

# WHISTLER PURPLEAIR/BAM AUGUST SUMMARY

Monitoring Period: August 1<sup>st</sup> – August 31<sup>st</sup> 2023

Location: Whistler, BC, Canada



Figure 1 - Monitoring Locations

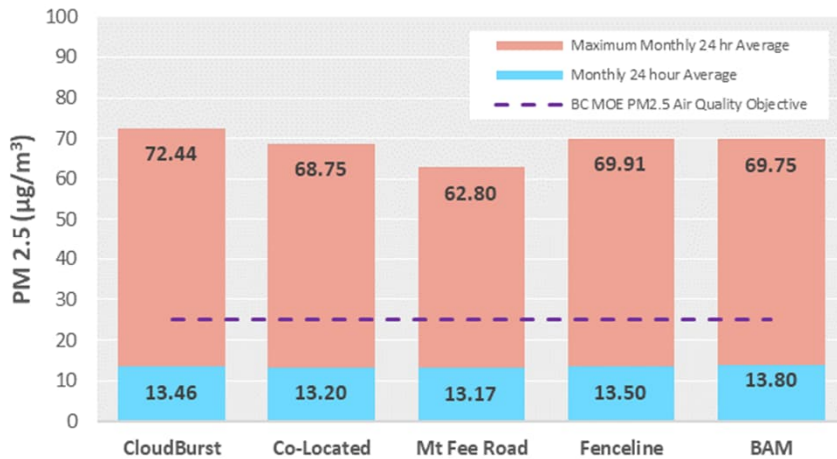


Figure 3 - Monthly Averages and Maximum 24-Hour Averages By Station

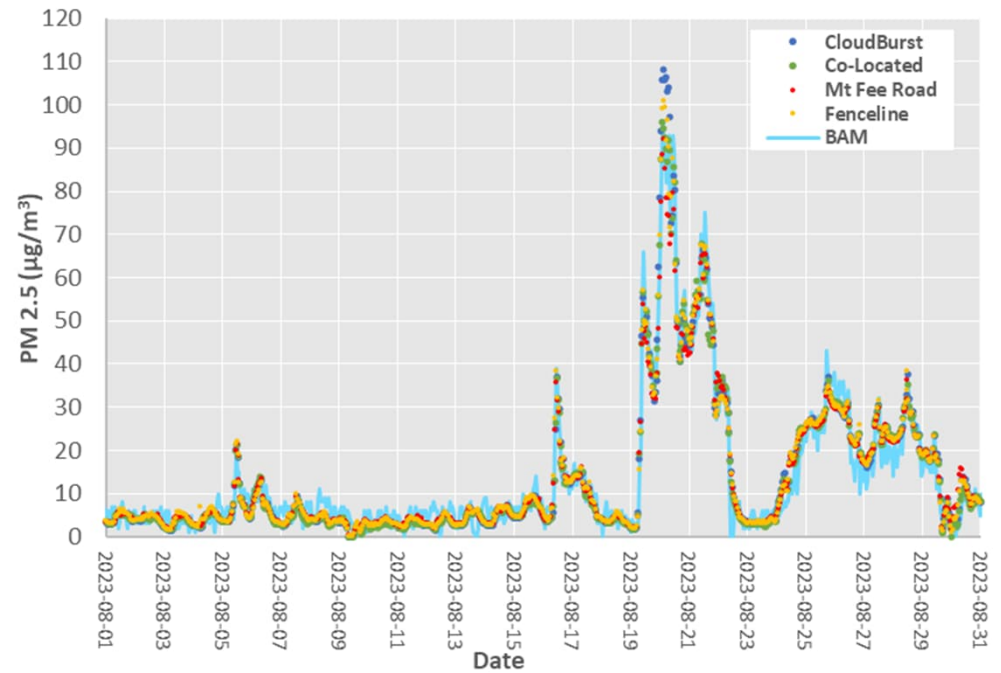


Figure 2 - PM<sub>2.5</sub> Time Series of Purple Air Monitors and Whistler BAM

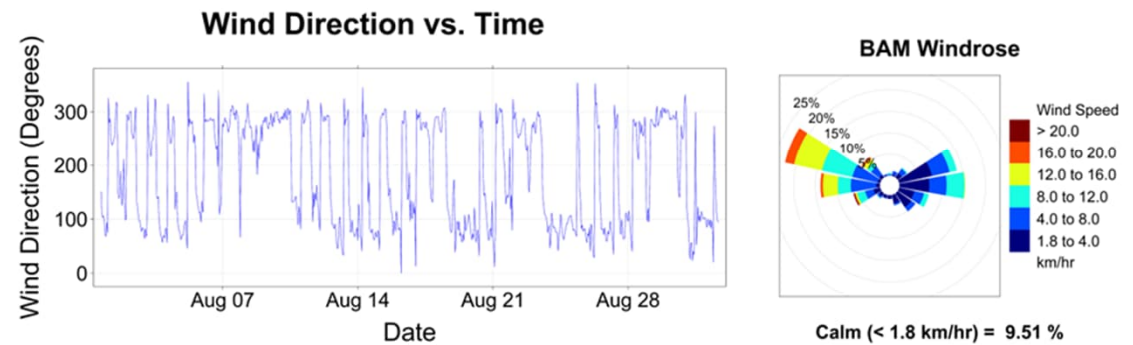


Figure 4 - Wind Direction vs. Time and BAM Windrose

**Discussion:** The 24-hour maximums for the monitors were all above the BC MOE PM<sub>2.5</sub> Air Quality Objective as shown in Figure 3.

Metro Vancouver issued Air Quality Advisories from August 19 to August 22, and August 25 to August 29 due to high concentrations of PM<sub>2.5</sub>. ([metrovancouver.org](http://metrovancouver.org)) These elevated levels of the regional PM levels can be seen during those dates in the data collected by all sensors.

Data from the PurpleAir monitors was corrected using Model 7, as suggested by Nilson et al. in the journal Atmospheric Measurement Techniques (<https://doi.org/10.5194/amt-2021-425>).