

Coffin Butte Landfill Title V Air Permit Renewal

Air Quality

May 20, 2025
Zoom Webinar

Raising your virtual hand



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From DEQ

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Purpose and Agenda of Today's Meeting

- Provide information about the draft Title V air permit renewal for Coffin Butte Landfill.
- Hear questions and provide answers.
- Receive verbal public comments.
- If the permit applications meets all legal requirements, then DEQ is required to issue the permit.

As always, please speak for yourself and be respectful of others.

Public Comment Period

- Open through 5 p.m. **Friday, June 6, 2025.**
- DEQ gives verbal and written comments equal weight.
- Go to ordeq.org/CoffinButteTitleV.
 - Info on how to submit written comment.



Coffin Butte Landfill Title V Air Permit Renewal Overview

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State of Oregon
Department of Environmental Quality

Overview of Coffin Butte Landfill



Flare and Pacific NW Generating Cooperative Electrical Power Generators



What is a Title V Air Permit?

- A Title V permit is a federally mandated operating permit for facilities that emit significant amounts of air pollution.
- The permit outlines:
 - air quality requirements the facility must adhere to,
 - and emission limits, monitoring, recordkeeping, and reporting requirements.

Why Are We Renewing The Air Permit?

- These permits are designed to be updated every five years. The current permit was written more than 15 years ago.
- The proposed permit:
 - Includes updated regulations.
 - Increases monitoring frequency.
 - Adds requirements for methane collection and control.
 - Ensures compliance with National Ambient Air Quality Standards.

Permit Emission Limits

Pollutant Name	Pollutant	Previous PSEL (tons/year)	Proposed PSEL (tons/year)
Particulate Matter	Particulate matter (PM)	24	70
Small particulate Matter	PM ₁₀	14	25
Fine Particulate Matter	PM _{2.5}	Not Regulated	11
Carbon Monoxide	CO	99	92
Volatile Organic Compounds	VOC	39	30
Sulfur Dioxide	SO ₂	39	42
Nitrogen oxides	NO _x	39	28
Non-Methane Organic Compounds	NMOC	49	72
Total Reduced Sulfur	TRS	Not Regulated	12
Hydrogen Sulfide	H ₂ S	Not Regulated	11
Greenhouse Gases	GHG (CO ₂ e)	Not Regulated	282,500

Why Are Emissions Limits Increasing

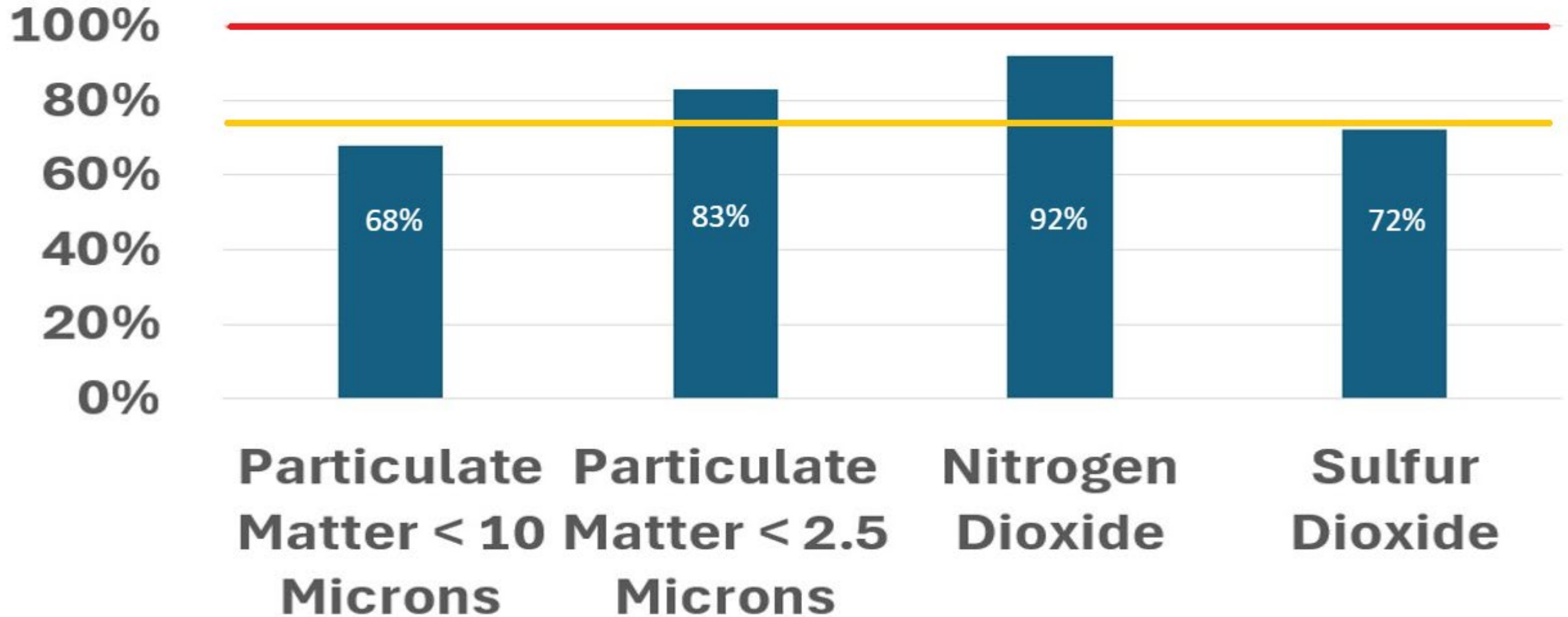
Pollutant	PSEL Increase (tons per year)	Main Reason For Change In Limit
PM	46	Improved estimation of emissions from haul roads.
PM ₁₀	11	
PM _{2.5}	11	
GHG (CO ₂ e)	282,500	This pollutant was not previously regulated.
SO ₂	3	Increase in landfill gas combustion.
NMOC	23	Increase in landfill gas generation.
TRS	13	Better data of the landfill gas concentration and additional landfill gas generation.
H ₂ S	11	

