



AIR POLLUTION CONTROL DISTRICT

Purpose:

The Louisville Metro Air Pollution Control District (APCD) supports the research and development of air sensors that can provide important insights into local air quality. APCD is offering limited access to one of its regulatory monitoring sites for the following purposes:

- To support air quality research and measurements;
- To gather data related to comparability of low-cost sensors to U.S. Environmental Protection Agency (“EPA”)-certified regulatory monitoring instruments; and
- To provide our community the opportunity to compare their sensors’ measurements with data collected by EPA-certified regulatory monitoring instruments at the same location.

Air Sensor Collocation at Cannons Lane National Core (“NCore”) Air Monitoring Site:

APCD’s NCore site is located on the grounds of Bowman Field, at 2730 Cannons Lane, Louisville, KY 40204. Federal Reference Method and Federal Equivalent Method monitors operate at the site for a wide variety of criteria pollutants, including PM₁₀, PM_{2.5}, Ozone, Nitrogen Dioxide (NO₂), and Sulfur Dioxide (SO₂). The data from these instruments are available upon request and are available online in real-time at Louisville Air Watch (<https://airqualitymap.louisvilleky.gov/>).

Air sensor collocation requests are assessed on an individual basis and are subject to availability of physical space and available power receptacles. APCD is unable to provide Wi-Fi access for data streaming. All access to the site (including deployment, maintenance, data retrieval, and device retrieval) must be conducted under the supervision of APCD personnel. Individuals and organizations with approved collocations are expected to coordinate site access with APCD personnel at least five (5) working days prior to the date of desired access. Collocation site participants must be 18 years of age or older or accompanied and supervised by an adult who is 18 years of age or older (e.g., parent, guardian, or teacher).

Application Process (please contact APCD at air@louisvilleky.gov for assistance as needed):

1. Complete the Application Coversheet.
2. Prepare a short description of your project, outlining the following information:
 - a. Study Design (including research question(s), methodology, and plan for data processing/analysis approach);
 - b. Sensor Technologies;
 - c. Study Timeline (including duration of study and proposed access times to the site).
3. Send the Application Coversheet and Project Description to air@louisvilleky.gov.

Data Reporting and Follow Up:

A condition for participation in an air sensor collocation project at the NCore site is that all data collected on collocated sensors must be shared with APCD within thirty (30) days of the study’s



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conclusion (or every three months should the study last longer than three months). This information will be used to increase collective air sensor evaluation and community understanding of emerging technologies. APCD reserves the right to use these data for additional analysis of local air quality.

APCD wants to learn from your research. We appreciate you sharing your conclusions and interpretations made during your study. Please e-mail APCD with that data and any findings you choose to share at air@louisvilleky.gov. If you feel the information could also be supplemented by presentation otherwise, feel free to schedule a presentation within sixty (60) days of the study's conclusion. If the results are included in a published report, we ask that you share these materials with APCD at least ten (10) business days prior to publication. All information submitted in connection with this application is subject to the Kentucky Open Records Act and may be releasable to the public upon request.



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Air Sensor Collocation Application Coversheet

Please allow a minimum of ten (10) business days for staff to process this request. You will be contacted via e-mail if further information is requested and when a decision has been made.

Name: _____ Phone: _____

Organization: _____ Professional Title: _____

Address: _____

E-mail: _____

Please provide a brief description of your proposed study (1-2 sentences).

Proposed Sampling Start Date: _____

Proposed Sampling End Date: _____

Monitor Make and Model: _____

Pollutant Measured: _____

I release and agree to indemnify and hold harmless the Louisville Metro Air Pollution Control District and Louisville Metro Government, their employees, agents, and/or other representatives from any and all losses, claims, suits, causes of actions, damages, fines, penalties, costs, liabilities, and expenses while engaging in activities related to air sensor collocation.

I agree to submit all data collected during my collocation study to APCD within thirty (30) days of the study's conclusion, or every three months, should the study last longer than three months.

I agree to share all conclusions made from this study with APCD within sixty (60) days of the conclusion of the study. Should the results be included in a published report, I will share these materials with APCD at least ten (10) business days prior to publication.

Signature: _____ Date: _____

Please return this signed Coversheet along with your Project Description to APCD by e-mail:
air@louisvilleky.gov.



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Air Sensor Collocation Study Project Description

Please provide a short project description that explains (a) your study design (including research question(s), methodology, and plan for data processing/analysis approach), (b) sensor technologies used in your study, and (c) a study timeline (including duration of study and proposed access times to the site).