



# Department of Environmental Conservation's Air Monitoring Program Community-Based Air Monitoring Project

## 2024 Summer Season Air Quality Report for Native Village of Chickaloon, Chickaloon, Alaska

The QuantaQ MODULAIR sensor in Chickaloon (9255 Glenn Hwy, Chickaloon, AK 99674) was installed on 08/07/2024.

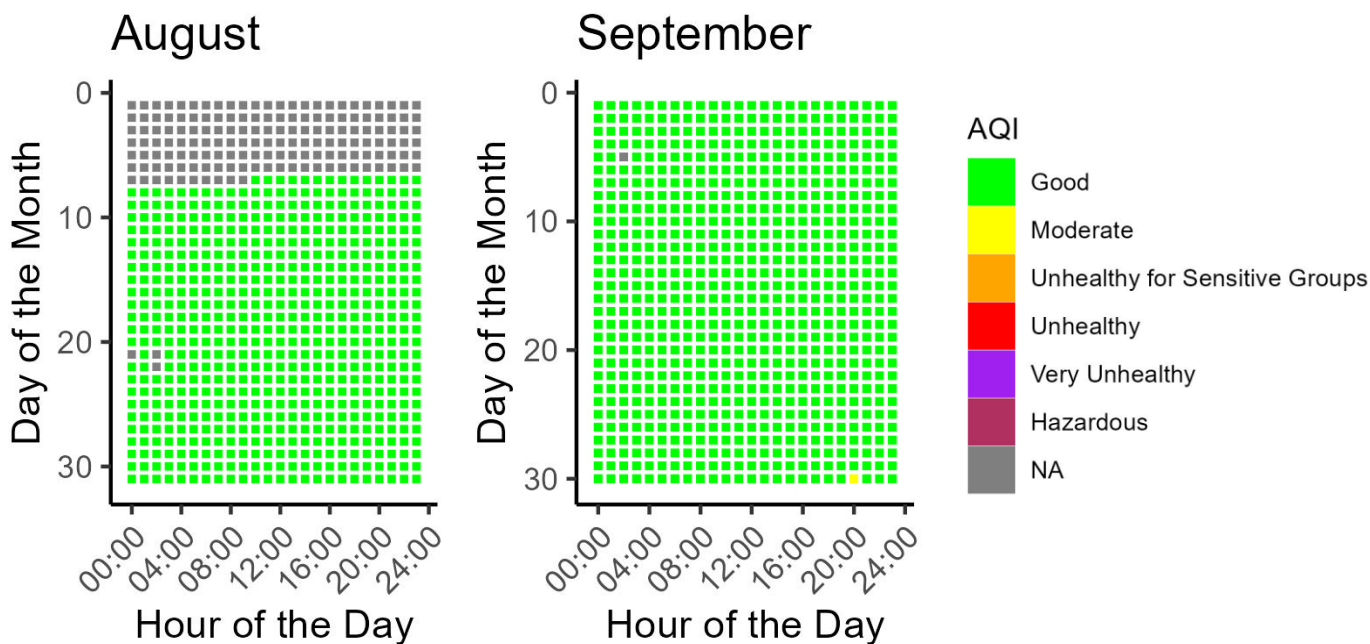
The sensor measures for carbon monoxide (CO), ozone (O<sub>3</sub>), nitrogen oxide (NO), nitrogen dioxide (NO<sub>2</sub>), particulate matter (PM<sub>2.5</sub> and PM<sub>10</sub>), temperature (°C), and relative humidity (RH).

Data is collected every minute and is then processed into hourly averages. The sensor in Chickaloon has run well since its installation in August of 2024; there have been no physical issues with the sensor.

This data report covers the date range of August 7, 2024, to September 30, 2024.

