



November 13, 2018

Mr. Phillip Francis
Director of Operations
Livonia Public Schools
15125 Farmington Road
Livonia, Michigan 48154
pfrancis@livoniapublicschools.org

RE: **Proposal #AE180928 Revision 1**
Lead Drinking Water Sampling
Twenty-Seven (27) District Buildings

Dear Mr. Francis:

Arch Environmental Group, Inc. is pleased to provide Livonia Public Schools with this proposal for the above referenced services. Our proposal includes the following materials for your review:

- Proposal (Scope of Work & Fee Schedule)
- Acceptance of Proposal
- Terms & Conditions (at <http://archenvgroup.com/news-and-reference/terms-and-conditions.htm>)

Arch Environmental Group, Inc. is looking forward to working with you and your team at Livonia Public Schools. If you have any questions regarding our proposal, please feel free to contact me at (248) 426-0165 ext. "314" [office] or (734) 239-1424 [mobile].

Sincerely,

Arch Environmental Group, Inc.
Environmental Services

A handwritten signature in black ink, appearing to read 'Jenna Gillmore Sendra'.

Jenna Gillmore Sendra
Manager, cleanWATER

Attach.

File: AE180928

Arch Environmental Group, Inc.
PROPOSAL #AE180928
SCOPE OF WORK & FEE SCHEDULE

Arch Environmental Group, Inc. (AEG) is pleased to provide Livonia Public Schools with this proposal to provide “Drinking Water Sampling at Twenty-Seven (27) District Buildings”. This proposal covers work summarized in the Scope of Work provided below.

Scope of Work

Arch Environmental Group, Inc. proposes to provide the following services in conjunction with the Drinking Water Sampling at Twenty-Seven (27) District Buildings:

- *Collect Lead Drinking Water Samples*

Elementary Schools

Buchanan Elementary School, 16400 Hubbard, Livonia, Michigan 48154	7 samples
Cass Elementary School, 34633 Munger, Livonia, Michigan, 48154	7 samples
Cleveland Elementary School, 28030 Cathedral, Livonia, Michigan, 48150	7 samples
Coolidge Elementary School, 30500 Curtis, Livonia, Michigan 48152	7 samples
Grant Elementary School, 9300 Hubbard, Livonia, Michigan 48150	7 samples
Hoover Elementary School, 15900 Levan, Livonia, Michigan 48154	7 samples
Hayes Elementary School, 30600 Louise, Westland, Michigan 48158	7 samples
Jackson Early Childhood Center, 32025 Lyndon, Livonia, Michigan 48150	7 samples
Kennedy Elementary School, 14201 Hubbard, Livonia, Michigan 48152	7 samples
Marshall School, 33901Curtis Road, Livonia, Michigan 48152	7 samples
Randolph Elementary School, 14470 Norman, Livonia, Michigan 48154	7 samples
Rosedale Elementary School, 36651 Ann Arbor Trail, Livonia, Michigan 48150	7 samples
Roosevelt Elementary School, 30200 Lyndon, Livonia, Michigan 48154	7 samples
Niji-Iro Elementary School, 36611 Curtis Road, Livonia, Michigan 48152	7 samples
Webster Elementary School, 32401 Pembroke, Livonia, Michigan 48150	7 samples

Upper & Middle Schools

Cooper Upper Elementary School, 28550 Ann Arbor Trail, Westland, Michigan 48185	4 samples
Johnson Upper Elementary School, 8400 Hix, Westland, Michigan 48185	4 samples
Riley Upper Elementary School, 15555 Henry Ruff, Livonia, Michigan 48154	4 samples
Emerson Middle School, 29100 W. Chicago, Livonia, Michigan 48150	4 samples
Frost Middle School, 14041 Stark, Livonia, Michigan 48154	4 samples
Holmes Middle School, 16200 Newburgh, Livonia, Michigan 48154	4 samples

High Schools

Churchill High School, 8900 Newburgh Road, Livonia, Michigan 48150	4 samples
Franklin High School, 31000 Joy Road, Livonia, Michigan 48150	4 samples
Stevenson High School, 33500 Six Mile Road, Livonia, Michigan 48152	4 samples

Other Schools

Administration Building, 15125 Farmington Rd, Livonia, MI 48154	3 samples
Garfield Community School, 10218 Arthur St, Livonia, MI 48150	3 samples
Livonia Career Technical Center, 8985 Newburgh Road, Livonia, Michigan 48150	3 samples

- *Provide Drinking Water Sample Analysis*

All samples will be analyzed for lead using EPA 200.8 rev5.4. All samples will be analyzed by an independent third-party accredited drinking water laboratory.



