



CITY OF HAMILTON
PUBLIC HEALTH SERVICES
Healthy Environments Division

TO:	Mayor and Members of Board of Health
COMMITTEE DATE:	May 14, 2018
SUBJECT/REPORT NO:	Clean Air Hamilton 2018 Programs (BOH18020) (City Wide)
WARD(S) AFFECTED:	City Wide
PREPARED BY:	Trevor Imhoff (905) 546-2424, Ext. 1308
SUBMITTED BY & SIGNATURE:	Kevin McDonald Director, Public Health Services - Healthy Environments Division Healthy and Safe Communities Department

RECOMMENDATION

That the following vendors, identified by Clean Air Hamilton for the delivery of 2018 air quality programs to be funded through the 2018 Public Health Services operating budget, be approved:

- (i) Cycle Hamilton Coalition Inc. for the delivery of Friendly Streets Hamilton (\$12,000);
- (ii) Green Venture and Corr Research Inc. for the delivery of Fresh Air for Kids with Anti-Idling (\$10,700), and;
- (iii) Green Venture for the delivery of Bus Brains – School Bus Monitoring (\$5,877).

EXECUTIVE SUMMARY

Hamilton Public Health Services (PHS) provides approximately \$40,000 in annual base funding to Clean Air Hamilton for the purpose of funding community programs, as well as other projects that inform and educate citizens about the quality of air in our City, and programs that aim to directly improve air quality in Hamilton.

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This report describes the following three initiatives and seeks approval from the Board of Health for the associated funding costs:

1. Friendly Streets Hamilton (\$12,000)
2. Fresh Air for Kids (\$10,700)
3. Bus Brains – School Bus Monitoring (\$5,877)

If approved, the funding for these programs would come from the 2018 PHS operating budget.

Alternatives for Consideration – See Page 5

FINANCIAL – STAFFING – LEGAL IMPLICATIONS

Financial: The programs identified by Clean Air Hamilton for delivery in 2018 total \$28,577. This funding will come from PHS' approved 2018 budget.

Staffing: No staffing implications.

Legal: No legal implications.

HISTORICAL BACKGROUND

Originated in 1998, Clean Air Hamilton initiates research on air quality issues; provides policy advice to all levels of government; encourages emission reductions among organizations operating in Hamilton, and promotes behavioural changes among individuals living and working in Hamilton.

Every year, Clean Air Hamilton identifies programs that will further the goal of improving air quality through education and awareness on a variety of emission sources, including transportation, and air quality monitoring of air pollutants in the City of Hamilton. Recently, Clean Air Hamilton has changed the way it administers funding to better align with existing City policies, such as the City Enrichment Fund (CEF). Three external adjudicators with expertise in air quality and community engagement were selected to review all applications. The applications were scored based on a pre-approved set of criteria that were developed by staff with input from Clean Air Hamilton members. Applications were assessed on four major criteria:

1. Air Quality Impact (45%)
2. Community/Capacity Impact (25%)
3. Project Management (10%)
4. Organizational Viability (20%)

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In September 2016, with collaboration of partners, Clean Air Hamilton identified five new strategic issues related to air quality improvements that the committee will focus on over the next two to three years:

Preface

Clean Air Hamilton is dedicated to improving air quality across the City of Hamilton. This will be accomplished through sound science based decision making, using the most up-to-date information and tools available, such as the Hamilton Airshed Model.

1. **Governance & Structure:** To remain a multi-stakeholder group dedicated to improving air quality by increasing public perception and expanding Clean Air Hamilton membership while providing communication and promotion of realistic, science based decision making and sustainable practices.
2. **Air Zone Management:** To comply with all Ministry of the Environment and Climate Change and Canadian Ambient Air Quality Standards. This will be done through implementation of a systems level approach and support towards an industrial mandatory monitoring regulation.
3. **Transportation:** To encourage and facilitate more use of public and active transportation through commentary on transportation related matters, supporting educational programs and localized monitoring leading to detailed information to encourage changes in behaviour.
4. **Air Monitoring:** To improve air monitoring activities across the City of Hamilton by providing support for additional portable air monitors and fixed air monitors that provide real-time monitoring for contaminants of concern in Hamilton.
5. **Dust & PM2.5 Mitigation:** To lower concentrations of PM2.5 across the City of Hamilton below Canadian Ambient Air Quality Standards by effectively utilizing the Airshed Model to create partnerships and pollution inventory specific to street sweeper and dust mitigation programs.

POLICY IMPLICATIONS AND LEGISLATED REQUIREMENTS

Not Applicable.

