



### **Meeting Minutes**

Coordination Committee

Mon. July 10, 2017, 3:00 – 5:00 pm

71 Main St W, City Hall, Rm 192/193

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#### **In Attendance:**

Denis Corr, Corr Research (Chair)  
Trevor Imhoff, Public Health, City of Hamilton  
Brian Montgomery, Public Health, City of Hamilton  
Shelley Rogers, Public Health, City of Hamilton  
Lynda Lukasik, Environment Hamilton  
Michael Gemmel, Green Venture  
John Lundrigan, ArcelorMittal Dofasco  
Christine Borselli-Morgan, Citizen  
Elise Desjardins, Friendly Streets Hamilton  
Brian Jantzi, Citizen  
Mark Smithson, Ministry of the Environment and Climate Change  
George McKibbon, McKibbon Wakefield Inc./University of Guelph  
Andrew Sebestyen, Stelco Canada  
Eniber Cabrera, Planning and Economic Development, City of Hamilton  
Umme Akhtar, Health Canada

#### **Regrets:**

Jonathan Bastien, Hamilton Conservation Authority  
Heather Donison, Sustainability, City of Hamilton  
Matt Adams, Associate Professor - Ryerson University  
Anna Krol, Health Canada  
Sally Radisic, Public Health, City of Hamilton  
Peter Chernets, Citizen  
Rachel Johnson, Smart Commute -TDM, City of Hamilton  
Karen Logan, HIEA Representative, Communication Coordinator  
Fran Scott, McMaster Institute for Healthier Environments  
Weeberb Réquia, McMaster University  
James Kaspersetz, OEAC  
Adriano Mena, Citizen  
Ted Mitchell, Citizen

Barry Duffey, Ministry of the Environment and Climate Change  
Joshua Parkinson, Student, Mohawk College  
Dan Dobrin, Ministry of the Environment and Climate Change  
Michelle Cassar, Health Canada  
Patrick Quealey, Environment and Climate Change Canada  
Lorraine Vanderzweert– Mohawk College  
Shivani Vigneswaran, Environment and Climate Change Canada  
Carolyn Barnes, ArcelorMittal Dofasco  
Peter Topalovic, Smart Commute -TDM, City of Hamilton  
Joel Konik, Hamilton Conservation Authority  
Paul Szachlewicz, Horizon Utilities Corporation  
Alexandra Graham, Citizen  
Andrea McDowell, Public Health, City of Hamilton  
Matt Lawson, Public Health, City of Hamilton  
Christine Newbold, Planning, City of Hamilton  
Katie Chan, Stelco Canada  
Kirsten McCauley, Planning and Economic Development, City of Hamilton

*Meeting Commenced at 3:00 pm*

## **1. Introductions & Welcome**

## **2. Approval of June 12, 2017 Minutes**

- Approved

## **Presentations:**

## **3. SmogStop Barrier Presentation - Scott Shayko, President & CEO, Envision<sup>2</sup> (40 minutes + questions**

- Envision<sup>2</sup> has over 40 years of experience in acoustics and air quality assessment with expertise in photochemical monitoring and transportation
- In U.S more than 58,000 people die each year from traffic pollution
- In GTA more than 80% of residents live within 500 metres of a major road
- SmogStop Barrier is an acoustic sounds barrier that also mitigates air pollutants. Can reduce NO<sub>x</sub> by 30%
- Photocatalytic coating treatment through passive technology.
- Titanium Dioxide requires UV radiation to work and create by-products on layer that degrades product
- SmogStop coating by-products only N<sub>2</sub> and O<sub>2</sub> both environmentally harmless and with 12 month of aging coating still kept its efficiency.
- Aerodynamic design important. Straight walls found pollutants just going over wall, SmogStop directs air flow through chamber for contact with coating
- SmogStop can reduce traffic emissions downwind by 58% compared to conventional noise barrier. Single kilometre of SmogStop equivalent to taking 200,000 cars off the road

- Third party independent lab testing of photocatalyst completed at University of Toronto and a full-scale climatic wind tunnel