Before Increasing Emission Limits

- DEQ validates emission calculations.
- When emissions increase above a threshold DEQ requires modeling to ensure there is not a violation of national ambient air quality standards.
- For this permit we modeled:
 - Particulate matter less than 10 micron (PM_{10}) and less than 2.5 micron ($PM_{2.5}$) in size
 - Nitrogen Oxides
 - Sulfur Dioxide

Highest Modeled Result For Each Pollutant Modeled

% of National Ambient Air Quality Standard



Added Permit Monitoring Requirements

- To minimize dust from roads DEQ has added work practice requirements including 15 mph posted speed limits and regular water application to roads.
- The flare will be tested for methane and nitrogen oxides emissions.
- Landfill gas will be monitored for sulfur content that contributes to hydrogen sulfide and sulfur dioxide emissions.

Expansion

This permit renewal does not address a possible expansion.

If Benton County approves land use for an expansion of the landfill's operation, Coffin Butte would need to apply for a significant modification of their air quality permit with DEQ.

Significant permit modifications must be put out for public comment and if requested there would be a hearing like we are having tonight.

EPA's Inspections

EPA inspected the landfill in 2022 and 2024.

Their inspection reports indicated EPA found several areas with methane leaking out of the landfill.

EPA will take the lead on any enforcement that may arise from their inspections.

Odors

We have received several odor complaints recently.

What is being done about it:

- A new flare was installed in 2024.
- Thirty-four new landfill gas extraction wells were installed in 2024.
- Quarterly the surface of the landfill is monitored for leaks.
- Monthly cover integrity checks.

What is Cleaner Air Oregon?

- State-only air quality permitting program adopted in 2018.
- Regulates emissions based on local risks to health.
- Over 600 Toxic Air Contaminants reported and over 200 regulated.
- Applies to “new” and “existing” facilities with AQ permits.



