



## City of Cleveland Memorandum

Frank G. Jackson, Mayor

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To: Barbara Langhenry  
Director of Law

From: Brian Kimball, Interim Director  
Department of Public Health *BK*

Date: May 25, 2021

RE: Air Quality

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### REQUEST LEGISLATION

The Cleveland Department of Public Health is requesting legislation, authorizing the Director of the Department of Public Health to enter into one or more agreements with the Ohio Department of Health to reimburse the City of Cleveland for monitoring, collecting, and analyzing radiation levels in the vicinity of the Burke Lakefront Airport, for a period of two years. The reimbursement fund shall be deposited into Fund # 10-812. The term is from: July 1, 2021 – June 30, 2023.

Cleveland Department of Public Health, Division of Air Quality (DAQ) serves as Ohio EPA's Delegated Agent for air pollution control for all of Cleveland and Cuyahoga County. The Division of Air Quality is driven by its primary objective to ensure that regulated air pollutants from industrial sources are in compliance with federal, state and local regulations and to monitor levels of criteria air pollutants throughout Cleveland and Cuyahoga County.



Cleveland Department of Public Health

**CITY OF CLEVELAND  
DIVISION OF AIR QUALITY**

**Cleveland Burke Lakefront Airport  
Environmental Monitoring Services  
RFQ - DOH47099**

Prepared By:  
City of Cleveland  
Department of Public Health  
Division of the Air Quality  
75 Erieview Plaza – 2<sup>nd</sup> Flr.



Cleveland Department of Public Health

**CITY OF CLEVELAND**  
**DIVISION OF AIR QUALITY**  
Cleveland, OH 44114

May 20, 2021

**Name:**

City of Cleveland  
Department of Public Health  
Division of Air Quality

**Address:**

City of Cleveland  
Department of Public Health  
C/O Division of the Air Quality  
75 Erieview Plaza - 2<sup>nd</sup> Floor  
Cleveland, OH 44114

**Federal tax identification #**

34-6000646

**Contact Information:**

Primary Contact: Bryan Sokolowski  
Title: Chief of Air Monitoring, Division of Air Quality  
Telephone: (216) 664-7663  
Cell #: (216) 857-7466  
Fax: (216) 420-7740  
E Mail: [bsokolowski@city.cleveland.oh.us](mailto:bsokolowski@city.cleveland.oh.us)

**BUDGET**

**Amount of Total Proposed Costs:**

1st year budget amount (July 1, 2021 through June 30, 2022)

208hrs for a total of \$10,750.90

2nd year budget amount (July 1, 2022 through June 30, 2023)

208hrs for a total of \$10,750.90

**TOTAL PROPOSED COSTS: \$21,501.80**



Cleveland Department of Public Health

**CITY OF CLEVELAND  
DIVISION OF AIR QUALITY**

**Project Title:**

Environmental Sampling/Monitoring  
Burke Lakefront Airport

**PROJECT REQUIREMENTS**

- 6.1. The Cleveland Department of Public Health which maintains the health and wellness of the City of Cleveland and works in partnership with health care facilities to implement long term planning mechanisms to ensure the safety and wellness for the citizens in the City of Cleveland.

Cleveland Department of Public Health, Division of Air Quality (DAQ) serves as Ohio EPA's Delegated Agent for air pollution control for all of Cleveland and Cuyahoga County. The Division of Air Quality is driven by its primary objective to ensure that regulated air pollutants from industrial sources are in compliance with federal, state and local regulations and to monitor levels of criteria air pollutants throughout Cleveland and Cuyahoga County.

The Division of Air Quality is composed of three sections, which work together to achieve the objective of meeting Federal clean air standard. The Field Monitoring Section measures and obtains air quality data at 21 sites. These measurements determine the overall air quality in the city and county. The Engineering Section operates the permit system, which requires all industrial sources of air pollution to register and obtain permits. The permit system identifies sources and establishes limits on the amount of emissions released into the atmosphere. The Enforcement Section maintains surveillance on pollution sources and responds to complaints from the public about a variety of air pollution problems.

- 6.2 The Air Monitoring Section is currently staffed with twelve full time qualified employees. The section services 31 independent monitoring sites with a total of 65 ambient air collection devices which consists of intermittent and continuous instruments. The Air Monitoring Section has been providing the radiation collection service to the Ohio Department of Health, Bureau of Radiation Protection for over 18 years.

