

Coronavirus Traffic Reductions & Air Quality

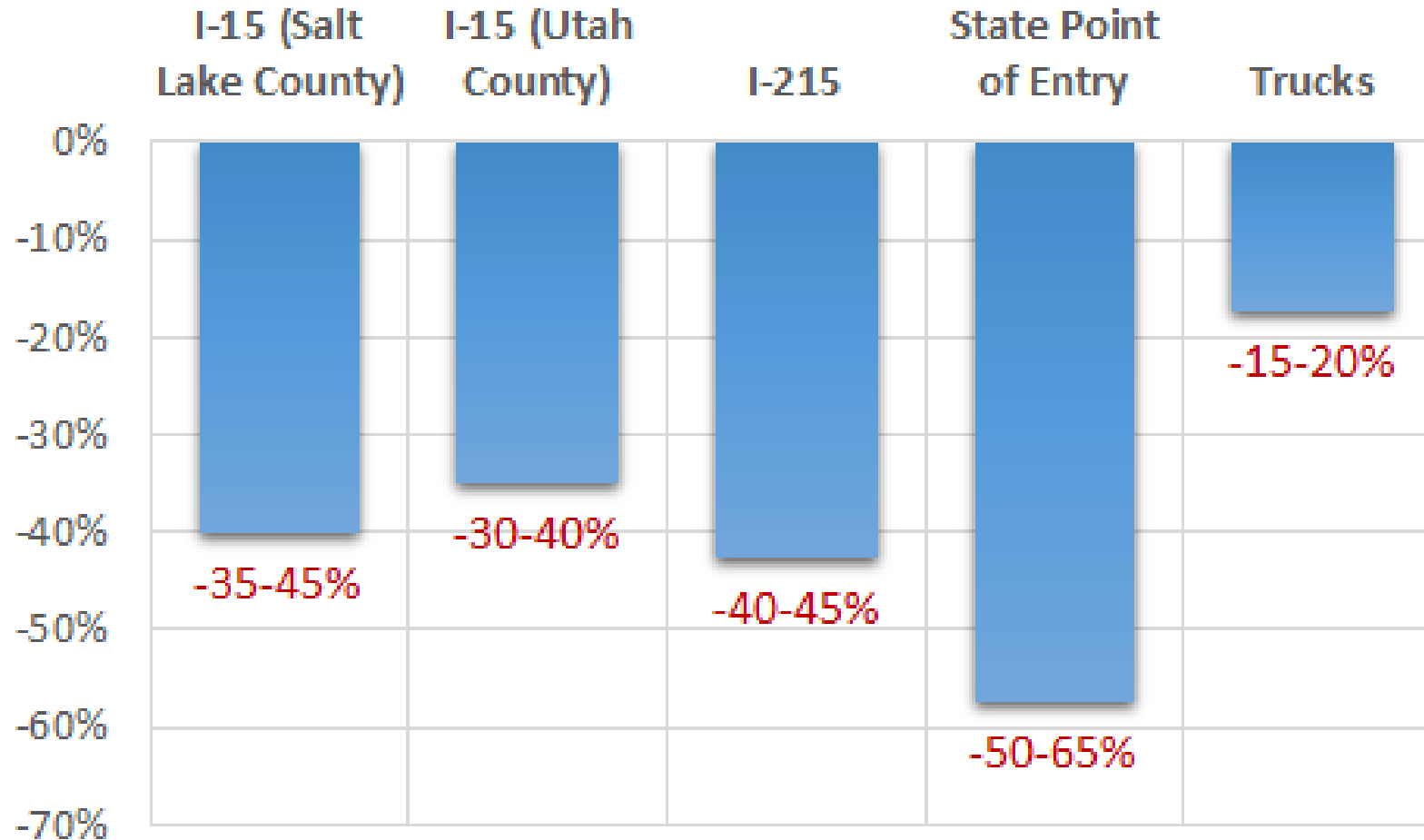
Emission Reductions for March & April

2019 vs 2020

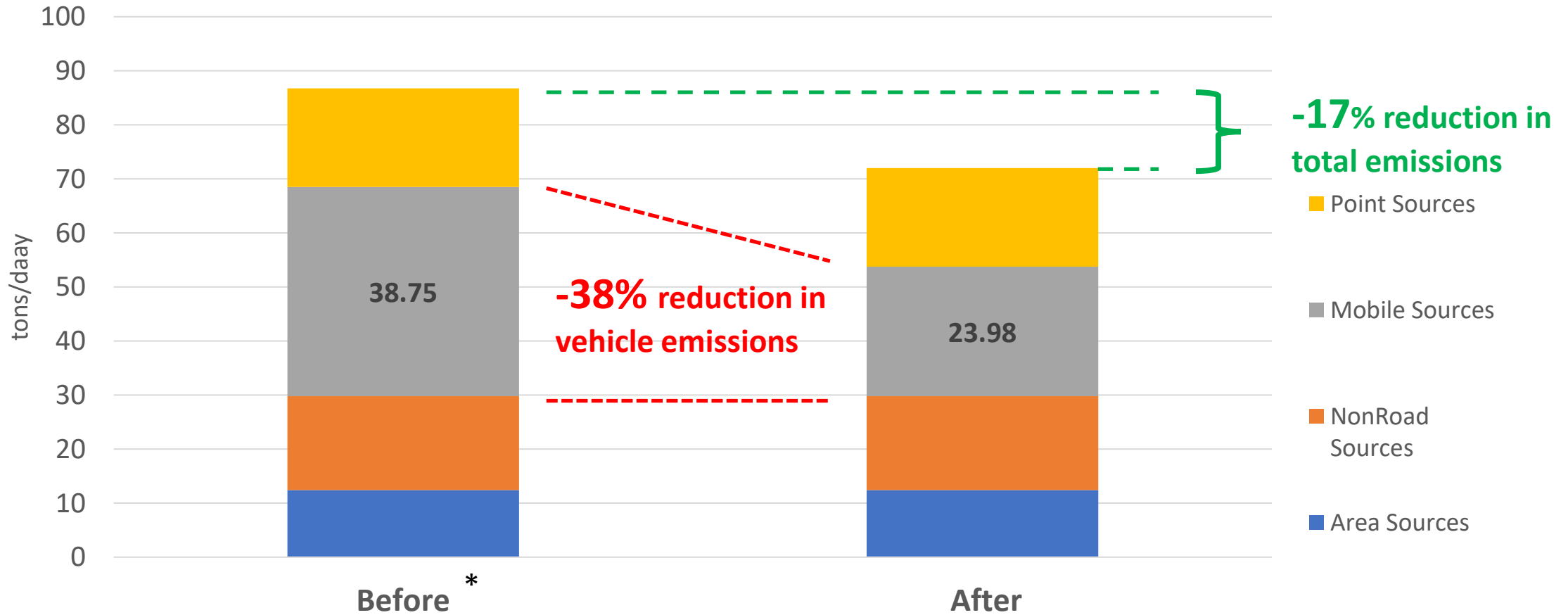