Existing Facility Call-in Prioritization

Emissions Data:

- 2016 Air Toxics emissions inventories

Comparisons:

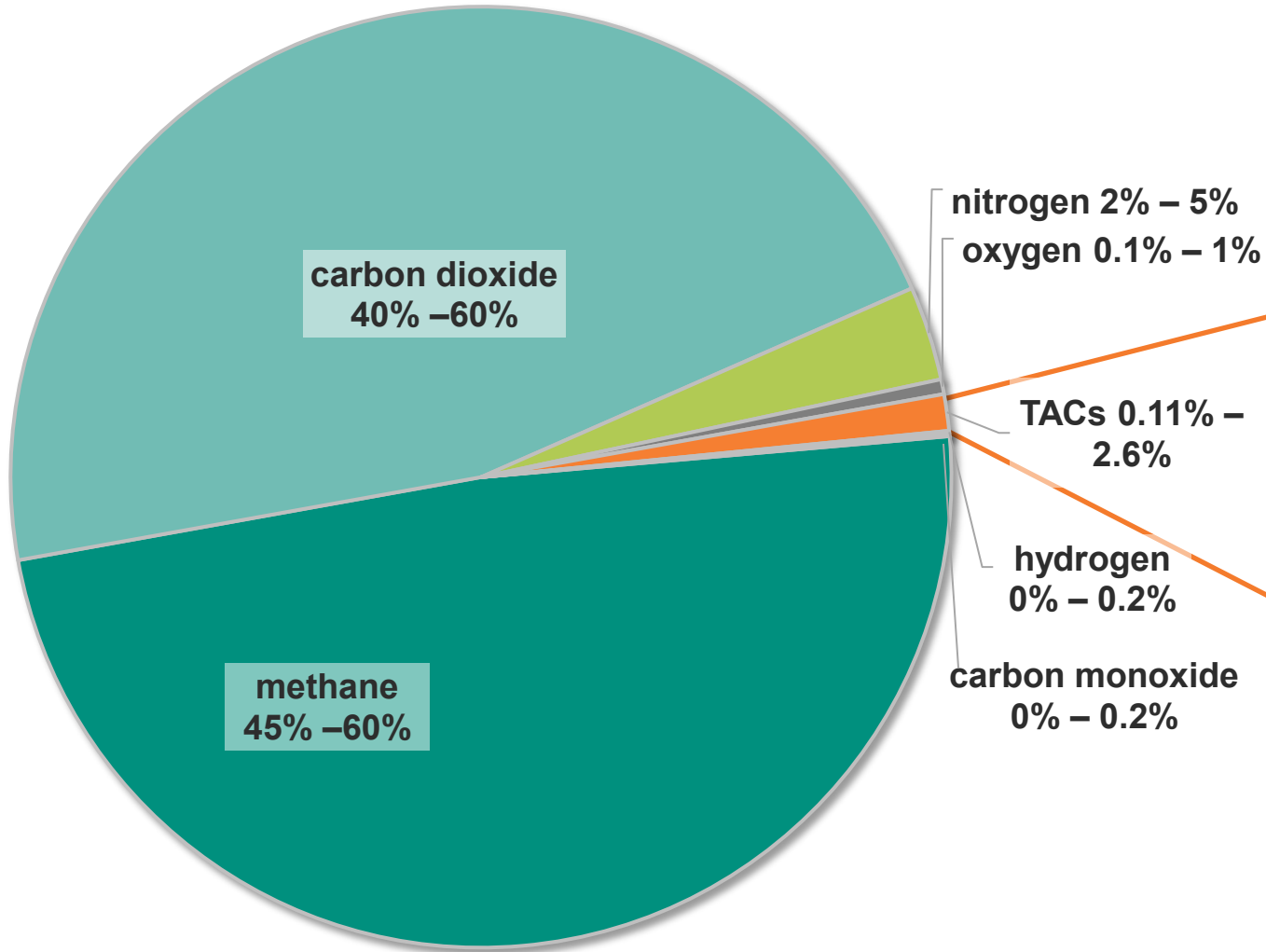
- Quantitative: screening risk and demographic information
- Qualitative: emissions controls, distance to homes, and data quality

Results:

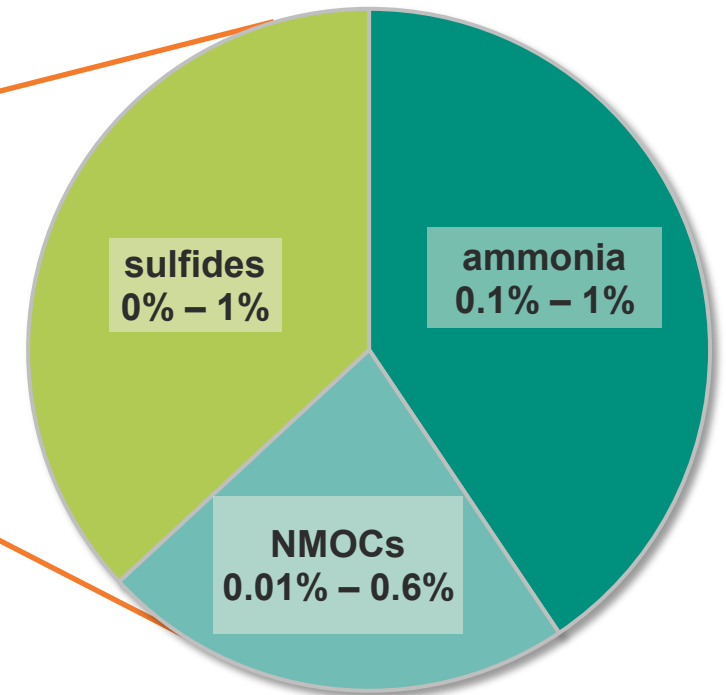
- **Group 1:** 20 facilities all called-in
- **Group 2:** 20 facilities to be called-in by the end of 2025
- **Group 3:** 315 lower priority facilities to be called in as resources permit or if new information becomes available

Coffin Butte

Landfill Gas Components



Toxic Air Contaminants



Cleaner Air Oregon Process



Where we are

- Provide information about the draft Title V air permit renewal for Coffin Butte Landfill.
- **Hear questions and provide answers.**
- Receive verbal public comments.
- If the permit applications meet all legal requirements, then DEQ is required to issue the permit.

As always, please speak for yourself and be respectful of others.

Questions?



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Asking a Question

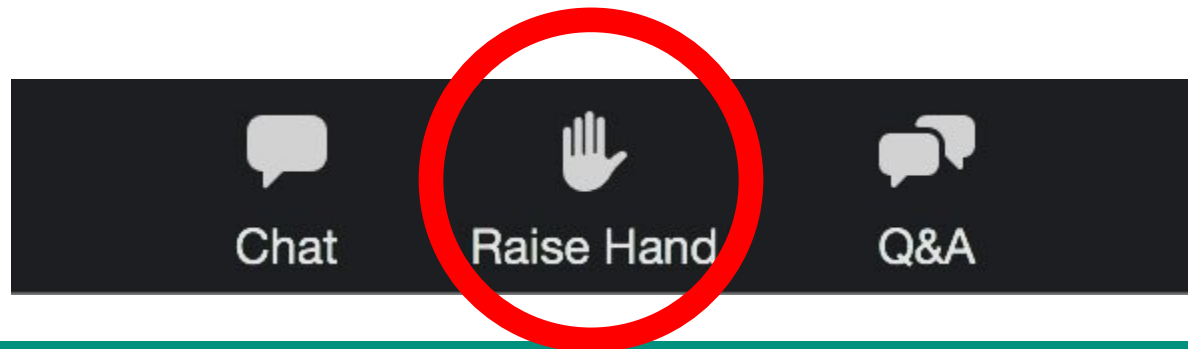
- You should see the following along the bottom of your screen.



- To ask a question: type it into the Q&A or raise your hand and the host will un-mute you. (Press *9 if you're on the phone.)

Making a Verbal Comment

- During the public hearing portion of the meeting, raise your hand to comment.
- We'll call folks in the order their hand was raised.
- Remember *9 if you're listening by phone.
- State and spell your first and last name.



Coffin Butte Landfill Title V Air Permit Renewal Public Hearing

Recorded

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One minute left

15 seconds left

Please wrap up
Time expired

Next Steps

- DEQ will review and reply to all comments.
- EPA will review the permit.
- If the permit meets all legal requirements, DEQ is required to issue the permit.

Public Comment Period

- Open through 5 p.m. **Friday, June 6, 2025.**
- DEQ can only consider comments about the draft Title V air quality permit renewal.
- DEQ gives verbal and written comments equal weight.

Written Comment

- Your DEQ Online: ordeq.org/CoffinButteTitleV



- Email to: wraqpermits@deq.oregon.gov

For more information

- DEQ's Coffin Butte Landfill web page
ordeq.org/CoffinButteLandfill



Thank you!



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