The Division of Air Quality are contractual agents of the Ohio Environmental Protection Agency with a grant budget of 2.1 million dollars



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**References:**

Ohio Environmental Protection Agency  
Contact: Paul Koval, Air Monitoring Section  
(614) 644-3615

United States Environmental Protection Agency, Region 5  
Contact: Bilal Qazzaz, Air Monitoring and Analysis Section  
(312) 353-2325

Ohio Environmental Protection Agency  
Contact: Cindy DeWulf, Division of Air Pollution Control  
(614) 644-3606

**6.3. Project Narrative (Work Plan)**

The Cleveland Division of Air Quality will collect and submit to its contract laboratories for analysis samples taken from the monitor once per week. The Cleveland Division of Air Quality will conduct the monitoring program for a period of two years.

Environmental surveillance for ODH in Cleveland consists of a continuous low-volume air sampler located at the Burke Lakefront Airport. This air sampler provides data on levels of environmental radioactivity in the air in a major population area located between the Davis-Besse Nuclear Power Station in Ottawa County and Perry Nuclear Power Plant in Lake County. This sampler is not co-located with any utility sampler.

The Cleveland Division of Air Quality will collect and submit to its contract laboratories for analysis samples taken from the monitor once per week. The Cleveland Division of Air Quality will conduct the monitoring program for a period of two years. The day of the week for filter removal and processing will be Tuesday unless otherwise directed by the contracting agency. In accordance with established sampling procedures, filter papers and charcoal canisters are changed weekly by Cleveland Division of Air Quality monitoring personnel. The filters and canisters are then shipped by carrier to the ODH Laboratory located in Reynoldsburg, Ohio, for analysis. At the laboratory, gross beta analysis is performed on each filter paper. The weekly filter papers are composited for a quarterly gamma isotopic analysis. The charcoal canisters are analyzed for the



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## **CITY OF CLEVELAND DIVISION OF AIR QUALITY**

presence of iodine-131 (I-131). Time expected to complete the required sampling task is approximately 4 hours.

Air Monitoring Chief with over 21 years of experience in air monitoring

No subcontractors will be used for sampling collection. All functions will be performed by the Cleveland Division of Air Quality Air Monitoring Section.

### **6.3.A Project Implementation**

Air particulates are collected on 47mm Millipore Type AA, 0.80 $\mu$ m filter papers, or Pall Gelman E-47mm glass fiber filters. Air iodine is collected in a Scott TEDA impregnated charcoal cartridge mounted in tandem with the air particulate filter in a quick disconnect assembly. The average sampling rate is 3-4 cubic feet per minute (CFM). Procedures as follows:

#### **LOADING THE QUICK DISCONNECT ASSEMBLY**

- Unscrew the very top portion of the assembly.
- Place Millipore Paper Filter Type AA, pore size 0.8  $\mu$ m or Pall Gelman E-47mm glass fiber filter in place.
- Screw top back on.
- Unscrew middle section of assembly.
- Check the seal, which sits under the cartridge to insure it is still intact and not damaged. Notify ODH Bureau of Radiation protection if a new one is needed.
- Place charcoal cartridge in place making sure that the end of the cartridge with **THE LIP ON IT IS FACING UP**.
- Screw sections back together **VERY SECURELY** so that there is no rattling noise when assembly is shaken.

#### **SAMPLER OPERATION**

- Turn off the sampler.
- Record the running time meter reading (in hours).
- Zero the running time meter.
- Record the flow rate meter reading for end of the sampling period. (Note: This is also the start reading for the next sample).
- Remove quick disconnect assembly and replace it with the new loaded one.
- Turn the sampler back on.
- Complete data sheet and unload quick disconnect assembly back in office.



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**UNLOADING THE ASSEMBLY**

- When removing the filter papers **USE TWEEZERS**. The air filter should be handled with care when dust loading is observed because particulate matter is easily removed from the filter thus invalidating the analysis.
- Place filter paper in 47mm plastic petri slide so that the collection side of the filter paper is facing up. Place lid on petri slide dish and secure with tape.
- Remove cartridge and place in baggie provided.
- Ship filter paper and cartridge with respective sample data sheets to the ODH Laboratory located in Reynoldsburg, Ohio.

**Data Sheet / Chain of Custody**

A data sheet will be completed for every sample and will also act as a chain of custody. All samples will be sent to the ODH laboratory by the specified delivery time. Sample data sheet has been enclosed.

The quick disconnect filter assembly should be loaded and unloaded in the air quality office at 75 Erieview Plaza 1st floor. This will minimize possible loss of filter paper, or damage to filter by rain, wind, snow, etc.

In the event that the designated environment monitoring technician cannot completed the required task the duties will be assigned to another monitoring technician knowledgeable in the collection of the radiation samples.

No problems are anticipated except those related to weather, floods or acts of God, airport entry availability, or events contributed to power outages at the collection site. In the event of the previously mentioned circumstances the filters would be process at the first available opportunity when safe to complete.

