;
    - b. All monitoring analytical data obtained during the previous semiannual monitoring and reporting periods, presented in tabular form;
    - c. Data obtained relating to biosolids application during the previous year, including:
      - i. Application Information
        - Quantity of Biosolids Applied
        - Dry tons
- Constituent Concentrations (Each Source)
- arsenic  
cadmium  
copper  
lead  
mercury

**VENTURA REGIONAL SANITATION DISTRICT  
TOLAND ROAD LANDFILL  
MONITORING AND REPORTING PROGRAM NO. 5644**

**ORDER NO. R4-2007-0063**

molybdenum  
nickel  
selenium  
zinc  
total solids percent content  
total nitrogen  
fecal coliform (MPN/gram)  
ammonia nitrogen, as N  
total phosphorus, as P  
total potassium  
PCBs, aroclors, aldrin/dieldrin  
semi-volatile organics

ii. Site Map

Provide a site map identifying the area(s) of application clearly showing each area where biosolids have been applied.

- d. A comprehensive discussion of the compliance record, and the result of any corrective actions taken, or planned, which may be needed to bring the Discharger into full compliance with the WDRs.

7. Contingency Reporting

- a. The Discharger shall report by telephone to Regional Board staff, any seepage from the disposal area immediately after it is discovered. A written report shall be filed with the Regional Board within seven days of the verbal report, containing at least the following information:

- i. A map showing the location(s) of seepage;
- ii. An estimate of the flow rate;
- iii. A description of the nature of the discharge (e.g., all pertinent observations and analyses); and
- iv. Corrective measures underway or proposed.

- b. Should the initial statistical comparison or non-statistical comparison indicate, for any monitoring parameter or COC, that a release is tentatively identified, the Discharger shall immediately verbally notify Regional Board staff as to the monitoring point(s) involved, shall provide written notification by certified mail within seven days of such determination [27 CCR, section 20420(j)(1)], and shall

**VENTURA REGIONAL SANITATION DISTRICT  
TOLAND ROAD LANDFILL  
MONITORING AND REPORTING PROGRAM NO. 5644**

**ORDER NO. R4-2007-0063**

carry out a discrete retest. If the retest confirms a release, the Discharger shall carry out the requirements of Item No. II.7.d of this M&RP. In any case, the Discharger shall inform the Regional Board of the outcome of the retest as soon as the results are available, and follow up with written results submitted by certified mail within seven days of completing the retest.

- c. If either the Discharger or the Regional Board determines that there is significant physical evidence of a release [27 CCR, section 20385(3)], the Discharger shall immediately notify the Regional Board of this fact by certified mail (or acknowledge the Regional Board's determination of a potential release) and shall carry out the requirements of Item No. II.7.d of this M&RP for all potentially-affected monitored media.
- d. If the Discharger concludes that a release has been discovered:
  - i. If this conclusion is not based upon direct monitoring of the monitoring parameters or COCs, the Discharger shall, within thirty days, sample for all COCs at all monitoring points and submit them for laboratory analysis. Within seven days of receiving the laboratory analytical results, the Discharger shall notify the Regional Board, by certified mail, of the concentration of all COCs at each monitoring point. Because this scan is not to be tested against background, only a single datum is required for each COC at each monitoring point [27 CCR, section 20420(k)(1)];
  - ii. The Discharger shall, within 90 days of discovering a release, submit a revised Report of Waste Discharge proposing an Evaluation Monitoring Program meeting the requirements of 27 CCR, section 20420(k)(5) and 20425; and
  - iii. The Discharger shall, within 180 days of discovering a release, submit a preliminary engineering feasibility study meeting the requirements of 27 CCR, section 20420(k)(6).
- e. Any time the Discharger concludes, or the Regional Board Executive Officer directs the Discharger to conclude, that a liquid release from the landfill has extended beyond the facility boundary, the Discharger shall so notify all persons who either own or reside upon the land (affected persons) that directly overlies any part of the plume.
  - i. Initial notification to affected persons shall be accomplished within fourteen days of making this conclusion and shall include a description of the Discharger's current knowledge of the nature and extent of the release; and



**VENTURA REGIONAL SANITATION DISTRICT  
TOLAND ROAD LANDFILL  
MONITORING AND REPORTING PROGRAM NO. 5644**

**ORDER NO. R4-2007-0063**

- ii. Subsequent to initial notification, the Discharger shall provide updates to all affected persons, including any newly affected persons, within fourteen days of concluding there has been any material change in the nature or extent of the release.
8. Each monitoring report shall contain the following statement:

"I declare under the penalty of law that I have personally examined and am familiar with the information submitted in this document, 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 a fine and imprisonment for knowing violations."
9. A duly authorized representative of the Discharger may sign the documents if:
  - a. The authorization is made in writing by the person described above;
  - b. The authorization specified an individual or person having responsibility for the overall operation of the regulated disposal system; and
  - c. The written authorization is submitted to the Executive Officer.
10. All reports required in this M&RP shall be addressed to:

