

Dear Constituents,

For years, YSRQD has been telling you that Coffin Butte is a terrible location for a landfill because of the wet climate here. Even with an optimal gas collection system there will still be fugitive gas, and the wetter the landfill location, the more gas (and leachate) and corresponding fugitive gas is generated.

The issue of the HEDPDA regarding landfill gas emissions compliance issues.

Below are two representative graphics illustrating just how much annual climate damage Coffin Butte incurs - one using 2022 Carbon Mapper data, and an updated one using 2023 Carbon Mapper data. Both show a low, midpoint and high end of the range of damage in metric tons of carbon dioxide equivalent. Note the sharp increase in just two years.

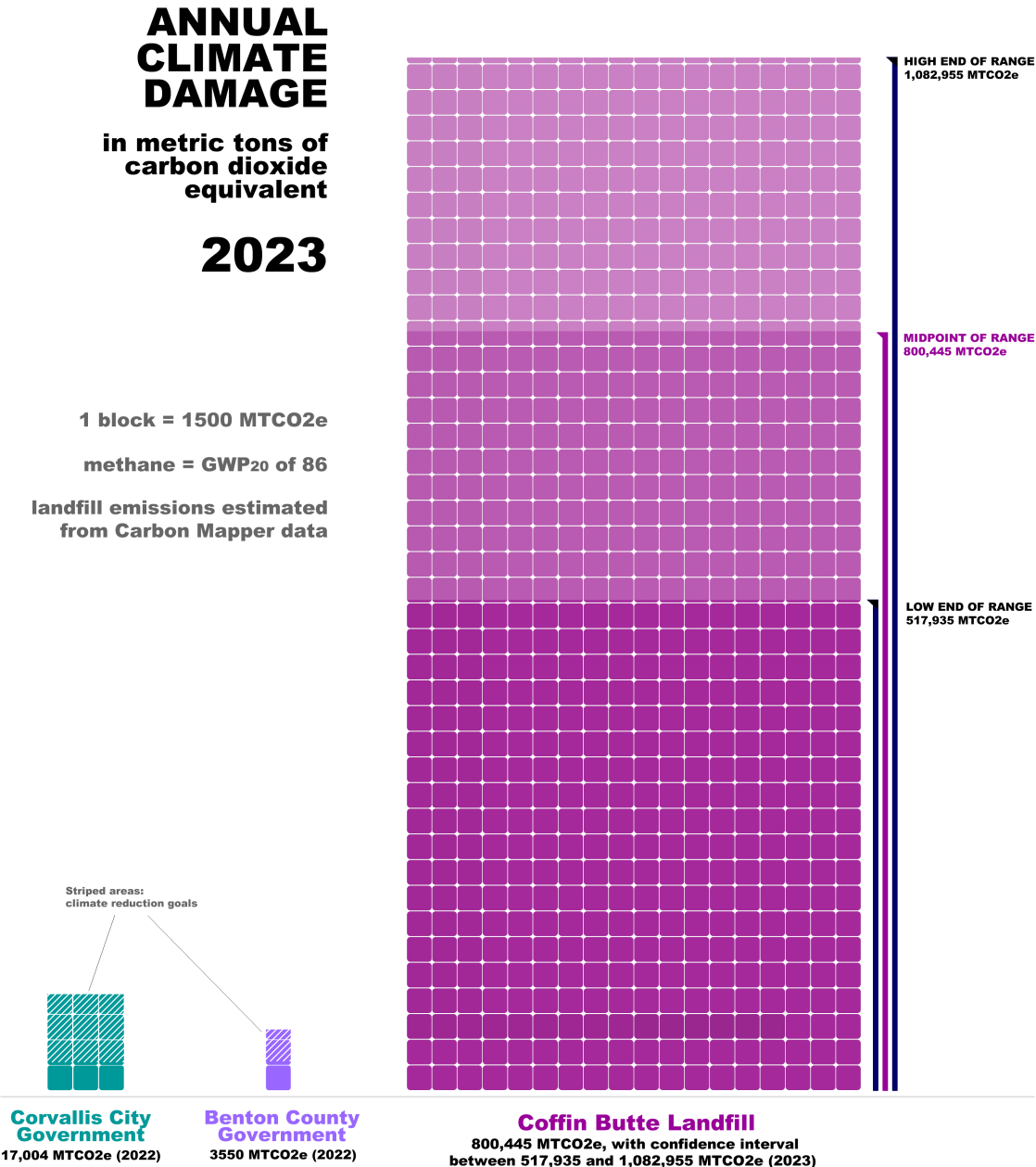
These are merely to help you visualize how much is at stake here.

My point is, although RCY 13.228 allows conditions of approval to mitigate impacts, the climate is not mitigatable and the Conditions of Approval in the application do nothing to change this inconvenient truth. There's no evidence that YSL can make their new landfill site immune to the effects of the wet climate here any more than they can the existing site, therefore [redacted] will have grounds for denial.

Respectfully Submitted,
 Dakota Roney
 17140 Moss Rock Dr
 Corvallis, OR 97331

THE 2023 VERSION:

The Elephant in the Room



All figures are approximations from most recent data available. Methane MTCO₂e uses GWP₂₀ = 86

Data sources: greenhouse gas inventories self-published by City of Corvallis (2022), Benton County (2022); striped areas show climate action reduction goals. Carbon Mapper data from aerial surveys (2023).