**The principal office is the following:**

City of Cleveland  
Department of Public Health  
Division of the Air Quality  
75 Erieview Plaza – 1st Floor  
Cleveland, OH 44114

Time expected to complete the required sampling task is approximately 4 hours.



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In the event that the designated environment monitoring technician cannot completed the required task the duties will be assigned to another monitoring technician knowledgeable in the collection of the radiation samples.

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Cost Proposal

Compensation and Narrative

The project period shall become effective on the date of execution by the Director of the Department of Public Health for the period starting from July 1, 2021 and shall remain for a period of two (2) years through June 30, 2023.

Target Dates and Milestones:

Budget period one would encompass the first year of the project (July 1, 2021 through June 30, 2022) and includes all costs associated with any training, as well as operating and maintaining the equipment. Total compensation as outlined below, \$10,750.90

Budget period two encompasses costs associated with the second year of operation (July 1, 2022 thru June 30, 2023). Total compensation as outlined below, \$10,750.90

Cleveland Division of Air Quality intends to utilize a contracted delivery service or agency personnel to deliver the samples to the contracted CDC laboratory. Current estimates for a contractor to deliver the samples to the designated Ohio laboratory in Reynoldsburg, Ohio from Cleveland is as follows:





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Budget Summary

The annual cost for the 1<sup>st</sup> year of service is \$10,750.90 which includes labor cost including fringe benefits, travel, shipping and incidentals which is as follows.

1<sup>st</sup> Year

A summary of costs is provided for the following categories:

Personnel Cost (including fringes and overheads):	<b>\$10,750.90</b>
Equipment:	\$ 0.00
Supplies:	\$ 0.00
Training	\$ 0.00
Administrative Costs:	<u>\$ 0.00</u>
<b>TOTAL first year cost</b>	<b>\$10,750.90</b>

Budget to administer Radiation Program (Year One)	
<b>Personnel</b>	
Salary – Salary – 4 hrs/per week for 52 weeks @ 51.69 per/hr. including	
Fringe Benefits	\$10,750.90
<b>Total Personnel &amp; Benefits</b>	<b>\$10,750.90</b>
<b>Equipment</b>	\$0.00
<b>Various Supplies</b>	\$0.00
<b>The following items will be provided by ODH unless otherwise notified</b>	
Scott's Radioiodine Sampling Cartridge p/n: 803575-01(1 per week)	\$0.00
Millipore type AA, 47mm dia. filter paper, Cat. No. AAWPO4700 (1 per week)	\$0.00
ODH Sample and Laboratory Data Sheets – 2 sheets used per week (one for Cartridge and one for filter paper)	\$0.00
Hi-Q Gold Anodized Combination Filter Paper & Cartridge Holder Cat. No. RVH-35	\$0.00
Millipore plastic 47mm diameter filter paper holders (1 per week)	\$0.00
<b>Total</b>	<b>\$0.00</b>
<b>Total</b>	<b>\$10,750.90</b>
<b>TOTAL 1<sup>st</sup> YEAR PROJECTED COST</b>	<b>\$10,750.90</b>



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Budget Summary

The annual cost for the 2nd year of service is \$10,750.90 which includes labor cost, travel, shipping and incidentals which is detailed below.

2nd. Year

A summary of costs is provided for the following categories:

Personnel Cost (including fringes and overheads):	<b>\$10,750.90</b>
Equipment:	\$ 0.00
Supplies:	\$ 0.00
Training	\$ 0.00
Administrative Costs:	<u>\$ 0.00</u>
<b>TOTAL first year cost</b>	<b>\$10,750.90</b>

Budget to administer Radiation Program (Year One)	
<b>Personnel</b>	
Salary – 4 hrs/per week for 52 weeks @ 51.69 per/hr. including	
Fringe Benefits	\$10,750.90
<b>Total Personnel &amp; Benefits</b>	<b>\$10,750.90</b>
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ODH Sample and Laboratory Data Sheets – 2 sheets used per week (one for Cartridge and one for filter paper)	\$0.00
Hi-Q Gold Anodized Combination Filter Paper & Cartridge Holder Cat. No. RVH-35	\$0.00
Millipore plastic 47mm diameter filter paper holders (1 per week)	\$0.00
<b>Total</b>	<b>\$0.00</b>
<b>Total</b>	<b>\$10,750.90</b>
<b>TOTAL 2nd YEAR PROJECTED COST</b>	<b>\$10,750.90</b>



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**Other Submission**

- A completed IRS W-9 form (Taxpayer Identification and Certification) has been completed and is on file
- The completed Vendor Information Form has been completed and is on file.
- The Declaration Regarding Material Assistance/Nonassistance to a Terrorist Organization (DMA) has been completed and signed and is on file.