



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

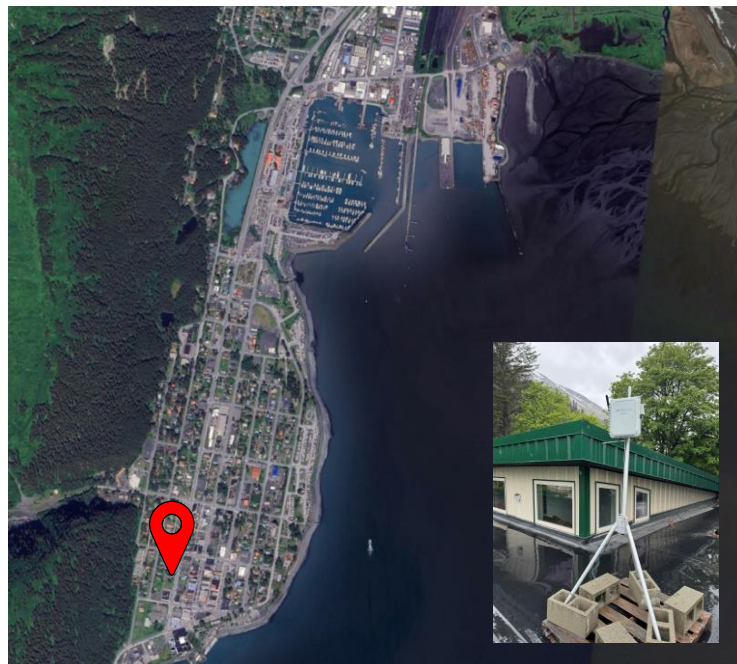
2024 Summer Season Air Quality Report for Qutekcak Native Tribe, Seward, Alaska

The QuantAQ MODULAIR sensor in Seward (221 3rd Ave, Seward, AK 99664) was installed on 06/05/2024.

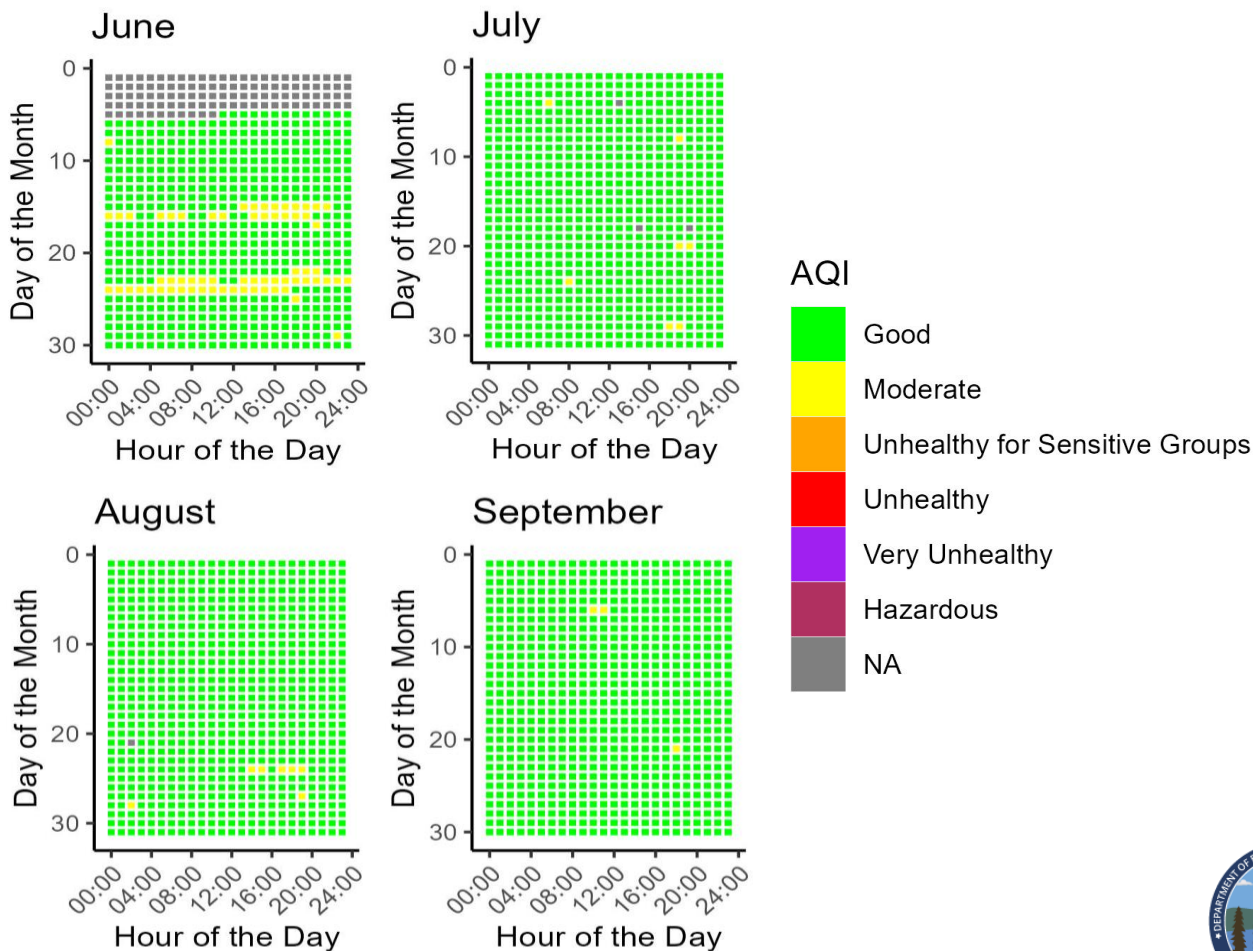
The sensor measures for carbon monoxide (CO), ozone (O₃), nitrogen oxide (NO), nitrogen dioxide (NO₂), particulate matter (PM_{2.5} and PM₁₀), temperature (°C), and relative humidity (RH).

