

An aerial photograph of a town and river valley at sunset. The town is built on a hillside overlooking a wide river. A large industrial facility with several smokestacks is visible on the left side of the river. A multi-arched bridge spans the river in the middle ground. The background features rolling hills and mountains under a sky with soft, colorful clouds in shades of orange, pink, and blue. The foreground is filled with green trees.

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**SO₂ PERMIT AMENDMENT
PUBLIC NOTIFICATION**

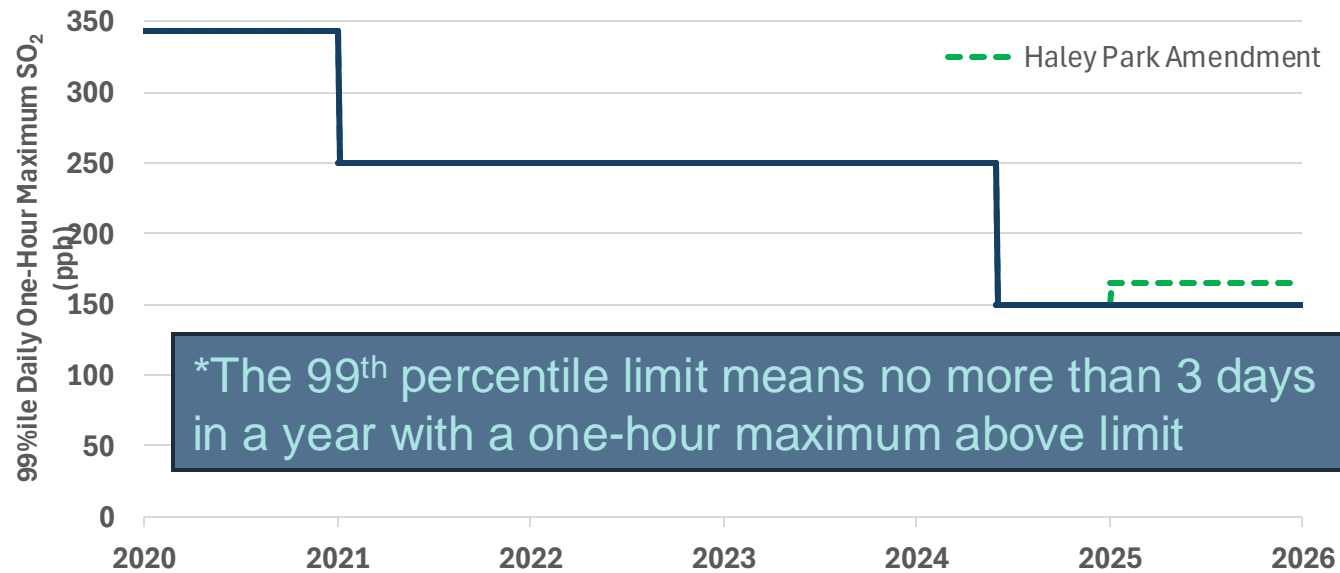
BACKGROUND

28 November 2024

TRAIL OPERATIONS' AIR PERMITS

Ambient SO₂ Requirements

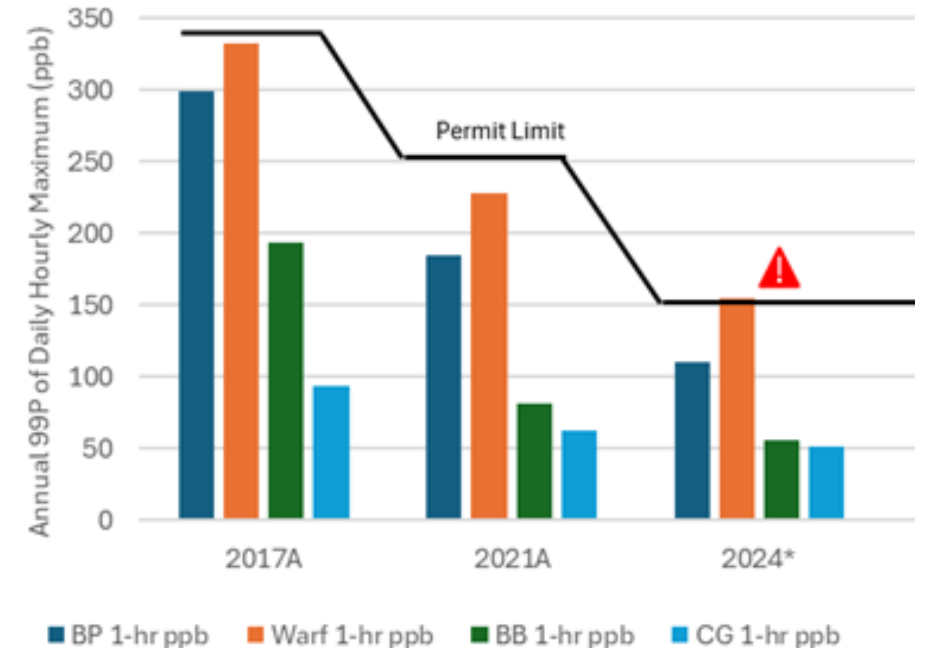
- Limits for ambient SO₂ at all continuous monitoring stations: Butler Park, Birchbank, Haley Park and Columbia Gardens
 - 344 ppb until 2021, 250 ppb until May 2024, now 150 ppb
- Minor permit amendment requested for Haley Park to increase limit from 150 to 165 ppb



