

California Regional Water Quality Control Board
North Coast Region

MONITORING AND REPORTING PROGRAM
Order No. R1-2011-0033

FOR

CITY OF FORTUNA

MUNICIPAL WASTEWATER TREATMENT FACILITY (WWTF)
LAND APPLICATION OF EXCEPTIONAL QUALITY (EQ)
CLASSIFIED BIOSOLIDS DERIVED COMPOST MATERIAL
AS A SOIL AMENDMENT

WDID No. 1B09124RHUM

Humboldt County

California Water Code section 13267 authorizes the Regional Water Quality Control Board (Regional Water Board) to require technical and monitoring reports. This monitoring and reporting program establishes monitoring and reporting requirements, which implement the state regulations. Any person failing to furnish technical or monitoring reports or falsifying any information therein is guilty of a misdemeanor, and may be subject to civil liability. (Water Code section 13268)

BIOSOLIDS MONITORING

Biosolids generated during the treatment of municipal wastewater at the City of Fortuna WWTF shall be processed, sampled and handled in accordance with the Biosolids Management Plan (Management Plan).

To both ensure that the processed biosolids meet EQ biosolids standards as per the Code of Federal Regulations title 40 Part 503¹, *Standards for the Use or Disposal of Sewage Sludge* (40 CFR Part 503) and to measure the nutrient load of the biosolids derived compost material prior to land application the City of Fortuna (Discharger) shall implement the following sampling schedule for biosolids:

¹ All further statutory references are to title 40 Part 503 of the Code of Federal Regulations unless otherwise indicated.

Table 1 Biosolids Sampling Schedule

Constituent	Units	Frequency	Timing of Sampling
40 CFR 503 metals	mg/kg-dry	Quarterly	Prior to composting
Nitrate Nitrogen	ug/g-dry	Quarterly	Post composting and screening
Ammonia Nitrogen	ug/g-dry	Quarterly	Post composting and screening
Organic Nitrogen	ug/g-dry	Quarterly	Post composting and screening
Total Solids	percent	Quarterly	Post composting and screening
Specific Gravity		Quarterly	Post composting and screening

ANNUAL MONITORING REPORT

The Discharger shall provide an Annual Report to the Regional Water Board regarding implementation of the Management Plan during the previous year. The Annual Report shall be submitted, so that it is received by the Regional Water Board no later than February 19th of each year, and shall include, but not be limited to the following:

1. A description of the activities that took place during the previous year;
2. The total number of dry metric tons of EQ biosolids derived compost material processed at the WWTF and the total number of dry metric tons of EQ biosolids derived compost material that were: a) land applied as soil amendment; b) released to ratepayers for private use and; c) released for sale through a commercial fertilizer enterprise;
3. Laboratory analytical data for constituents listed in Table 1 of this Order;
4. Copies of composting time and temperature logs used to document achievement of 40 CFR Part 503, Class A pathogen reduction and vector attraction reduction criteria;
5. Completed copies of the Land Owner Agreements;
6. A copy of the notification letter and a list of the parties who received the notification letter regarding the application of EQ biosolids derived compost material to agriculture land;
7. A scaled map of each of the sites where EQ biosolids derived compost materials were applied during the previous year. The map(s) shall display 10-foot contours and include parcel boundaries; adjacent public roadways; equipment access point(s); loading and unloading area(s); application area boundaries; all set backs identified in section 4.2 of the Management Plan; the location of domestic and agricultural water wells on the application site and adjoining parcels; the location of identified sensitive plant and/or animal species

- and approved mitigation measures; and the location of water bodies including wetlands, drainage ditches, creeks, and ponds;
8. Records of the approximate depth to groundwater at each agricultural land application site and the method used to determine site specific data;
 9. Completed copies of the "*Worksheet 1: Agronomic Rate Calculation Worksheet for Nitrogen*" (Attachment A) developed during the previous year;
 10. Completed copies of "*Worksheet 2: Site Specific Compost Volume Calculation Worksheet for Nitrogen*" (Attachment B) for each of the agricultural land application site; and
 11. Completed copies of the "*Wind Speed Record During Land Application Operations*" Form (Attachment C).
 12. Copies of correspondence with California Department of Fish and Game (DFG) staff regarding the presence of sensitive plant and/or animal species on sites where EQ biosolids derived compost materials were applied during the previous year and DFG staffs' approval of proposed mitigation measures.

CERTIFICATION

All reports required by this Monitoring and Reporting program or other information requested by the Regional Water Board, or the State Water Resources Control Board for compliance determination with the conditions of the Conditional Waiver, Order No. R1-2011-0032 shall be signed by the Executive Officer or a duly authorized representative of that person. Any person signing a document under this requirement shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Ordered by: _____

Catherine Kuhlman
Executive Officer

May 5, 2011