



Monterey Regional Waste Management District

Turning Waste Into Resources

Since 1951

California Air Resources Board (CARB) and
Monterey Bay Air Resources District (MBARD)

Landfill Inspections Update

Board Meeting
December 4, 2020

LANDFILL INSPECTIONS - BACKGROUND



PURPOSE: Monitor for Fugitive Landfill Gas (LFG) Emissions

REQUIREMENT: Minimize fugitive emissions from landfill

- **MBARD Inspection = Reviewing Quarterly Surface Emission Monitoring (SEM) Survey Reporting for 2019 & 2020**
- **CARB/MBARD INSPECTION OCCURRED ON 9-16-2020**
 - CalRecycle/CARB/MBARD inspection of Composting OPS
 - CARB/MBARD inspection of Landfill's Gas Wells

INITIAL FINDINGS - SUMMARY

- **MBARD Inspection = Reviewing Quarterly Surface Emission Monitoring (SEM) Survey Reporting for 2019 & 2020**
 - Reports lack documentation of corrective measures to respond to any survey exceedance
 - Violation issued for 2019 reporting year
 - 2020 Reporting year under review & additional information requested from MRWMD - *(potential for a violation)*
- **CARB/MBARD INSPECTION 9-16-2020**
 - 17 LFG Wells were monitored
 - 9 of 17 LFG Wells had emissions that exceeded the regulatory threshold (500 ppm) - *(potential for a violation)*

STATUS OF ACTION PLAN *(In Progress)*

- **MBARD – QUARTERLY SEM REPORTING**
 - Submitted requested information on 11/13/2020
 - Completed sUAS aerial drone monitoring
 - Joined CARB Pilot Study of aerial flyover monitoring on 11/02/2020
 - CARB Pilot Study aerial flyover completed – 11/12/20
 - Made internal improvements in gas well monitoring

STATUS OF ACTION PLAN *(In Progress)*



- **CARB/MBARD INSPECTION**

- Submitted requested information on 11/06/2020
- Installed clay and/or membrane liner on the 9 wells having surface emission exceedances
- Monitored remaining wells to assess if there are surface emission exceedances

UPCOMING EVENTS

- **ACTION PLAN** (*In Progress*)

- Conduct 4th Quarter SEM survey – early December
- Review SEM survey results & define action plan to respond to any surface emission exceedances
- Implement corrective action measures to address any surface emission exceedances
- Continued installation of membrane liner on existing gas wells with surface emissions exceedances
- Begin installation of ~25 new vertical gas wells with membrane enhanced upper bore seal – 12/09/2020
- Continued increased monitoring of gas wells

Sustainable Excellence – Managing Waste As A Resource



**MONTEREY REGIONAL
WASTE MANAGEMENT
DISTRICT**

PILLARS OF SUSTAINABILITY

Our mission is to Turn Waste Into Resources in the most cost effective and environmentally sound manner to benefit the community.

PEOPLE



An engaged and talented workforce allows us to pursue the District's mission.

Utilize an intentional and mindful process in the recruitment, development, and growth of our people.

Build a high performance, safety-oriented culture.

Promote the health and well being of our employees.

FINANCE



Strike a balance between community needs, cost containment, and environmental protection.

Develop a sustainable revenue structure that provides funding for the programs and services we provide to the community.

Follow and update the District's alternative funding options.

Pursue strategic partnerships that allow for increased efficiencies and revenues, decreased costs, and enhanced environmental benefits.

ENVIRONMENT



The District's environmental stewardship promotes a sustainable community.

Support member agencies with implementation of state-of-the-industry franchise collection contracts.

Construct the MRF improvement project to increase diversion.

Promote the beneficial use of biogas.

COMMUNITY



District services and programs to be responsive to the unique needs of our community.

Ensure the effectiveness of the District's programs, services, and strategic partnerships.

Strengthen the District's identity in the community.

Build upon our coordinated education and outreach programs between District and community partners.

INNOVATION



Early adopters of programs and processes that best serve the needs of the District and the community.

Track industry trends through involvement and education.

Develop a comprehensive and innovative plan to maximize use of technology.

Maximize opportunities to become a carbon-neutral energy producer.