WHY IS THE PERMIT AMENDMENT NEEDED?

- Upgrades at Trail Operations have reduced SO₂ emissions by 50% since 2010
- Community ambient SO₂ levels have lowered proportionate to emissions; reduction in ambient levels at Haley Park is less than predicted
- Further work is ongoing to understand and mitigate the 1-hour peaks
- Trial using real-time weather and emissions data to predict when peak is likely and modulate emissions
- Permit amendment required to support compliance while additional work is completed
 - Interim minor amendment 165 ppb
 - Potential future permit amendment based on Haley Park capabilities under normal operating conditions and efficacy of modulation

Annual 99th Percentile of the Daily Maximum One-hour Average SO₂ at Community Monitoring Stations

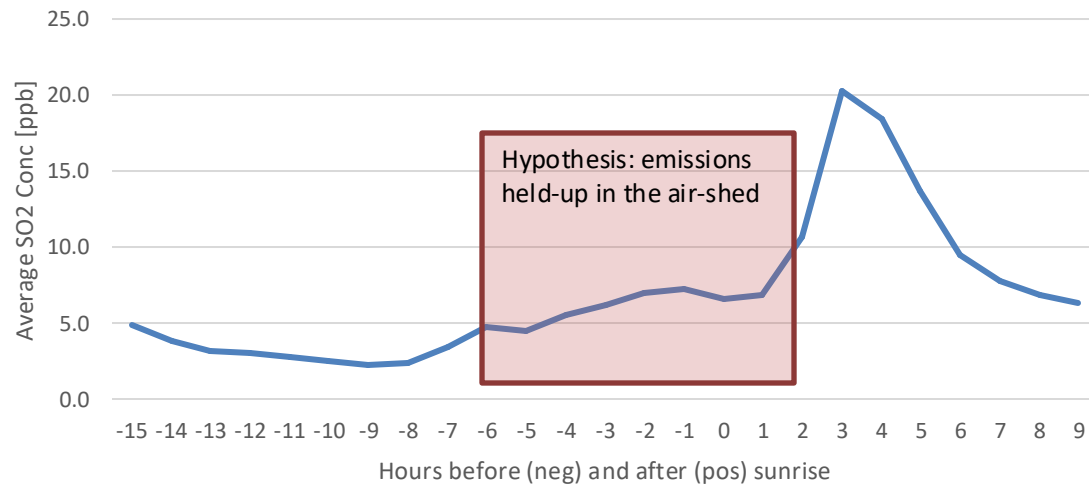


- 2024 YTD: 6 hours above 150 ppb
3 hours above 165 ppb

WHAT DOES THIS MEAN FOR THE COMMUNITY?

- Permit amendment will not influence number of hours above 185 ppb health-based guidance level
- Elevated levels are infrequent and short lived, and typically occur mid-morning
- 2024 YTD:
 - 6 hours above 150 ppb
 - 3 hours above 165 ppb

Average Ambient Concentration by Hour, Relative to Sunrise



SO ₂ Level (ppb)	Consider taking the following action at these levels	Haley Park 2024 YTD Hours
0-35	None	7742
36-184	No effects are expected for the general population. Persons with chronic respiratory conditions such as asthma should consider reducing or rescheduling strenuous outdoor activities if experiencing symptoms .	201
185+	Persons with chronic respiratory conditions such as asthma should reduce or reschedule strenuous activities outdoors. Others, especially children and the elderly should also consider avoiding outdoor physical exertion.	2

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THANK YOU
QUESTIONS?