



Town of Newmarket
AGENDA

**Newmarket Environmental
Advisory Committee**

Wednesday, September 6, 2017 at 6:30 PM

Mulock Room, 395 Mulock Drive

Additions and Corrections to the Agenda

Declarations of Pecuniary Interest

Presentations

The Deputy Clerk, K. Saini, will be in attendance to provide a brief refresher and orientation for new Members.

The Director of Public Works Services will be in attendance to address the Members regarding upcoming budget requests and support.

Approval of Minutes

3. Newmarket Environmental Advisory Committee Meeting Minutes of May 3, 2017.

Correspondence

4. Items of correspondence previously distributed by e-mail.
5. Correspondence dated July 27, 2017 from Ms. Christine Tidman regarding Native Plants.

Items

6. Introduction of New Members and Interests.
7. Review and Endorsement of Operations Budget Items.

8. Presentation to Council for NEAC work plans, challenges and recommendations for a better way forward (draft to be presented by e-mail prior to meeting including priority items within budget)
9. Discussion regarding three sort recycling bins in parks and public areas/disposal methods and next steps.
10. Possible Public Events for balance of 2017.
11. Rotating Chairs for balance of 2017.

New Business

Adjournment



Town of Newmarket
MINUTES

**NEWMARKET ENVIRONMENTAL
ADVISORY COMMITTEE**

Wednesday, May 3, 2017 at 6:30 PM
Mulock Room

The meeting of the Newmarket Environmental Advisory Committee was held on Wednesday, May 3, 2017 in the Mulock Room, 395 Mulock Drive, Newmarket.

Members Present: John Birchall
David Kempton
Petra Vollmerhausen
Councillor Vegh

Absent: Jill King
Cathie Ethier

Staff Present: P. Noehammer, Commissioner, Development and Infrastructure
Services
H. Leznoff, Council Committee Coordinator

The meeting was called to order at 6:45 p.m.

Petra Vollmerhausen in the Chair.

Additions & Corrections to the Agenda

None.

Declarations of Pecuniary Interest

None.

Approval of Minutes

1. Newmarket Environmental Advisory Committee Meeting Minutes of November 2, 2016.

Moved by: J. Birchall
Seconded by: D. Kempton

That the Newmarket Environmental Advisory Committee Meeting Minutes of November 2, 2016 be received.

2. Newmarket Environmental Advisory Committee Meeting Minutes of March 1, 2017.

Moved by: J. Birchall
Seconded by: D. Kempton

That the Newmarket Environmental Advisory Committee Meeting Minutes of March 1, 2017 be received.

Carried

Correspondence

3. Correspondence items, previously distributed by e-mail.

Moved by: D. Kempton
Seconded by: J. Birchall

That the correspondence items, previously distributed by e-mail, be received.

Carried

Items

4. Public Engagement and Environmental Events.

- a) Garage Sale Discussion

P. Vollmerhausen advised that she was experiencing difficulty securing a location and volunteers for the garage sale. The Commissioner of Development and Infrastructure Services agreed to provide information about a potential site for the garage sale as an alternate venue. Other options such as cancelling the garage sale or rescheduling it to the fall were discussed and Petra advised that a decision would be made once the information about the alternate venue was received.

- b) Newmarket Farmer's Market Attendance

This item was deferred to a future meeting or through informal discussion.

5. Q & A with the Commissioner of Development and Infrastructure Services

Committee Members and the Commissioner of Development and Infrastructure Services discussed the function of the Environmental Advisory Committee and if it is appropriate to fill the current vacancies at this time.

The Commissioner of Development and Infrastructure Services discussed the role of the Committee as an Advisory Committee and indicated how the terms of reference and work plan of the Committee align with Council's strategic priorities. He advised that there is an advocacy component of the committee through education and outreach but that these areas should still align with the work plan rather than individual committee member's areas of interest. He identified two main areas of discussion. Firstly, are the Terms of Reference still meaningful for the Town and Committee? Secondly, if there is a stronger interest for committee members to advocate for particular environmental issues, then perhaps the committee meeting structure is not the best forum for those initiatives.

Committee members discussed their work plan and expressed frustrations with the narrow scope of work assigned in the Terms of Reference, the few occasions where they were asked for input, and their lack of accomplishments achieved.

A decision was made that the Committee would work with the Terms of Reference and current work plan to find areas to pursue, specifically community involvement and education/outreach. It was suggested that environmental policy advice, rather than project advice, could be an area to consider. Revisions to the work plan would be brought to Council for approval.

There was concurrence that the vacant positions should not be filled at this time due to the on-going consideration being given by the existing members of the Committee to the work plan.

New Business

None.

Adjournment

Moved by: J. Birchall
Seconded by: Councillor Vegh

That the meeting adjourn at 8:17 PM.

