

## Air Quality Report – November 2024

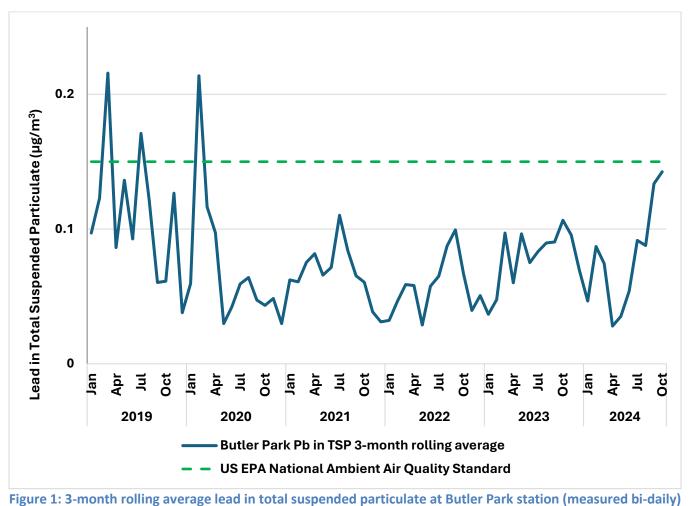
The THEC Air Quality Report provides an update on levels Pb and SO<sub>2</sub> in community air based on THEP's current priorities related to ambient air.

1. Lead in Air:

Figure 1 presents the 3-month rolling average for lead in airborne dust measured at the Butler Park station compared to the US EPA standard of  $0.15 \,\mu\text{g/m}^3$ . Federal and BC Provincial governments do not have ambient air quality objectives or standards for lead; however, it is reasonable to rely on standards from other jurisdictions when this is the case.

Lead in airborne dust levels measured at Butler Park and Birchbank meet the US EPA standard of  $0.15 \ \mu g/m^3$  on a 3-month average. The variability in the data reflects the influence of weather including dominant wind direction and precipitation. Read THEP's Lead (Pb) <u>Fact Sheet</u> to learn more.

The chart in Figure 1 shows the 3-month rolling average for lead in airborne dust at Butler Park (blue line), in comparison to the US EPA standard (green dashed line).



## Trail Area Health & Environment Program Community Program Office

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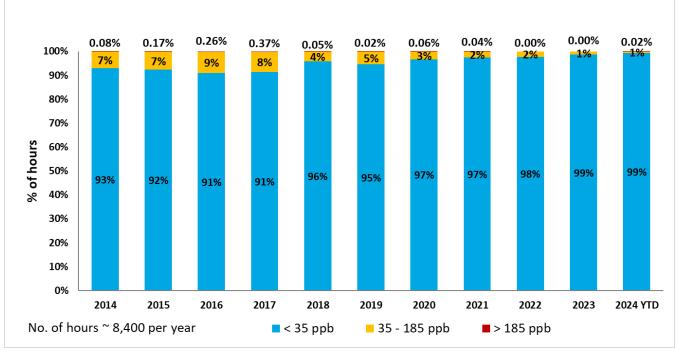


## 2. Sulphur Dioxide (SO2):

SO<sub>2</sub> is emitted by Teck Trail Operations as a by-product of processing mine concentrates, which contain sulphur, into metal and chemical products. Teck Trail Operations currently captures more than 99% of the sulphur and converts it to by-products, such as fertilizer and sulphuric acid. About 1% leaves the operation through emissions to air. With environmental improvements, SO<sub>2</sub> emissions continue to decline. However, the dispersion of air emissions from the smelter is constrained due to the location of the smelter, weather and the surrounding topography.

SO<sub>2</sub> is monitored by Teck at four locations in the Trail area – Birchbank, Butler Park, Columbia Gardens and Warfield. These stations operate continuously, with near real-time data publicly available at <u>https://www.env.gov.bc.ca/epd/bcairquality/readings/find-stations-map-SO2.html</u> SO<sub>2</sub> levels fluctuate throughout the day, month and year.

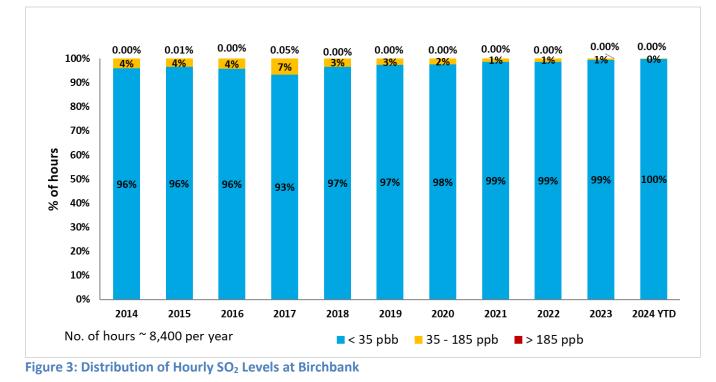
THEP's SO<sub>2</sub> <u>Fact Sheet</u> provides guidance for actions to take when SO<sub>2</sub> levels are elevated. The chart below provides SO<sub>2</sub> hourly data from Butler Park and Birchbank stations for 2014 - 2024 year-to-date, categorized by the health guidance levels. As Teck Trail Operations continues to implement emissions reductions measures, the percentage of hours within the yellow (35-185 ppb) and red (>185 ppb) categories is decreasing.





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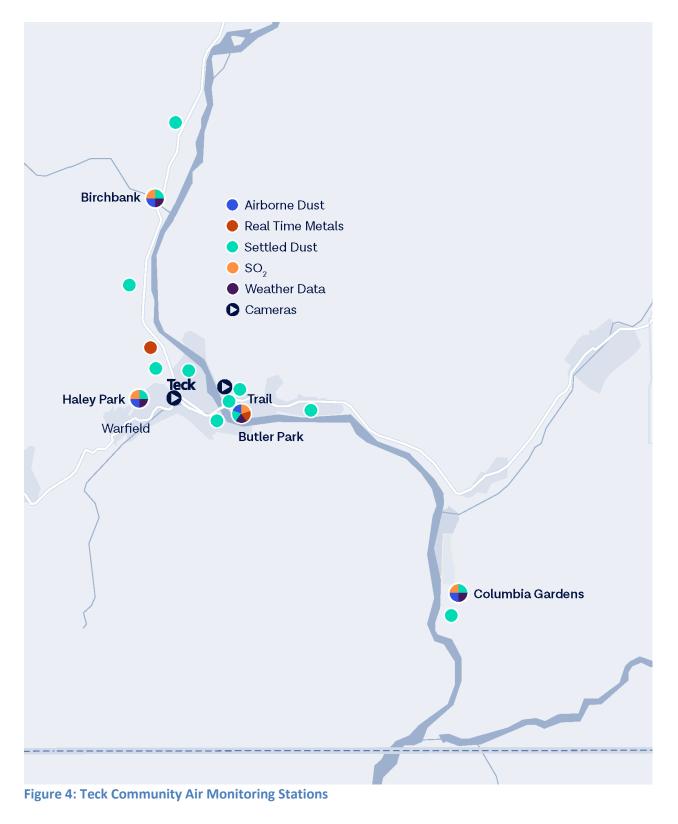


Residents who have concerns about air quality are encouraged to call the Teck Community and Environment Feedback line at (250) 364-4817, a phone line answered 24 hours a day.

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