WFRC, May 2020

Decrease in Freeway Volume Due to COVID-19

Reported by UDOT as of mid April



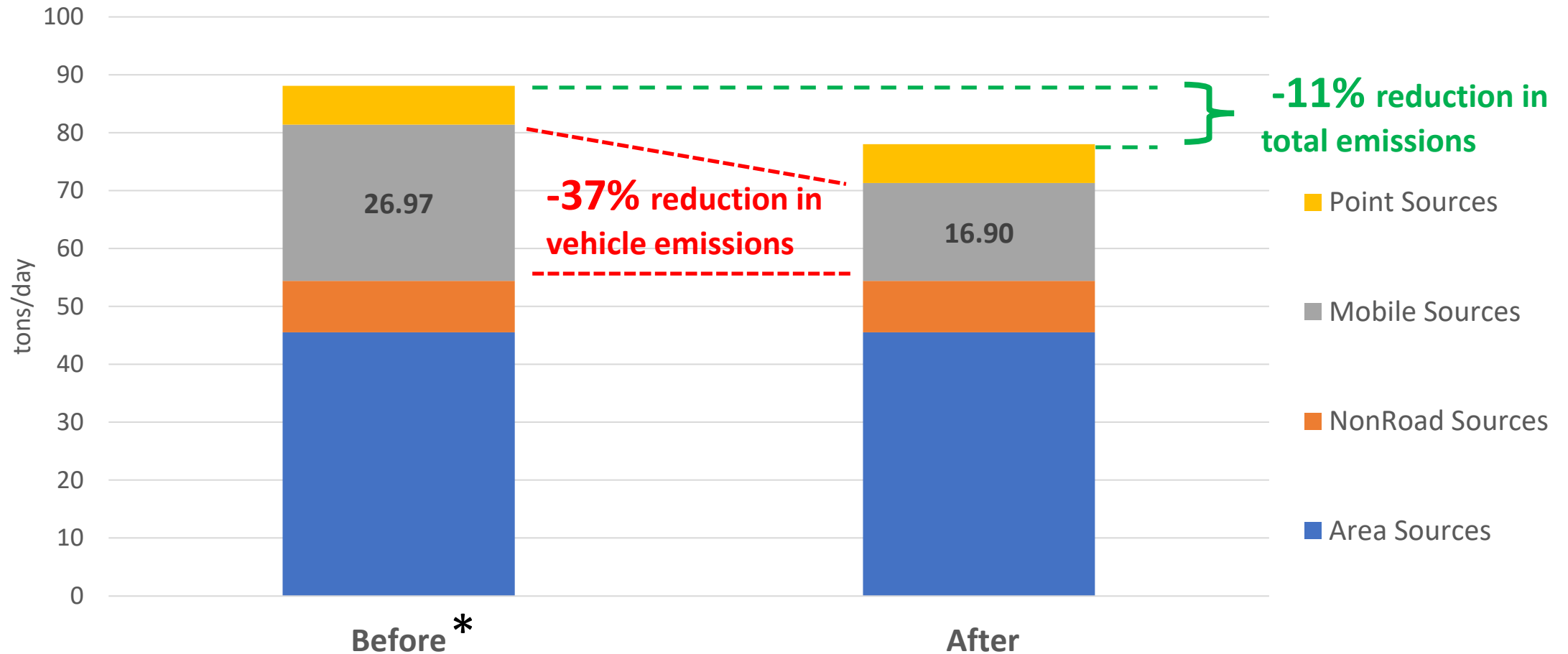
NOx Emission Impact from Coronavirus Traffic Reductions