Carried

Date

Petra Vollmerhausen, Chair

July 27, 2017

Attention: Newmarket Environmental Advisory Committee (NEAC)

As we pride ourselves on being one of Canada's most progressive environmental municipalities, I would like to suggest that the Town of Newmarket implement a "native only" species planting initiative. As members of NEAC, I assume you are aware of the numerous beneficial aspects of planting native species in our community. If you need a refresher on the numerous benefits, I have reproduced a fantastic list that appears on the Audubon website (<http://www.audubon.org/content/why-native-plants-matter>). Research by the renowned entomologist Doug Tallamy has shown that native oak trees support over 500 species of caterpillars whereas ginkgos, a commonly planted landscape tree from Asia, host only 5 species of caterpillars. When it takes over 6,000 caterpillars to raise one brood of chickadees, that is a significant difference. There are a wealth of native tree varieties that can tolerate the many diverse growing conditions throughout the town. The City of Guelph has an excellent, comprehensive native plant list organized by sun requirements, which you can view here: <http://guelph.ca/wp-content/uploads/droughtTolerant-NativePlants.pdf>

While the Tree Preservation, Protection, Replacement and Enhancement Policy (Apr 2008) notes native species throughout the document, there is no directive to plant native where possible. I was disappointed to see that many of the extensive plantings done at the completion of the Davis Drive project were not native species. Seeing non-natives planted throughout our town is what prompted me to come to you with this suggestion.

Aside from the extensive documentation regarding the benefits of planting native trees, native shrubs and perennials are also very important to the health of our biosphere and I urge NEAC to recommend using native species of these, too, where possible. Of course, the Monarch butterfly scare has promoted the awareness of planting of milkweeds, but other butterfly and moth species are also dependant on other native shrubs and perennials. Bees also need native pollinators. Their foraging and nesting spaces have declined due to pesticide use, habitat loss and urban development. By nurturing the insects that thrive on native species, we can have a tremendous impact on the health of the entire food web.

Newmarket should continue to implement progressive environmental initiatives for the health and welfare of its citizens and promoting a native only policy for the municipality demonstrates Newmarket's continued commitment to the environment. This policy could also extent to new residential plantings (if developers are required to plant trees/shrubs when they build) and new commercial development and/or buffer zone plantings. Initiating a native planting policy in town would also be an incredible venue to educate homeowners about the virtues of planting Ontario natives. There are many organizations that would endorse this initiative – The North American Native Plant Society, Newmarket Horticultural Society, Ministry of Natural Resources, Lake Simcoe Regional Conservation Society and York Simcoe Naturalists to name just a few.

Benefits of Native Plants:

Low maintenance:

Once established, native plants generally require little maintenance.

Beauty:

Many native plants have ornamental qualities equal to popular non-native species. Many native plants offer beautiful showy flowers, produce abundant colorful fruits and seeds, and brilliant seasonal changes in colors from the pale, thin greens of early spring, to the vibrant yellows and reds of autumn.

Healthy Places for People:

Lawns and the ubiquitous bark-mulched landscapes are notorious for requiring profuse amounts of artificial fertilizers and synthetic chemical pesticides and herbicides. The traditional suburban lawn, on average, has 10x more chemical pesticides per acre than farmland. By choosing native plants for your landscaping, you are not only helping wildlife, but you are creating a healthier place for yourself, your family, and your community.

Helping the Climate:

Landscaping with native plants can combat climate change. In addition to the reduced noise and carbon pollution from lawn mower exhaust, many native plants, especially long-living trees like oaks and maples, are effective at storing the greenhouse gas carbon dioxide. They are also perfectly adapted to our weather zone and will survive better than non-natives.

Conserving Water:

Because native plants are adapted to local environmental conditions, they require far less water, saving time, money, and perhaps our most valuable natural resource, water.

Wildlife:

In addition to providing vital habitat for birds, many other species of wildlife benefits as well. The colorful array of butterflies and moths, including the iconic monarch, the swallowtails, tortoiseshells, and beautiful blues, are all dependent on very specific native plant species. Native plants provide nectar for pollinators including hummingbirds, native bees, butterflies, moths, and bats. They provide protective shelter for many mammals. The native nuts, seeds, and fruits produced by these plants offer essential foods for all forms of wildlife.

I hope you will consider my suggestion. Please feel free to contact me if you have any questions or comments.

Thank you.

Christine Kalan Tidman

Could you please distribute to NEAC members the information about the municipal energy conservation projects for budget consideration.

I would like to propose that NEAC support those projects and include them in NEAC Plan.