#### Questions/Discussions

- Lynda L – Asking about Particulate Matter (PM) coming out at the bottom of the wall.
  - Scott S. – Previous studies show no increase in PM compared to ambient levels. Planning on planting vegetation to near bottom of the wall as well.
- Brian J. – Noise barriers or any type of barrier has shown to reduce pollutants, how reductions measured in comparison.
  - Scott S. – Reductions quoted are in comparison to existing walls. Example the 58% reduction is 58% more effective than existing noise walls.
- George M. – MTO has calculations for setbacks, how is Envision<sup>2</sup> calculating.
  - Scott S. – Similar to MTO calculations, conditions dependent on other factors but overall area of influence is 500m
- Andrew S. – Assuming light needs to get in, so wall is not opaque?
  - Scott S. – coating applied to sand blasted surface which is opaque.
- Brian J. – Barrier near roads which will get dusty and dirty, will it need annual cleaning?
  - Scott S. – Covered in hydrophilic coating, rain will push dirt to the sides and fall off
- Umme A. – Asking about seasonal variance.
  - Scott S. – Measurements conservative, replicating December conditions for amount of sunlight
- Lynda L. – Asking about barrier protection during car accidents.
  - Scott S. – Will still have jersey barrier and glass is shatter resistance.

#### **4. Bay Area Climate Change Partnership Announcement – Brian Montgomery (15 minutes)**

- Currently working with Mohawk College and City of Burlington to create the Bay Area Climate Change Partnership. Mohawk's three prong model includes:
  1. Industry Partnership Office;
  2. Campus Carbon Management Office; and
  3. Bay Area Climate Change Model
- Climate Change model similar to BARC/BAIT model that includes a climate change council and coordinating office. Will be physically located in new net zero Joyce Centre currently being built at Mohawk College.
- Industry members may be interested in Mohawk's Industry Partnership Office which could help with Cap & Trade, new technology, supply chain strategies etc.
- Hamilton now joining Sustainable Hamilton Burlington
- Currently working on paperwork for provincial funding. Mohawk just announced new Executive Director position that will oversee all 3 offices.

### Questions/Discussions:

- George M. – BARC was experimental, this sounds very institutional.
  - Brian M. – Institutional approach is what City Manager wanted. The climate change council will be an advisory watchdog and there will be no representation from either City or Mohawk.
  - Denis C. – Need institution if getting millions of dollars from Province.
- Lynda L. – Concerned about community piece being left behind and actions identified in the community climate change action plan. Process and inclusiveness very important. Seems to be heading away from community
- George M. – Recruitment for Council going to be a challenge. Predict in 5 years potential conflict between Council and Executive Director.
- Denis C. – Overall huge hooray for moving forward, people getting into place. Institutions known for self-perpetuating, important to focus on outputs. Also wants to point out previous funding split between Public Health and CES, then that split again for climate change work. Wants to ensure adequate resources for continuing air quality work.
- Brian M. – Asking if anyone knows director level person with community focus to tell them to apply to Executive Director Position at Mohawk.
- John L. – Asking when office thinking about approaching industry?
  - Brian M. – Most likely after Director hired to maybe Fall.

### **5. Hamilton's Urban Heat Island and Normalized Difference Vegetation Index – Trevor Imhoff (10 minutes)**

- Urban Heat Island (UHI) effect increasing due to climate change. Growing concern for population health, especially for vulnerable populations.
- UHI exacerbated through dark impermeable surfaces such as surface parking lots and dark building rooftops. Ontario growth plans directing further intensification into urban areas that will further create grey infrastructure.
- Working with Landsat 8 thermal infrared imagery and NDVI mapping to establish hottest places across Hamilton and vegetation density across Hamilton. [Link to PDF](#)

### Questions/Discussions:

- Denis C. – previous RWDI identified two main heat islands in Hamilton.
  - Trevor I. – thermal imagery does show heat islands in downtown Hamilton and industry
- Lynda L. – Asking if industry can plant trees under Cap & Trade program?
  - Andrew S. – Stelco looking at planting trees. Bankruptcy settlement is over, however footprint much smaller and is now broken up into two parts with Land Co owning one part.

### **6. Proposals for McMaster's Geography and Earth Science Intern Courses – Trevor Imhoff (10 minutes)**

- Recently met with Dr. Bruce Newbold, Director of McMaster's Geography and Earth Science Department to discuss potential collaboration with CAH.

- Dr. Newbold passed along potential courses where I could do presentation to promote CAH in the Fall.
- There are also intern courses that are 100% project based. Organizations can submit a brief 1 or 2 page proposal. Members of CAH wishing to do so can get in touch with me. Example for Air & Trees Task Force thinking of submitting proposal for online tree priority mapping tool.

#### **7. Partner's in Climate Action Funding Update – Trevor Imhoff (10 minutes)**

- Researched this stream of funding and unfortunately do not think CAH would qualify. Instructions state they will not fund education campaigns.
- Speaking with Drive Smart Challenge about partnering with them to further promote their program in Hamilton. Assume members fine with promoting their program on CAH website.
- Scout Environmental submitting an Expression of Interest and waiting to hear back.