California Regional Water Quality Control Board  
Los Angeles Region  
320 W. 4<sup>th</sup> Street, Suite 200  
Los Angeles, California 90013  
ATTN: Information Technology Unit
11. The Discharger shall inspect the Landfill in accordance with the following schedule, and record, at a minimum, Standard Observations.
  - a. During the wet season (October through April), following each storm that produces storm water runoff, or on a monthly basis if no storm produces runoff during the month.
  - b. During the dry season, a minimum of one inspection shall be performed every three months.
  - c. Standard Observations during a site inspection shall include at least the following:

**VENTURA REGIONAL SANITATION DISTRICT  
TOLAND ROAD LANDFILL  
MONITORING AND REPORTING PROGRAM NO. 5644**

**ORDER NO. R4-2007-0063**

- i. Evidence of any surface water leaving or entering the Unit, estimated size of affected area, and estimated flow rate (show affected area on map).
- ii. Evidence of odors; presence or absence, characterization, source, and distance of travel from source.
- iii. Evidence of erosion and/or of exposed refuse.
- iv. Inspection of all storm water discharge locations for evidence of non-storm water discharges during dry seasons, and integrity during wet seasons.
- v. Evidence of ponded water at any point on the waste management facility (show affected area on map).
- vi. Compliance with the Storm Water Pollution Prevention Plan, insuring that the terms of the General NPDES Stormwater Permit are properly implemented.
- vii. Integrity of all drainage systems.

**III. SAMPLING AND ANALYTICAL PROCEDURES**

1. Sample collection, storage, and analysis shall be performed according to the most recent version of standard U.S. Environmental Protection Agency (USEPA) methods, and in accordance with an approved sampling and analysis plan. Proper chain of custody procedures shall be used. Water and waste analysis shall be performed by a laboratory approved for these analyses by the State of California. Specific methods of analysis must be identified. If methods other than USEPA-approved methods or standard methods are used, the exact methodology must be submitted for review and must be approved by the Regional Board's 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. All monitoring instruments and equipment shall be properly calibrated and maintained to ensure accuracy of measurements. In addition, the Discharger is responsible for seeing that the laboratory analysis of all samples from monitoring points and background monitoring points meets the following restrictions:
  - a. The methods and analysis and the detection limits used must be appropriate for the expected concentrations. For detection monitoring of any constituent or parameter that is found in concentrations which produce more than 90% non-

**VENTURA REGIONAL SANITATION DISTRICT  
TOLAND ROAD LANDFILL  
MONITORING AND REPORTING PROGRAM NO. 5644**

**ORDER NO. R4-2007-0063**

numerical determinations (i.e. "trace" or "ND") in data from background monitoring points for that medium, the analytical methods having the lowest facility-specific MDL shall be selected from among those methods which would provide valid results in light of any matrix effects involved.

- b. Trace results falling between the MDL and the facility-specific PQL, shall be reported as such, and shall be accompanied both by the estimated MDL and PQL values for that analytical run and by an estimate of the constituent's concentration.
- c. MDLs and PQLs shall be derived by the laboratory for each analytical procedure, according to State of California laboratory accreditation procedures. These MDLs and PQLs shall reflect the detection and quantitation capabilities of the specific analytical procedure and equipment used by the lab, rather than simply being quoted from USEPA analytical method manuals. If the lab suspects that, due to a change in matrix or other effects, the true detection limit or quantitation limit for a particular analytical run differs significantly from the laboratory-derived MDL/PQL values, the results shall be flagged accordingly, along with an estimate of the detection limit and quantitation limit actually achieved.
- d. All Quality Assurance / Quality Control (QA/QC) data shall be reported, along with the sample results to which it applies, including the method, equipment, and analytical detection limits, the recovery rates, an explanation of any 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 the analyses. Sample results shall be reported unadjusted for blank results or spike recovery.
- e. Upon receiving written approval from the Regional Board's Executive Officer, an alternative statistical or non-statistical procedure can be used for determining the significance of analytical results for a constituent that is a common laboratory contaminant (i.e., methylene chloride, acetone, diethylhexyl phthalate, and di-n-octyl phthalate) during any given reporting period in which QA/QC samples show evidence of laboratory contamination for that constituent. Nevertheless, analytical results involving detection of these analytes in any sample shall be reported and flagged for easy reference by Regional Board staff.
- f. Unknown chromatographic peaks shall be reported, along with an estimate of the concentration of the unknown analyte. When unknown peaks are encountered, second column or second method confirmation procedures shall be performed to attempt to identify and more accurately quantify the unknown analyte.
- g. In cases where contaminants are detected in QA/QC samples (i.e. field, trip, or lab blanks), the accompanying sample results shall be appropriately flagged.