Kind regards,

Catherine Ethier

From: Catherine E. _____
Sent: August-10-17 12:33 AM
To: Kalimootoo, Chris
Cc: 'JOHN BIRCHALL'; Noehammer, Peter; Vanwensem, Harry; Bond, Scott
Subject: RE: Next NEAC Meeting

Thank you Chris,

When you get a chance would you be able to provide some additional project information available at this time. I have put together an outline of proposed energy conservation projects based on your notes. Please feel free to correct and/or include more information where available by August 18th. Then we can distribute the information to NEAC members to discuss the support of your budget proposal.

Catherine Ethier

Energy Conservation Projects:

1. Install REALice Systems

Project overview:

Ice rinks consume vast amounts of energy and contribute to global warming. The REALice® System will reduce emissions of carbon dioxide (CO2). with up to 52 tonnes per rink per year and therefore quickly reducing your arenas carbon footprint.

Benefits :

- Reduced energy and gas consumption
- Improved ice quality and customer satisfaction
- Reduce maintenance cost
- REALice system is maintenance free
- Typical Savings:
 - o Natural Gas Savings: 400 – 600 GJ
 - o Electricity savings: + 50,000 kWh
 - o Cost Savings: \$1,000 – \$1,200/month
 - o CO2 emission savings: +50t / y
- Estimated energy savings 100,000kWh
- Budgeted amount: \$42,500
- Available incentive amount: potential \$10,000

More information about REALice® System:

<https://www.youtube.com/watch?v=ELVZE5Zwfl>

In 10 years one pad ice rink will save 980 tonnes of Carbon Dioxide (CO2)

This is equivalent to:

- o GHG emissions of 4,000,000 km/ year driven by an average passenger vehicle
- o 1,052,632 pounds of coal burned
- o Carbon sequestered by 25,128 tree seedlings grown in 10 years

2. Install separate Roof Top Unit (RTU)

Project overview:

Install separate air conditioning unit on the upper floor of Magna building. By having two separate air conditioning units energy consumption will be reduced as the RTU on the upper floor will operate only part of the time. Additional benefits will result based on the heat exposure from the sun which would vary between the different floor levels (e. g, depending on building/ windows construction)

Benefits :

- Reduced energy consumption from unit operating part of the time in conjunction with the existing RTU
- Maintain air quality and comfort levels
- Estimated energy savings TBD
- Budgeted amount: \$75,000
- Available incentive amount: TBD

3. Develop Five Year CDM Plan for municipal buildings to meet regulatory requirements

Project overview:

Develop Five Year CDM Plan for municipal buildings to meet the requirements of Ontario Regulation 397/11. As per regulatory requirement the plan must be made publicly available via the municipal web site as of July 2014 and updated by 2019. Most of the municipalities in Ontario have currently complied.

Benefits :

- Comply with regulatory requirements of Ontario Regulation 397/11
- Develop/ update 5 years plan to include objectives , targets and identify projects
- Capture current baseline (current state) via energy audits
- Develop a road map to estimated energy savings in the amount of 15% to 25% in 5 years period
- Budgeted amount:
 - o Plan Development \$40,000
 - o Energy audits: Included above
 - o Reporting : Included above
- Available incentive amount: TBD (incentives may be available for energy audits and from CFM)

From: Kalimootoo, Chris [mailto:ckalimootoo@newmarket.ca]
Sent: August-09-17 1:13 PM
To: Catherine E.
Cc: 'JOHN BIRCHALL'; Noehammer, Peter; Vanwensem, Harry; Bond, Scott
Subject: RE: Next NEAC Meeting

Catherine,

Out of the CDM Plan, there were only three projects identified that the Town should be considering they are below:

Measures for Future Consideration (Town of Newmarket)

Install Glycol Pump VFD Drives

The existing glycol pumps at the Magna Centre are constant flow pumps equipped with 30 horsepower motors. Honeywell has investigated the installation of variable frequency drives on these pumps. However, CIMCO was not receptive to this idea; as such, this measure may be considered for future implementation.

Install Reverse Osmosis Softwater Systems

The installation of reverse osmosis softwater systems were considered for the Magna Centre and Ray Twinney Centre. However, this measure did not meet the financial criteria of this project.

Install SCR Modification to Existing Electric Coil (RTU-8)

Modulating control was considered for implementation on the existing electric heating coil on RTU-8. The existing electric heating coil is equipped with four banks of heaters. However this measure did not meet the financial payback criteria of the project.

We are double checking on the first suggested project, but we didn't think it was worth the capital funds required as the pay back would be too long, and it didn't work with the equipment currently in place, which would require a complete overhaul, however the last two we have decided to change a little.

Instead of an RO system, we have asked for a Capital project for a REALice system. This will essentially do the same thing.

Instead of a modulating control for the RTU-8 unit, we will be putting in a separate unit that only does the upstairs room and therefore not having to work all the time.

So that is the update.

As discussed, I would really appreciate the support of NEAC as we request funds from Council for budget approval on these two projects for 2018 and for the update of the CDM Plan, which we are also putting forward.

Thanks again.

Chris.