



Office of the Mayor

Satya Rhodes-Conway, Mayor
City-County Building, Room 403
210 Martin Luther King, Jr. Blvd.
Madison, WI 53703
Phone: (608) 266-4611 | Fax: (608) 267-8671
mayor@cityofmadison.com
cityofmadison.com

To: City of Madison Board of Park Commissioners

From: Jessica Price, Sustainability and Resilience Manager

Date: July 5, 2024

Subject: Air Quality Monitoring Project – request to locate air quality sensors at 5 Madison Parks.

Project Background

The City of Madison Sustainability and Resilience program is leading a new, collaborative project to install a city-wide network of air quality sensors to help understand air pollution in our community. These sensors will measure particulate matter pollution - small particles that can cause heart and breathing problems.

We aim to install ~70 air quality sensors across the City – one co-located with each of the two DNR regulatory sensors in Madison and 1 in each of the 2018 census tracts (our grant application was submitted before the most recent update to census tract boundaries). We are using QuantAQ's [MODULAIR-PM](#) sensors to measure PM1, PM2.5, PM10, temperature, and humidity. They are powered by a solar panel and share data over the cell network – so no need for a hardwired power source or data connection.

Once installed, air quality data from the network will be shared on the [Love My Air](#) platform and analyzed to understand spatial and temporal trends in particulate matter pollution across Madison. The Love My Air platform was developed in Denver and is now expanding to other areas. Two other air quality monitoring projects in Wisconsin funded through the same grant opportunity will also use Love My Air. The [Love My Air Wisconsin](#) site shows some of the sensors already up and running in Milwaukee.

Data from Madison's sensor network will help our community understand the amount, location, and potential sources of particulate matter pollution. Better information about air quality will help us know when to take action to protect our health and help our community develop strategies to reduce pollution where it is highest. The City is partnering with The Foundation for Black Women's Wellness, Latino Health Council of Dane County, The Hmong Institute, University of Wisconsin-Madison and Public Health Madison and Dane County. This work is funded by a grant from the U.S. Environmental Protection Agency (EPA).

The [Air Quality page](#) on our website provides a general overview of the project, and I've attached the full project scope of work from our EPA-grant.

Request

The Sustainability and Resilience program is requesting to install an air quality sensor at 5 Parks locations – Manchester Park, Highland Manor Park, Monona Golf Course, Brigham Park, and Reindahl Park. The sensors would collect data for the remaining 2 years of the project (through 2026). If the sensors are still functioning well at that point, we would like to continue operating the network so long as we have the budget, for up to five years.

