

Landfill Methane Regulation: Reporting Tools Training

Training session #1: January 25, 2022

Training session #2: January 26, 2022

Training session #3: January 31, 2022

Training agenda

- Welcome + introductions
- Overview of LMR reporting requirements
- New report templates
 - Annual Reports
 - Waste-in-Place + Heat Input Capacity Reports
- Questions + discussion



Participation

- Questions?
 - Select the "Raise Hand" button in the GoToWebinar toolbar which is shown as a hand icon.
 - When staff calls your name, please
 "Unmute" yourself by clicking the red
 button shown as a speaker icon. Once
 unmuted the icon will turn white and the
 slash will disappear, then proceed to
 introduce yourself.



Unmute

Raise Hand



Overview - CARB's Landfill Methane Regulation (LMR)

- Adopted as a discrete early action measure under AB
 32; in effect since 2010
- Established a stringent statewide standard for installing a gas collection and control system
- Requires extensive monitoring to ensure gas collection and control systems are maintained and operated to minimize methane emissions
- Estimated to capture at least 75% of landfill gas



Overview - LMR applicability and exemptions

- The LMR applies to all MSW landfills that received solid waste after January 1, 1977
- The following landfill types are exempt:
 - Landfills that receive only hazardous waste
 - Landfills that contain only C&D, inert, or non-decomposable wastes;
 - Landfills that are closed with less than 450,000 tons of waste-inplace



Overview - Regulatory status

Reporting requirements depend primarily on whether a landfill has a gas collection and control system (GCCS):

- 1. Uncontrolled landfills are those with passive venting systems, carbon adsorption systems, or no collection/controls of any kind
 - LMR Section 95463 Determination for Installing a GCCS
- 2. Controlled landfills are required to operate a GCCS and conduct routine monitoring to minimize methane emissions
 - LMR Sections 95464 through 95476



Overview - report types

Waste-in-Place Report

- Uncontrolled, active MSW Landfills with less than 450,000 tons of waste-in-place (WIP)
- Sections 95463(a) and 95470(b)(4)

Heat Input Capacity Report

- Uncontrolled, active MSW Landfills with 450,000 tons of waste-in-place or greater
- Sections 95463(b), 95470(b)(5), and 95471(b)

Annual Report

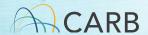
- Controlled MSW Landfills
- Section 95470(b)(3)



Overview - annual reporting due date

Landfill Reports must be submitted annually, by March 15, with data covering the prior calendar year

- Landfills in Air Districts that have not entered into an MOU must submit the report directly to CARB
- Landfills in Air Districts that have entered into an MOU should submit to both their Air District and CARB
 - https://ww2.arb.ca.gov/resources/documents/lmr-mou-air-districts



Overview - reporting vs. recordkeeping

- New templates cover reporting requirements specified in LMR section 95470(b)
- In addition, landfill owners and operators are required to keep records specified in LMR section 95470(a)



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New report templates



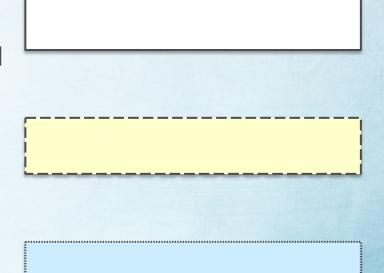
New report templates - purpose

- Simplify reporting process for reporting entities
 - Report complete information
 - Report only what is required by the LMR
 - Facilitate reporting information to U.S. EPA
- Increase efficiency for CARB and districts
 - Improve ability to find and interpret data
 - Enhances CARB and district ability to assist with compliance



New report templates - format

- Enter mandatory LMR-required information and data in white input boxes with solid borders also labeled in bold font
- Enter additional information (optional) to support the interpretation of the required data in yellow input boxes with dashed borders
- Enter additional information required under the Federal Plan to implement the U.S. EPA Emission Guidelines (Annual Reports only) in blue input boxes with dotted borders





New report templates – supporting documentation

Other required information that is not included in the workbook should be submitted as a separate document(s) in addition to the completed report template

- Supporting documentation may include:
 - Topographic maps
 - CARB's Landfill Gas Tool
 - Other supporting documentation such as Closure Notifications,
 Alternative Compliance Option requests (ACO), updated Design Plans
 - Explanations for unforeseeable events or atypical situations that warrant additional information



New report templates – how to submit

- Save the completed template as an Excel Workbook (file type ".xlsx") include the Reporting Year and Landfill Name in the filename, for example:
 - 2021 ABC Landfill LMR Annual Report
 - 2021 ABC Landfill LMR WIP_HIC Report
- If you have other supporting documentation, please submit these as separate attachments; include the Reporting Year and Landfill Name in the filename
- Submit reports and any supporting documentation to <u>LMR@arb.ca.gov</u> – or contact staff if you have files that are too large to email, an alternative secure method will be provided



New report templates - demonstration



LMR links and contact information

LMR report templates and user guide
https://ww2.arb.ca.gov/resources/documents/landfill-methane-regulation-report-templates

Contact us with questions or feedback LMR@arb.ca.gov

Stay connected: Landfill Methane Regulation Reporting
https://public.govdelivery.com/accounts/CARB/subscriber/new?
topic_id=LMR-report