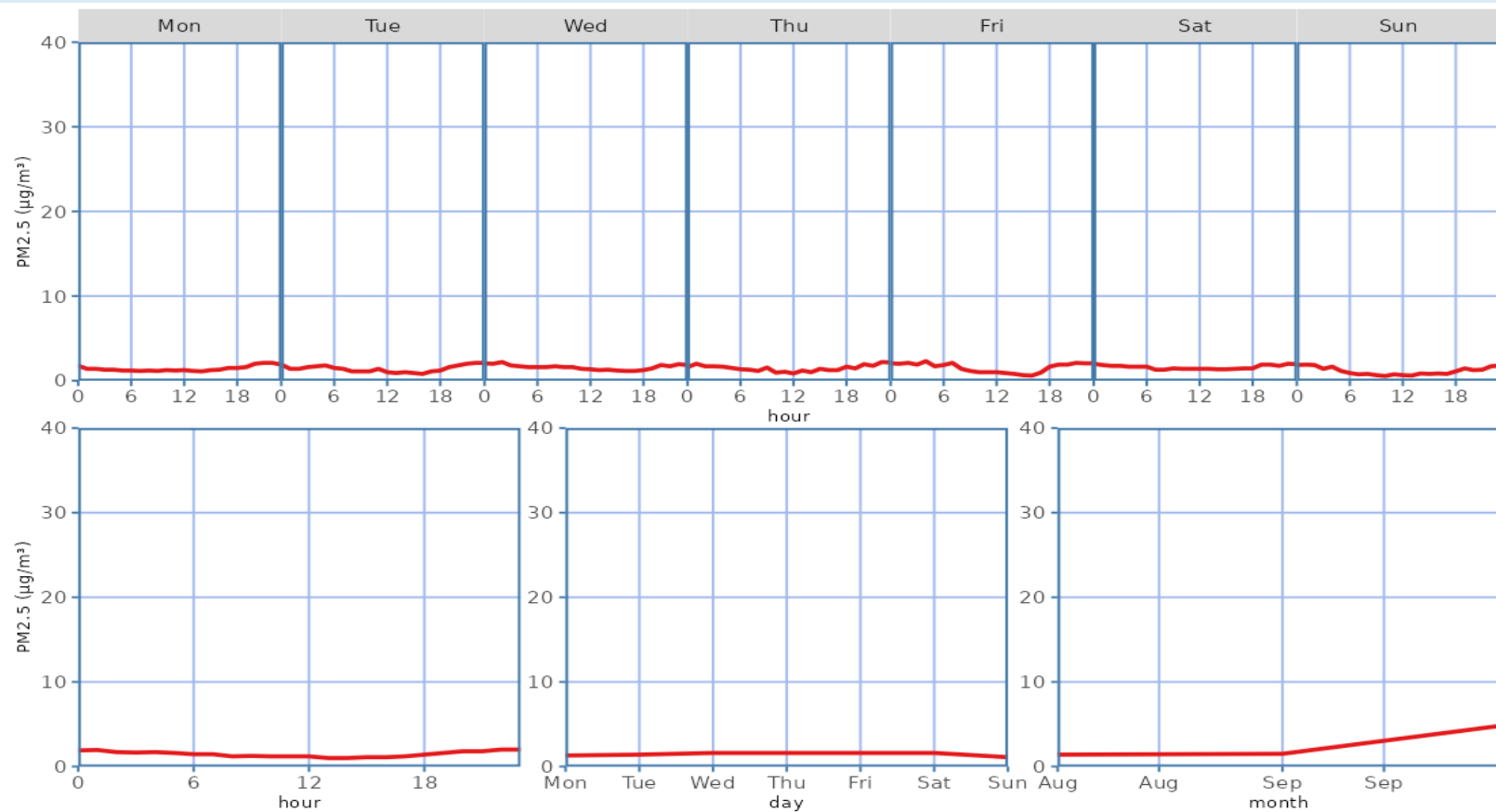


### Daily PM<sub>2.5</sub> Air Quality Index (AQI) for August 7, 2024 - September 30, 2024



# 2024 Summer Season Air Quality Report for Native Village of Chickaloon

## Median PM<sub>2.5</sub> Concentrations for August 7, 2024 - September 30, 2024



### Descriptive Statistics of Air Pollutants\*

Parameter	1-hr PM <sub>2.5</sub> (µg/m <sup>3</sup> )	24-hr PM <sub>2.5</sub> (µg/m <sup>3</sup> )	1-hr PM <sub>10</sub> (µg/m <sup>3</sup> )	24-hr PM <sub>10</sub> (µg/m <sup>3</sup> )	1-hr O <sub>3</sub> (ppb)	1-hr NO <sub>2</sub> (ppb)	1-hr NO (ppb)	1-hr CO (ppb)
<b>Min</b>	0.10	0.50	1.00	0.50	11.70	3.12	1.42	479.23
<b>Mean</b>	1.58	1.58	23.79 **	23.27 **	24.38	14.56	2.41	608.24
<b>1<sup>st</sup> Max</b>	17.20	3.20	1735 **	133 **	47.00	29.56	5.32	1725.10
<b>2<sup>nd</sup> Max</b>	9.00	2.90	789 **	107 **	46.90	28.43	5.07	1695.83

### Data Discussion

Chickaloon reported consistently in the “good” range of the Air Quality Index (AQI; more information about AQI is provided on page 3) for all days of the reporting period, with the exception of one hour of “moderate” AQI on September 30<sup>th</sup> at 8:00pm. Diurnal patterns show little variability of PM<sub>2.5</sub> concentrations across different times of day or days of the week.

\* These statistics are based on preliminary data readings and are intended to provide a brief overview of sensor activity. Finalized data may be obtained upon request and through our annual statistical reports. Data from the community sensor network is non-regulatory and not comparable to the EPA’s National Ambient Air Quality Standards (NAAQS; more information about the EPA NAAQS is provided on page 3).

\*\* PM10 particle sensors are influenced by weather events such as fog and snow due to hygroscopic effects, creating false maximum values that do not pose health risks.



## Resources



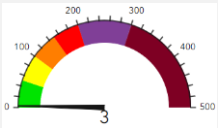
[Alaska Department of Environmental Conservation](#)



[EPA NAAQS Information](#)



[Air Quality Index \(AQI\) Basics](#)



[Real-Time AQI Data](#)



## Data Access

To access historical data for your community's sensor, please email a request to: [AMQA-Data-Request@alaska.gov](mailto:AMQA-Data-Request@alaska.gov) . Data will be provided in Excel or .csv format.

## Questions or Comments?

Please contact us!

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