Assumes 15% less truck traffic and 40% less traffic from other vehicles based on UDOT traffic counts March 2020.

*Emissions for 2020 by category interpolated from Salt Lake County PM2.5 State Implementation Plan. Point, Non-road, and Area Sources were not modified for the coronavirus.

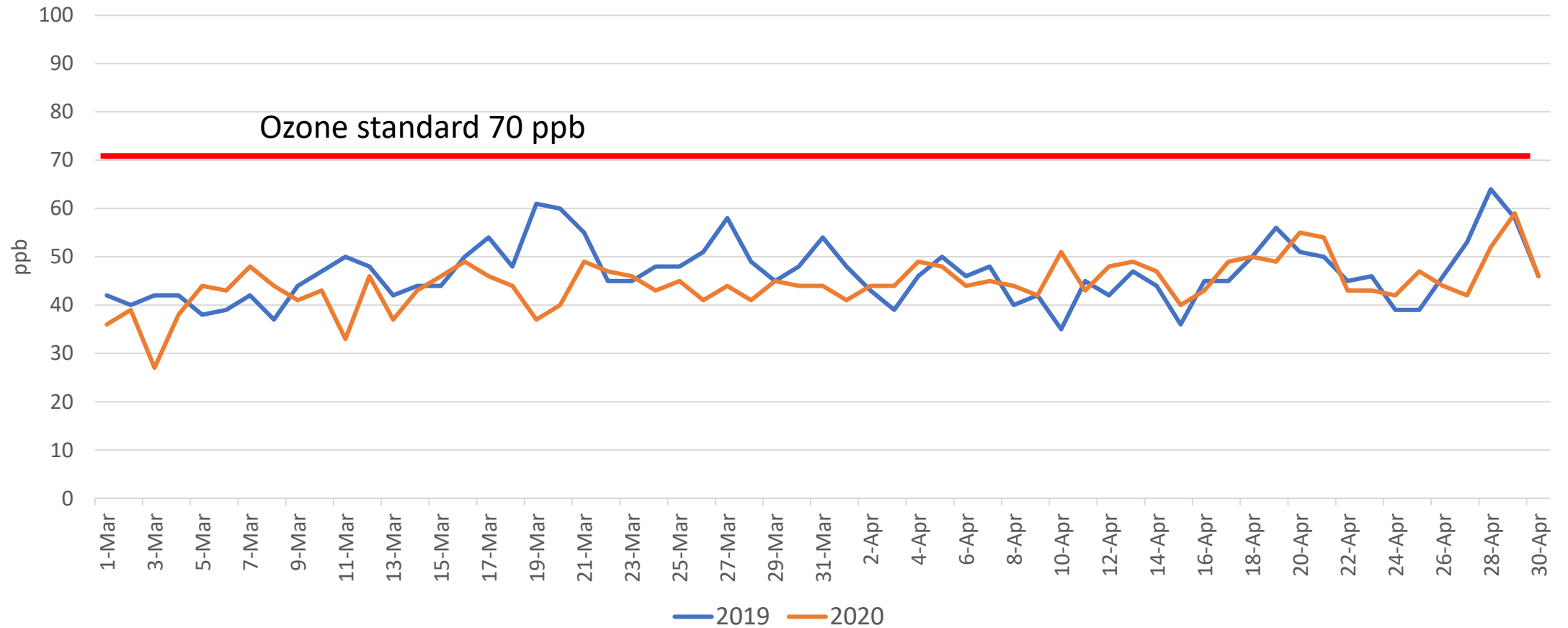
VOC Emission Impact from Coronavirus Traffic Reduction