Carbon Mapper super-emissions from four point sources derived from six remote sensing surveys of 16 methane plumes over a ten-day period in June 2023. Methane quantification by Carbon Mapper: 1.7 metric tons of methane per hour, plus or minus 0.6 metric tons

For simplicity, scenario assigns equal share in output to each point source and varying durations to each: Point Source 1 = 3 months, PS2 = 6 months, PS3 = 9 months, PS4 = 12 months

The Elephant in the Room

ANNUAL CLIMATE DAMAGE

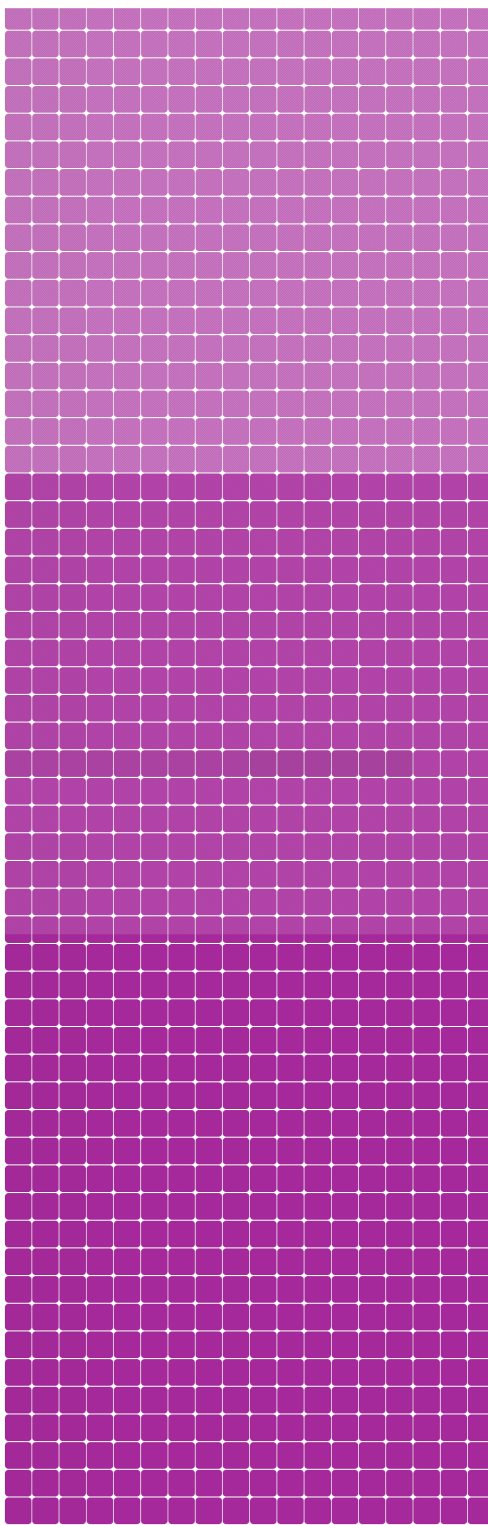
in metric tons of
carbon dioxide
equivalent

1 block = 1500 MTCO₂e

methane = GWP₂₀ of 86

landfill emissions estimated
from Carbon Mapper data

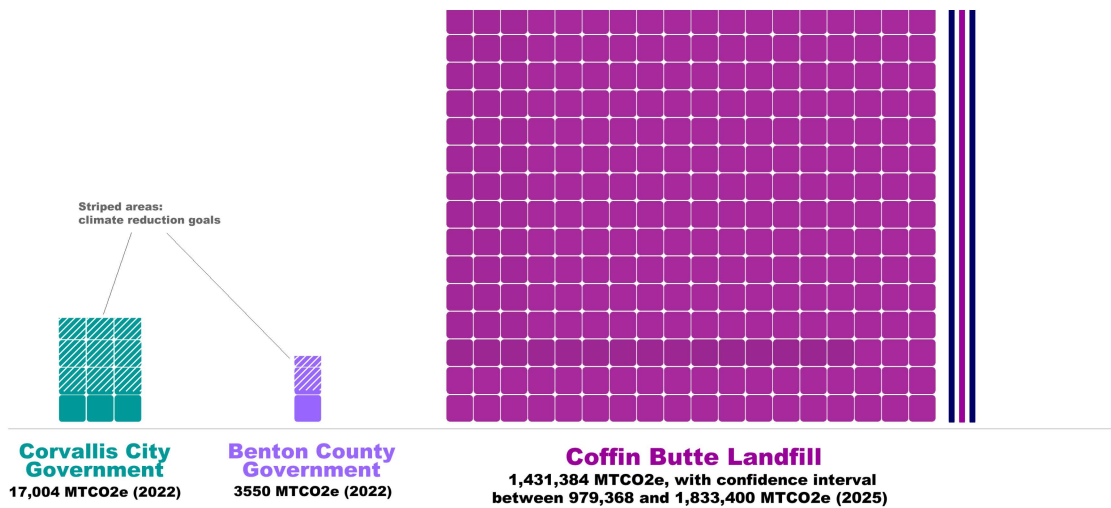
2025 (est)



HIGH END OF RANGE
1,833,400 MTCO₂e

MIDPOINT OF RANGE
1,431,384 MTCO₂e

LOW END OF RANGE
979,368 MTCO₂e



All figures are approximations from most recent data available. Methane MTCO2e uses GWP₂₀ = 86

Data sources: greenhouse gas inventories self-published by City of Corvallis (2022), Benton County (2022); striped areas show climate action reduction goals. Carbon Mapper data from aerial and satellite surveys 2023-25.

2023-5 methane quantification by Carbon Mapper: 1.9 metric tons of methane per hour, plus or minus 0.6 metric tons