**VENTURA REGIONAL SANITATION DISTRICT  
TOLAND ROAD LANDFILL  
MONITORING AND REPORTING PROGRAM NO. 5644**

**ORDER NO. R4-2007-0063**

- h. The MDL shall always be calculated such that it represents a concentration associated with a 99% reliability of a non-zero result.
2. For the purposes of this M&RP, any methods and analysis and detection limits used that are alternative to the MDL/PQL must be approved by the Executive Officer. For example, Minimum Level (ML) and Reporting Limit (RL), as described in Attachment 1, can be functional equivalents to MDL and PQL with regard to reporting and statistical evaluation requirements. For this purpose, MLs and RLs shall be derived by the laboratory for each analytical procedure, according to the SWRCB's Policy for Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California (the State Implementation Policy or SIP) and the State of California's laboratory accreditation procedures.
3. Thirty-Day Sample Procurement Limitation: For any given monitored medium, the samples taken from all monitoring points to satisfy the data analysis requirements for a given reporting period shall all be taken within a span of 30 days, and shall be taken in a manner that insures sample independence to the greatest extent feasible [27 CCR, section 20415(e)(12)(B)]. Groundwater sampling shall also include an accurate determination of the groundwater surface elevation and field parameters (temperature, pH, electrical conductivity, turbidity) for that monitoring point [27 CCR, section 20415(e)(13)]; groundwater elevations taken prior to purging the well and sampling for monitoring parameters shall be used to fulfill groundwater flow rate/direction analyses. Statistical or non-statistical analysis shall be carried out as soon as the data is available, in accordance with Statistical and Non-Statistical Analyses of Sample Data during a Detection Monitoring Program of this M&RP.
4. The Discharger shall sample all monitoring points in accordance with the sampling schedule given under Item No. II.3 of this M&RP, taking enough samples to qualify for the most appropriate test under Statistical and Non-Statistical Analyses of Sample Data during a Detection Monitoring Program of this M&RP.

These records and reports are public documents and shall be made available for inspection during normal business hours at the office of the California Regional Water Control Board, Los Angeles Region.

Ordered by \_\_\_\_\_  
Tracy Egoscue  
Executive Officer

December 6, 2007

VENTURA REGIONAL SANITATION DISTRICT  
TOLAND ROAD LANDFILL  
MONITORING AND REPORTING PROGRAM NO. 5644

ORDER NO. R4-2007-0063

**TABLE 1:  
LANDFILL MONITORING PARAMETERS AND CONSTITUENTS OF CONCERN**

Monitoring Parameters		Supplemental Parameters	Other COCs
Indicator Parameters			
<b>Inorganic Parameters:</b> Alkalinity, total Ammonia, nitrogen Chemical oxygen demand (COD) Chloride Potassium, total Sulfate Nitrate-N Total dissolved solids (TDS) Total organic carbon (TOC)	Bromochloromethane Bromodichloromethane Bromoform Bromomethane c-1,2-Dichloroethene c-1,3-Dichloropropene Carbon Disulfide Carbon Tetrachloride Chlorobenzene Chloroethane Chloroform Chloromethane Dibromochloromethane Dibromomethane Dichlorodifluoromethane Ethylbenzene Iodomethane Methylene chlorideo- Xylene p/m-Xylene Styrene t-1,2-Dichloroethene t-1,3-Dichloropropene t-1,4-Dichloro-2-Butene Tetrachloroethene Toluene Trichloroethene Trichlorofluoromethane Vinyl Acetate Vinyl Chloride	Bicarbonate (as CaCO <sub>3</sub> ) Boron, total Bromide Calcium, total Carbon dioxide, lab Cyanide Fluoride Iron, total Magnesium, total Manganese, total pH, field Sodium, total Sulfide Specific conductance, field Temperature, field Turbidity, field Total organic halides (TOX) Semi-Volatile Organics	<b>Metals:</b> Antimony Arsenic Barium Beryllium Chromium, total Hexavalent Chromium Cobalt Copper Lead Mercury Nickel Selenium Silver Thallium Vanadium Zinc  <b>Any other pollutants that are detected and confirmed in landfill leachate</b>
<b>Appendix I VOCs:</b> 1,1,1,2-Tetrachloroethane 1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,2,3-Trichloropropane 1,2-Dibromo-3-chloropropane 1,2-Dibromoethane 1,2-Dichlorobenzene 1,2-Dichloroethane 1,2-Dichloropropane 1,4-Dichlorobenzene 2-Butanone 2-Hexanone 4-Methyl-2-Pentanone Acetone Acrylonitrile Benzene	<b>Other Organics:</b> Dichlorodifluoromethane (DCDFM) Methyl tertiary butyl ether (MTBE) 1,4-Dioxane		

FIGURE 1:  
 TOLAND ROAD LANDFILL - MONITORING WELL LOCATION MAP