#### **8. Board of Health Meeting July 13 – Denis Corr (10 minutes)**

- Similar to previous years, will be presenting to Board of Health July 13 2017 at 1:30PM on 2016 CAH Progress Report.
- In 2015 Hamilton above CAAQS for PM<sub>2.5</sub> which made Hamilton stick out as only municipality above CAAQS. In 2016 Hamilton is now below CAAQS which says a lot about industry folks and other's work to reduce PM<sub>2.5</sub>
- Asking if anyone else has anything they want Denis to bring to BOH while presenting

#### Questions/Discussions:

- Lynda L. – Is PM<sub>2.5</sub> monitored at all three MOECC's AQHI monitoring stations?
  - Denis C. – Yes, something to think about, three stations may not be representative of specific neighbourhoods. More PM<sub>2.5</sub> monitoring needed across the City
  - Andrew S. – HAMN privately funded, if we got additional members and funding would be appreciated but previous funding came from City for additional monitoring through the AirPointers
  - Lynda L. – AirPointers were funded through area rating funding by Councillor Collins. Good to mention to other Councillors during BOH presentation.
- George M. – Asking Denis to mention UWDW conference which will be presenting results of airshed model
- Denis C – Asking MOECC about pollutants under O'Reg 419 monitored through HAMN network
  - Mark S. – HAMN monitors cover extensive amount of pollutants, some not regulated under O'Reg 419 but have Canadian Ambient Air Quality Standards through Canadian Council of Ministers of the Environment (CCME)
- Lynda L. – PM<sub>2.5</sub> not regulated under O'Reg 419 and not sure it will be.
- Brian J. – If want to stay ahead of the curve/government look at ultra-fine particulate (PM<sub>1.0</sub>) and smaller at street level
- Denis C. – presenting after PM By-law report, agree with Public Health that Oakville by-law would not be effective in Hamilton, costs outweigh the benefits.

- Lynda L. – previous work on drag out, no wording in roads by-law around health impacts of road dust.
- Denis C. – Ask Public Health to check with legal for feasibility for both types of by-law:

MOTION 1 – That Public Health Services contact Legal Services to review practicality of creating city by-law directing all high emitters in Hamilton, which covers all industries that report to the National Pollutant Release Inventory (NPRI), to become members of and report to the Hamilton Air Monitoring Network

Motion passed unanimously

MOTION 2 – That Public Health Services contact Legal Services to review feasibility of strengthening roads by-law around the health implications of drag out and dust on roads.

Motion passed unanimously

## **9. Member Updates**

### Denis Corr – Corr Research Inc.

- Assistant Deputy Minister, MOECC came to Rotek with local Director and Dan Dobrin. ADM was very impressed with work in Hamilton.

### Mark Smithson – MOECC

- MOECC working on finalizing manual for air monitoring

### Lynda Lukasik – Environment Hamilton

- EH programs this summer include Bicycle Air Monitoring (BAM), Trees Please, and Building PM monitors
- Sean A. – PM monitor building workshop good community driven projects, have received the parts, making good progress. 6 community members already signed up.

### Eniber Cabrera - Planning and Economic Development, City of Hamilton

- Continue to work on Bayfront Strategy, consultant receiving feedback from community
- Terms of Reference drafted for Community Energy Plan as directed by Council and climate action plan.

### Brian Montgomery – Public Health Services, City of Hamilton

- Introducing newest member of Air Quality & Climate Change team Shelley Rogers

### Elise Desjardin – Friendly Streets Hamilton

- Official launch on Wednesday July 12 at the Hamilton General Hospital near intersection of Barton and Victoria.
- Cycle Hamilton advocating for green road colouring where cycle routes dangerous. Cannon cycle track launching in next few weeks

### Andrew Sebestyen – Stelco Canada

- Out of bankruptcy protection, new owner wanting to invest in Hamilton

Green Venture

- Received funding for Totally Transit for older adults, going to have 7 workshops, if anyone knows groups that would be interested please let GV know
- Enhanced Fresh Air for Kids have all 4 schools booked, may have room for 2 more

Trevor Imhoff – Public Health Services, City of Hamilton

- Upwind Downwind 2018 Conference venue booked at Sheraton Hotel for Monday March 5, 2018. Still confirming the location for the Sunday Air Quality Fair.
- August CAH meeting cancelled. See everyone in September

**Action Items:**

- **Public Health Services to report back to CAH on 2 motions passed during meeting**

*Meeting Adjourned at 4:45 pm*

**Next meetings:**

**September 11, 2017**

**3:00-5:00pm**

**City Hall Room 192/193**