RELEVANT CONSULTATION

The programs identified for funding through Clean Air Hamilton were scored by three experts in air quality and/or community engagement and public health which included staff from the Ministry of the Environment and Climate Change, Health Promotion Specialist from Healthy and Safe Communities, and Professor Emeritus from University of Toronto. Staff created the scoring criteria with input from Clean Air Hamilton members.

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Members of the Clean Air Hamilton include City staff from: Healthy and Safe Communities – Healthy Environments Division; Public Works – Transportation Division Energy and Facilities; Planning & Economic Development – Community Planning & Design Division.

Other members of Clean Air Hamilton include the Ontario Ministry of the Environment and Climate Change, Environment Canada, Health Canada, Green Venture, Environment Hamilton, Hamilton Conservation Authority, Mohawk College, McMaster University, Horizon Utilities, Corr Research, McKibbin Wakefield Inc., Hamilton Industrial Environmental Association, ArcelorMittal Dofasco, U.S. Steel Canada, and citizens.

ANALYSIS AND RATIONALE FOR RECOMMENDATION

Every year, Clean Air Hamilton identifies programs that will further the goal of improving air quality and addressing climate change in Hamilton. Programs and projects are selected for funding based on scoring criteria that assesses relevance of the project or program on:

1. Air Quality Impact (45%)
2. Community/Capacity Impact (25%)
3. Project Management (10%)
4. Organizational Viability (20%)

Clean Air Hamilton has identified the following three programs to be delivered by local partners to address air quality and climate change in the community in 2017:

1. 'Friendly Streets Hamilton (\$12,000) – Cycle Hamilton Coalition Inc.

Cycle Hamilton was incorporated as a not-for-profit organization in 2015. It is a member-supported group of individuals, communities, and organizations that work together to make Hamilton a place where people of all ages and abilities can safely get around by bike to all parts of the city.

Friendly Streets Hamilton was successfully piloted in 2017 conducting street-level audits in the area within a 1 km radius of the Hamilton General Hospital. They are proposing to integrate air quality into the Friendly Streets work where community members will learn about urban air quality challenges and they measure particulate matter (PM_{2.5}) during the street audits. They expect to engage around 200 community stakeholders in this initiative.

2. Fresh Air for Kids (\$10,700) – Green Venture & Corr Research Inc.

The "Fresh Air for Kids" program began in 2013 and has been a huge success educating hundreds of students across Hamilton on the importance of air quality and the Air Quality Health Index. Furthermore, the program develops air quality

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maps using mobile monitoring data to help children choose low risk commuting methods and routes to school.

This year Green Venture, in partnership with Corr Research are planning to execute the Fresh Air for Kids programs at three schools across Hamilton. The program begins with neighbourhood mobile air monitoring survey using Ministry of the Environment and Climate Change (MOECC) mobile monitoring van, GIS analysis of the data that is used to create air quality maps for in-class exercises. They anticipate reaching 100 direct participants from the program and over 350 indirect participants (teachers, parents siblings etc.)

3. **Bus Brains – School Bus Monitoring (\$5,877) – Green Venture**

Green Venture is a very successful non-profit organization that connects people with the tools and knowledge they need to create a healthier, more sustainable community where they live, work and play. The organization's Board of Directors and its staff have been tireless champions for air quality in Hamilton for two decades and implemented prominent air quality work through public education.

This initiative from Green Venture would combine education on air quality and air pollutants along with citizen science opportunities for the students involved. Students will be trained on how to use the portable indoor air quality monitors prior to the monitoring. Each class or EcoTeam would loan the air monitor up to two weeks where students who ride the bus would measure the air quality in the cabin of the bus. Data collected will be analyzed by Dr. Matthew Adams and his students at the University of Toronto.

ALTERNATIVES FOR CONSIDERATION

Board of Health does not approve the funding. This is not recommended as this does not support actions to improve air quality and health in Hamilton.

Financial: If funding is not approved, it will create a financial pressure among community partners that may result in the programs not being implemented.

Staffing: No staffing implications.

Legal: No legal implications.

Policy: If the recommendation is not approved, PHS staff may be directed to use Procurement By-law Policy 11 (non-competitive procurement) to procure outreach services.

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ALIGNMENT TO THE 2016 – 2025 STRATEGIC PLAN

Community Engagement & Participation

Hamilton has an open, transparent and accessible approach to City government that engages with and empowers all citizens to be involved in their community.

Healthy and Safe Communities

Hamilton is a safe and supportive city where people are active, healthy, and have a high quality of life.

Clean and Green

Hamilton is environmentally sustainable with a healthy balance of natural and urban spaces.

APPENDICES AND SCHEDULES ATTACHED

Not Applicable.

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