

AIR ISSUES & REGULATIONS COMMITTEE

A Committee of the Bay Area Clean Water Agencies

BACWA Annual Members Meeting January 10, 2020

AIR Issues & Climate Adaptation

- Air Issues & Regulations
 - SB 1383: Short-Lived Climate
 Pollutant Reduction
 - BAAQMD Proposed Regulation 13:
 Climate Pollutants



- AB 617: Community Air Protection Program
- Climate Adaptation
 - State Water Board
 - CA Coastal Commission
 - Bay Area Climate Adaptation Network





SB 1383: Short-Lived Climate Pollutant Reduction Regulation (effective 2022)

- 40% methane reduction by 2030 (relative to 2013 levels)
- Organic waste diversion from landfills (includes biosolids, digestate, and sludges)
 - 50% by 2020 (relative to 2014 levels)
 - 75% by 2025 (relative to 2014 levels)
- CEC/CPUC to incentivize biogas production/use



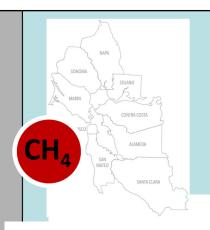




Formal rule-making concludes January 18th: Proposed SLCP Reduction Regulations

- Expecting the formal draft regulation to:
 - Limit/prohibit local ordinances preventing biosolids land application
 - Credit biogas generated by diverted organic waste
 - Consider disposition of organic waste to processes other than anaerobic digestion or composting as "landfill disposal"
- Next Steps
 - Adoption by January 18, 2020
 - State to start enforcement on jurisdictions January 1, 2022
 - Jurisdictions to start enforcement January 1, 2024





Bay Area AQMD Regulation 13: Climate Pollutants Rule Development

Rules a	nd Reg	ulations
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GHGs

Regulation 13: Climate Pollutants

Rule 13-1: Significant Methane Releases

CH₄

Rule 13-2: Organic Material Handling

CH₄

Rule 13-3: Composting Operations

CH₄

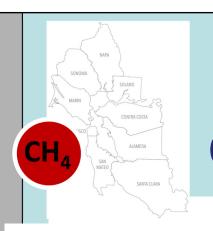
Rule 13-4: Sewage Treatment & AD*

CH₄, N₂O

Rule 13-5: Hydrogen Plants

CH₄

Rule 8-34: Solids Waste Disposal Sites*



Bay Area AQMD Regulation 13: Climate Pollutants Rule Development

Rules and Regulations	GHGs	Odors	VOCs	Toxics			
Regulation 13: Climate Pollutants							
Rule 13-1: Significant Methane Releases	CH ₄	Yes	Yes	Yes			
Rule 13-2: Organic Material Handling	CH ₄	Yes	Yes	Yes			
Rule 13-3: Composting Operations	CH ₄	Yes	Yes	Yes			
Rule 13-4: Sewage Treatment & AD*	CH ₄ , N ₂ O	Yes	Yes	Yes			
Rule 13-5: Hydrogen Plants	CH ₄	Yes	Yes	Yes			
Rule 8-34: Solids Waste Disposal Sites*							



Bay Area AQMD Regulation 13: Climate Pollutants Rule Development

Rule	Next Wkshp	Board Presentation	Notes
13-1: Significant Methane Releases	TBD	TBD	Tabled indefinitely, focus on source-specific rules firstth
13-2: Organic Waste Handling	None	Q2 2020	Focus on organic material handling: Material Recovery Facilities, Transfer Facilities, Chip & Grind Facilities.
13-3: Composting Operations	Q2 2020	Q4 2020	Draft language in development.
13-4: Sewage Treatment & Anaerobic Digestion	Q2 2020	Q4 2020 (likely 2021)	BACWA requested involvement to provide input on draft language and workshop report. Draft rule to consider biogas produced/collected, minimizing other pollutants, flare requirements, record keeping, reporting requirements, etc.
13-5: Hydrogen Plants	Q1 2019	Q3 2020	Focus on hydrogen production at petroleum refineries.
8-34: Solid Waste Disposal (Landfills)	Q2 2020	Q4 2020	Focus on methane from landfills – BAAQMD to align with state and federal requirements.

Rule 11-18: Risk Reduction from Air Toxic Emissions at <u>Existing</u> Facilities

- Purpose:
 Protect public from toxic air contaminants at existing facilities
- Phased implementation based on cancer prioritization –
 WWTPs in Phase 2 (starting in 2020)
- **ISSUE:** Emission factors are outdated (based on old influent data) and may result in erroneously high Prioritization Scores
- If WWTP triggers Rule, it requires:
 - Health Risk Assessments (18-month process)
 - Risk Reduction Plan development (18-month process)
 - Implementation of Risk Reduction Measures
 (5 years + 5 years to implement)



Rule 11-18: Risk Reduction from Air Toxic Emissions at <u>Existing</u> Facilities

Actions to Monitor:

- Final implementation schedule from BAAQMD
- Watch for email from BAAQMD, will send data requests in quarterly batches – expect Phase II sites with Priority Score >100 to be first (starting in 2020)
- Plants expected to respond to data request (2-4 months)
- AIR Emissions Inventory Subcommittee
 - Developed a data collection and emissions inventory spreadsheet template (for consistency and ease of responding to BAAQMD)

Thank you Cameron Kostinger Mumper (Sunnyvale) and Samantha Engelage (Palo Alto)!!

Still need to address emission factors...