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

This data report covers the date range of June 5, 2024, to September 30, 2024.

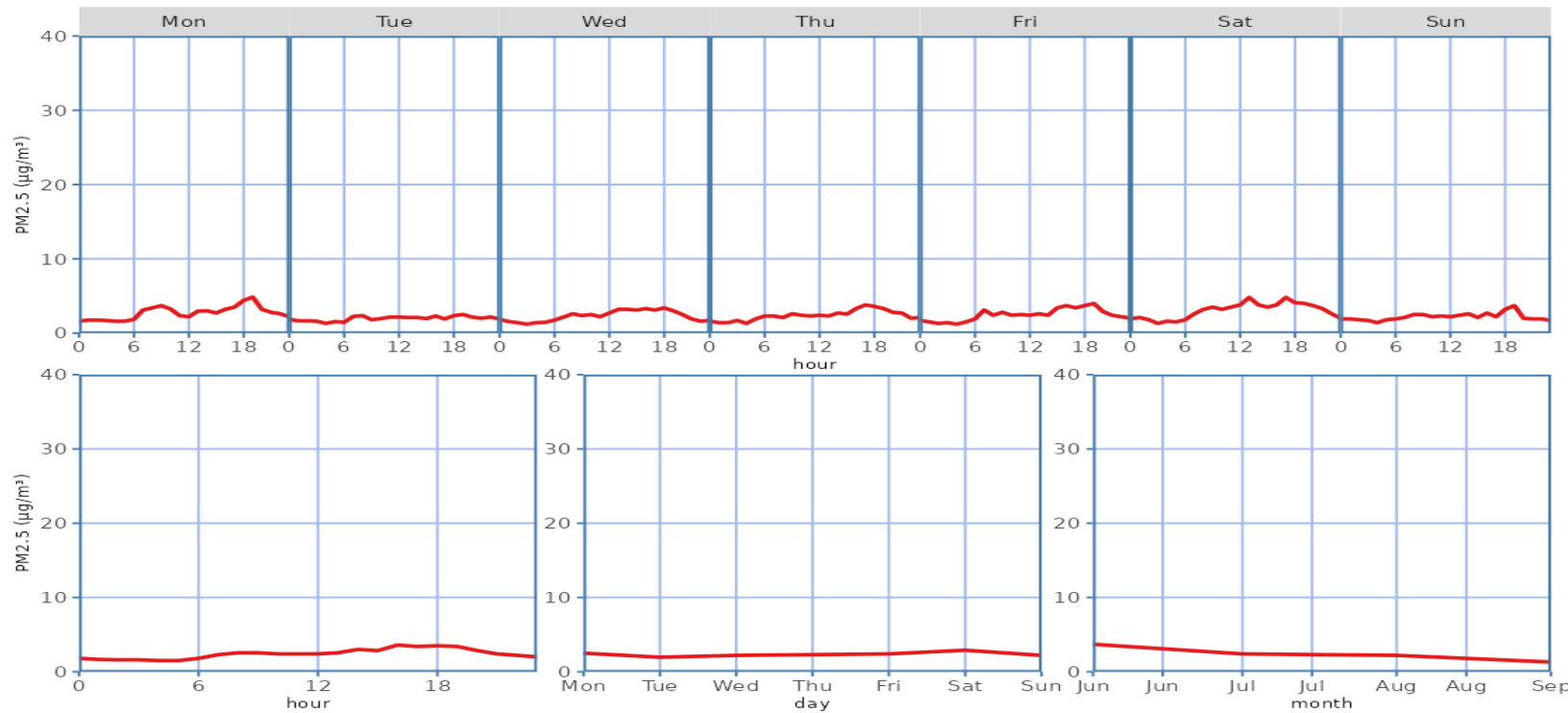


Daily PM_{2.5} Air Quality Index (AQI) for June 5, 2024 - September 30, 2024



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Median PM_{2.5} Concentrations for June 5, 2024 - September 30, 2024



Descriptive Statistics of Air Pollutants*

Parameter	1-hr PM _{2.5} (µg/m³)	24-hr PM _{2.5} (µg/m³)	1-hr PM ₁₀ (µg/m³)	24-hr PM ₁₀ (µg/m³)	1-hr O ₃ (ppb)	1-hr NO ₂ (ppb)	1-hr NO (ppb)	1-hr CO (ppb)
Min	0.00	0.20	0.00	0.20	8.40	2.59	1.41	217.42
Mean	2.93	2.92	21.04 **	20.53 **	27.22	15.93	2.60	285.02
1 st Max	30.70	11.30	1144 **	62 **	56.80	31.48	10.21	812.78
2 nd Max	20.20	10.10	627 **	60 **	52.30	30.57	9.90	649.05

Data Discussion

Seward's PM_{2.5} ambient air quality for the summer 2024 season fell mostly in the “good” range of the Air Quality Index (AQI; more information about AQI is provided on page 3), with several days in June reporting “moderate” AQI levels, and occasional, very brief periods of “moderate” levels in July through September. Daily patterns show increased PM_{2.5} concentrations in the late afternoon/early evenings. Diurnal patterns show little variability of PM_{2.5} concentrations across different days of the week. From June to September, June showed the highest concentrations of PM_{2.5}.

* 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



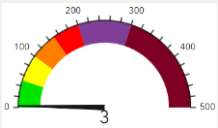
[Alaska Department of Environmental Conservation](#)



[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 . Data will be provided in Excel or .csv format.

Questions or Comments?

Please contact us!

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