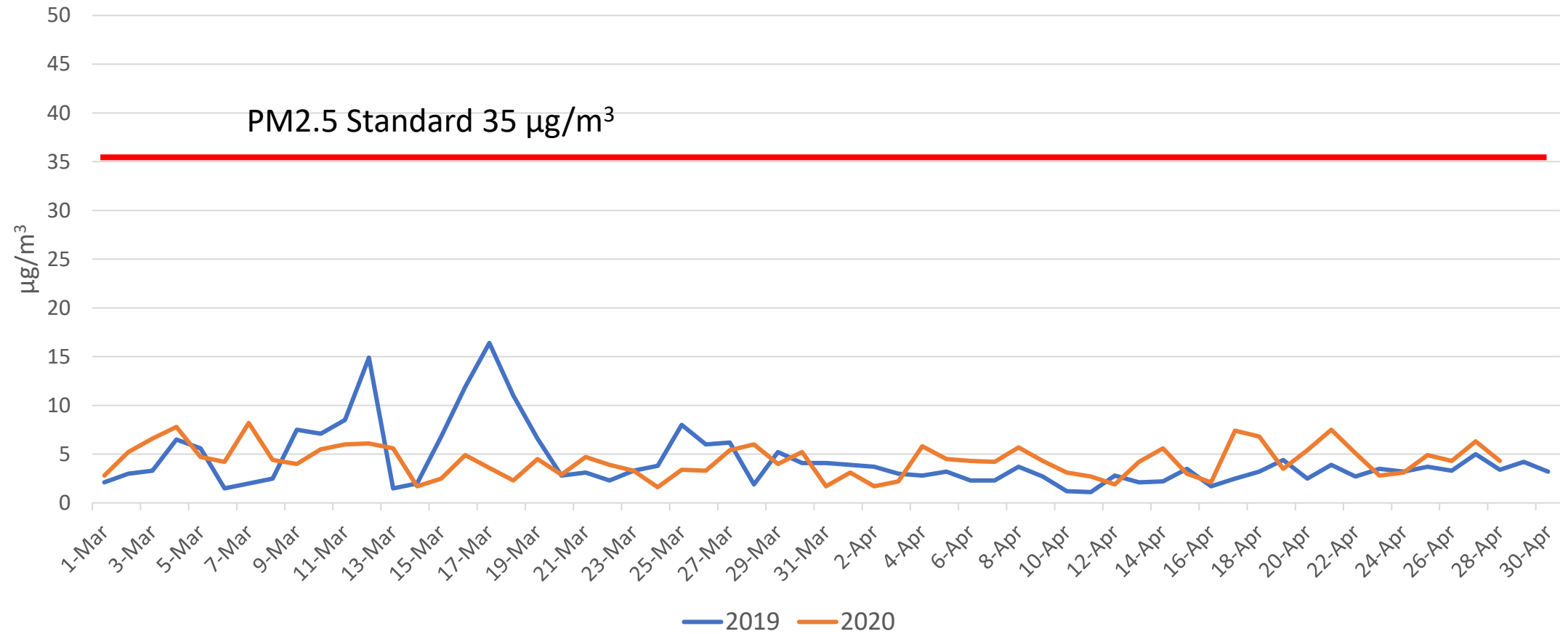
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Coronavirus & Ozone Pollution, Bountiful Station March & April: 2019 vs 2020



Coronavirus & PM2.5 Pollution, Rose Park Station March & April: 2019 vs 2020



Air Quality Lessons from Coronavirus Experience

- Telecommuting is an effective strategy
 - Reduced VMT
 - Reduced vehicle emissions
 - Low implementation cost
- Vehicles are ~33% of emissions
- Air quality is complex
 - Emissions profile
 - Weather
 - Temperature/Inversions
- More studies to follow