- *Provide Letter Report & Sampling Table*
At the completion of sampling and after receipt of laboratory results, AEG will provide a cover letter and results table, including analytical results and chain of custody.
- *Conduct an Inventory of Potable Drinking Water Outlets*
AEG shall conduct an inventory of all potable drinking water outlets. These locations include hallway drinking fountains (coolers, bubblers, bottle fill stations), classroom faucets, classroom bubblers, classroom combination sinks, kitchen prep sinks, kitchen sprayers, kitchen kettles, ice machines and plumbed coffee machines. AEG will not consider the following potable drinking water locations; Art Room sinks, Science Room sinks, Bathroom hand wash sinks, slop sinks, and other designated hand wash sinks such as those in Kitchens.
- *Provide Map with Outlet Type & Location*
At the completion of the inventory, AEG will prepare a building floor map with outlet type and location.

Fee Schedule

Arch Environmental Group, Inc. proposes to complete all the identified activities at Twenty-Seven (27) District Buildings at the following rate schedule:

Inventory	\$5,599.00
Lead Sampling	\$9,423.00
TOTAL	\$15,022.00

If additional sampling activities are requested as part of the drinking water sampling services, AEG will submit a progress billing for all sampling services (collection and sample analysis) to date. The final invoice will be submitted with all completed project reports.

Project Conditions/Exclusions

The above referenced Scope of Work and Fee Schedule include the following Special Project Conditions/Exclusions:

- Samples will be collected from representative potable drinking water locations before any water is used. Potable locations include hallway drinking fountains (coolers and bubblers), classroom faucets and bubblers, and kitchen prep and rinse sinks. For the purpose of this sampling, AEG will not consider the following potable drinking water locations; Art Room sinks, Science Room sinks, Bathroom hand wash sinks, slop sinks, and other designated hand wash sinks such as those in Kitchens.
- If the District has specific drinking water locations to sample, the consultant will collect the samples at those locations. Otherwise, sample will be collected at random locations in the building.
- If the District would like to conduct the sampling over winter, spring or summer break, the District will need to run each tap/drinking fountain for a minimum of two minutes the day prior to the scheduled first draw sampling. Sampling over breaks is not recommended.
- To collect a first draw sample, the water must be stagnant for at least 8 hours, but not more than 18 hours, before a sample is taken. Be sure to confirm that there will be no evening activities the evening the night before sampling.
- Costs are not included for follow-up sampling if requested from the District based on results analyzed above the EPA's action level published for lead.
- The District shall direct AEG regarding the Action Level to be used. The National Primary Drinking Water Regulations (NPDWR) Action Level for lead is 15 ug/L (15 ppb). Beginning January 1, 2025, the action level for lead in the State of Michigan will be lowered to 12 ug/L (12 ppb). In August 2016, the MDEQ recommended school districts use the contaminate level goal of 5 ug/L (5 ppb).



Schedule

The above referenced Scope of Work and Fee Schedule are based on completion of the project per the following Project Schedule:

- Inventories will be conducted during evenings and weekends prior to sampling.
- Samples will be collected over five (5) Saturdays.
- Laboratory results will be available approximately five (5) to seven (7) business days following completion of sampling activities.
- Verbal results or an informal notification via email will be provided upon receipt of lab results. A final report will be issued within five (5) business days of receipt of the lab results.

Qualifications

AEG will utilize sampling consultants certified by the Michigan Department of Environmental Quality D-5 Waterworks Systems Operators. This certification is granted by the MDEQs Office of Drinking Water and Municipal Assistance only after having carefully considered education, professional experience and established competence as written in Public Act 399, of 1976, The Michigan Safe Drinking Water Act.

AEG will utilize a 3rd party laboratory for this project, and has selected Brighton Analytical, Inc. of Brighton, Michigan. Brighton Analytical is certified by the MDEQ to conduct lead and copper analysis for drinking water. Although less expensive labs are available with certain necessary qualifications, AEG feels that the standards employed by Brighton Analytical can be upheld during litigation.



ACCEPTANCE OF PROPOSAL

Project Summary

Proposal No.: AE180928 Revision 1
Client: Livonia Public Schools
Project Site: Twenty-Seven (27) District Buildings
Project Summary: Lead Drinking Water Sampling & Inventory

Scope-of-Services

Arch Environmental Group, Inc.'s (AEG) proposed Scope of Work and associated Fee Schedules are based on AEG's understanding of the site conditions and Livonia Public Schools' needs and objectives. If, as a result of knowledge gained during an investigation or other information that becomes known, AEG feels that a change in level of effort or direction is warranted, AEG will inform Livonia Public Schools of the proposed changes in the Scope of Work so that negotiation can be accomplished.

Agreement

The undersigned agrees to the attached Proposal, in the amount of \$15,022.00 and to the General Terms and Conditions associated with this project and are located at http://archenvgroup.com/news-and-reference/terms-and-conditions.htm.

Approval

Signature
Name
Title
Company ("Client")
Date of Acceptance of Proposal
Purchase Order # (If Applicable)

If this proposal and the General Terms and Conditions are acceptable, please return a signed copy (along with a purchase order which references this cost proposal in its entirety, if applicable) to:
via fax to (248) 427-0305 [or]
via email at proposals@archenvgroup.com

If you do not have access to the Internet to review our General Terms and Conditions, please contact our Administrative Support Group at (248) 426-0165 for a hard copy. By signing this document you are confirming that our General Terms and Conditions have been read and accepted.