AB 617: <u>Proposed Regulation Criteria Air</u> Pollutant & Toxic Air Contaminant <u>Reporting</u>

- CARB to harmonize community air monitoring, reporting, & local emissions reduction programs for CAPs and TACs (and GHGs).
 - Assess community exposure
 - Establish criteria for air monitoring
 - Identify source contributions and strategies for emissions reduction
- October 2019
 - Establish emission reduction targets,
 schedule, & enforcement programs
 - Air Districts to submit annual progress reports to CARB in 2019 for 2018
- Local air districts are moving faster!
 (i.e., BAAQMD Rule 11-18)



Air Issues & Regulations Committee

A Committee of the Bay Area Clean Water Agencies 10

AB 617: <u>Proposed Regulation Criteria Air</u> Pollutant & Toxic Air Contaminant <u>Reporting</u>

- Proposed applicability thresholds for <u>stationary sources</u>:
 - Subject to GHG Mandatory Reporting Regulation
 - Emit 250+ tpy of a nonattainment criteria air pollutant or its precursor
 - Receives an "elevated" Air Toxics Hot Spots prioritization based on cancer or non-cancer health impacts
 - Sector list, including 10 MGD WWTPs w/ covered primary systems (>5 MGD uncovered primary systems) to report the complete AB 2588 <u>list</u> of toxic compounds (over 600 compounds) on an annual basis



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Threshold to return in a future phase of implementation



AB 617: <u>Proposed</u> Regulation Criteria Air Pollutant & Toxic Air Contaminant <u>Reporting</u>

Actions:

- Meeting with CARB leads of AB 617 and AB 2588 updates AB 617 Regulation and AB 2588 Program updates go to board end of 2020, early 2021
- Participating in AB 2588 Program updates to weigh in on the toxics list expansion (another 600+ compounds) and testing/modeling methods
- Exploring development/adoption of a short-list of toxics for WW sector
- Discussing performing an updated pooled emissions estimating effort
- Collaborating with CASA to draft a state-wide approach (for a pooled emissions study) to update default emission factors for the short-list of compounds

State actions to adapt water infrastructure to impacts of climate change

- State Water Board
- California Coastal Commission



	TE CHANGE IMPACTS					
Agency:						_
heck fa	cilities your agency is responsible for: Co	llection 🗆 l	Interception	☐ Treatm	ent □ Dis	posal
	mate population receiving wastewater servic					
hone:	Email:				Date:	
PLEAS	E NOTE THIS SURVEY DOES NOT ALTER PER ACTION PLANS, AND IS NOT A				SERVE IN	LIEU OF
chan	your agency conducted a facility or infrastru ge-related impacts or future extreme weathe intensity precipitation, flooding, or extreme	r events (e.	g. sea level r	ise, storm	surge, dr	s climate ought,
	Is there a local or a regional assessm Regional Water Management Plan) t change-related impacts and includes ☐ Yes. Continue to 1b.	that address	es infrastruc			
	☐ No. The survey for your agence	y is comple	ete. <u>Stop her</u>	<u>e.</u>		
	1b. Which components were covered by	the vulner	ability assess	ment? (Cl	neck all th	nat apply)
	☐ Collection system ☐ Interceptors and pump stations ☐ Treatment facilities ☐ Dechlorination ☐ Discharge facilities	□P	and wet wea ower source elecommuni	ther facili / Biogas /	ties	•
. Are i	results of the assessment available on the int	temet?	Yes □ No			
If Ye	es, please provide the website address:					
meas	ct status of measures to increase resilience o sures already in place, indicate the year of co rate the expected year of completion:					
Mea		Status of measures				
	Measures	In Place	In-progress	Planned	Not Planned	Completion Year
	anding capacity	0	0	0	0	
Incr	easing maintenance or rehabilitation uency		0	0	0	
	ancing treatment capability			0		
freq						



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October 2019, Simi Valley Tentative Order:

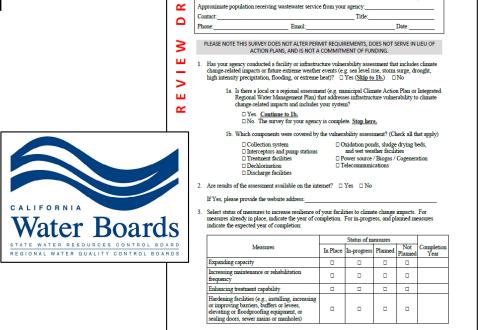
- Special Studies, Technical Reports, and Additional Monitoring Requirements
 - Climate Change Vulnerability Assessment & Mitigation Plan:
 - Considering flooding, wildfire, sea level rise, or other climate-related changes
 - Assess/manage threats that may impact a wastewater treatment facility's...operation, influent quality, its collection system, and water quality, including changes to influent water temperature and pollutant concentrations, and beneficial uses.
 - The Climate Change Plan is due 12 months after adoption of this Order.



State actions to adapt water infrastructure to impacts of climate change

- State Water Board
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CLIMATE CHANGE IMPACTS

Questions for Wastewater Collection, Conveyance, and/or Treatment Agencies



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Coastal Commission Permitting and Climate Change

- Critical Infrastructure Guidance Document to be drafted by early 2020
- Various smaller coastal WWTPs in discussions regarding "managed retreat" and permit negotiations
 - Morro Bay and four others
 - Based on sea level rise projections
- **Next steps:** Meeting with CCC to discuss which WWTPs they will target in 2020 (they have a spreadsheet!)



Thank you!

Upcoming Meetings:

March 25th
BACWA AIR Committee, 10 am – 1 pm

CASA Air Quality, Climate Change & Energy (ACE) Workgroup January 17th, 8:30 – 10:30 am (Conference Call/Webinar)

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