

**MUNICIPAL ENGINEERS ASSOCIATION
DEVELOPMENT ENGINEERING COMMITTEE
(MEA-DEC)
MEETING AGENDA**

Date: Thursday April 28, 2021

Time: 9:00 a.m.

Location: Video Conference via Zoom

Item No.	Discussion Topics	
1	Opening Remarks: a) Welcome b) Meeting structure c) Break at 10:30am, by 12pm all agenda topics should be reviewed. Other/new business can be brought up at the end of the meeting (time permitting). d) Introductions e) Overview of last meeting minutes	Mike Pincivero Town of Wasaga Beach
2	How do municipalities deal with too much flow in sanitary sewer systems? Flow monitors (where to place them)? Grimsby – Provided overview of the question. Some areas of the Town have high I&I. Looking into flow monitoring for new developments. When do you install a flow monitor into the system (timing)? Pushback from developers? Hold developer's to design parameters? Collingwood – Similar concerns to Grimsby, high I&I in some areas of the Town. Causes are a combination of high groundwater, workmanship etc... When should flow monitoring be installed and should the developer be held to proposed design? Should this be outlined in the Subdivision Agreement? County of Brant – York Region has an I&I program, which have been attached to these Minutes. Allocation and capacity issues. While monitoring the trunk sanitary sewers, capacity was found in a section of the sanitary sewer system that the County thought was full. - I&I business will increase over time. York Region – Sammi Pitorski(?) Contact for I&I info. County of Brant – Standard change recommendations were implemented based on the I&I review. T of WB – Standards Council of Canada has an I&I document that can be a useful tool. Document will be attached to these meeting minutes. County of Brant – Hired a consultant to monitor the key junction points of the sanitary network. As a result of the review, the County was able to allow some development to proceed that were alternatively going to be delayed. Had to construct approximately 2km sanitary sewer to allow for an east-west sewer connection. Woolrich – Randy Miller (Town of Woolwich rmiller@woolwich.ca) has been heading a capacity and I&I monitoring program. Developer is paying for the monitoring for the project where I&I is happening. Town also hired consultant	Marvin Ingebrigtsen Grimsby

	and contractor to install monitors within the Town sewer network. Where to place the monitors? Start at the low end and move upward, following the excess flows. Town finalizing a terms of reference for monitoring I&I. T of WB – When does monitoring occur? Is there a “before and after” comparison? (i.e. before and after homes are built) Woolwich – Flow monitoring derived from the Town noticing an issue. (Not done prior to home construction.) T of Grimsby – What is the threshold/ target? Pre VS post home construction and compare to design sewer sheet? Collingwood – Interested to see example wording for Subdivision Agreements. Municipality initiates the flow monitoring, Agreement has clauses with parameters/ threshold to commence monitoring? Curious on legal wording in the Agreement/ what the Agreement clause looks like. T of WB – Inquired about smoke tests to identify sump pumps connected to sanitary services. How does it work? Collingwood – Has completed smoke tests. Smoke injected into the sewers will spread into homes’ basements where illegal connections do not have a “p-trap” to prevent smoke from entering the internal plumbing. C of Toronto – Has completed smoke tests, resident notices issued and details provided in advance of the testing so that residents don’t call the fire department.	
3	Do municipalities ask for long or medium-term sanitary flow monitoring from developers after installation of sanitary sewers? Perhaps prior to assumption by the municipality. This item has been lumped together with item #2 above.	Stuart West Town of Collingwood
4	Example RFPs for Secondary Plan Study – 650 to 700 acres, PSWs, etc. City of Thunder Bay – Not present, item was not discussed.	Aaron Ward City of Thunder Bay
5	Development Engineering Review resources City of Peterborough – Not present, item was not discussed.	Zachery Staples City of Peterborough
6	Cut / Fill By-laws: • Who polices them? • What has worked / not worked with your by-law? T of WB – Does not have a cut/fill by-law, response is always that the Town does not have a by-law and that grading/drainage matters is a civil suit between private land owners; unless there is a building permit associated with the grading works taking place, then there is a lot grading plan which must be complied with. County of Brant – Complaints from new developments and work associated with infill permits has resulted in the County having 3 staff dedicated to reviewing these issues. By-law enforcement officers are brought in whenever there is an issue. There is also a modified penalty system. They recommend speaking with the manager Jeff Walters. Any fill beyond 4-6 inches requires a site alteration permit or fill application which may require a grading plan.	Mike Pincivero Town of Wasaga Beach

	Woolwich – Enforcement: since this is a by-law, it is enforced by the By-law Department; however, by-law staff may not have experience with fill, contaminated fill, excess fill and grading. Woolwich has a staff member who is designated as an official who is designated to enforce the fill by-law. Recommend issuing an order on the 1st offence rather than a warning. As a smaller municipality, they are usually dealing with the same individuals regarding soil importation and being consistent with your approach to enforcement is key. Creating a site alteration by-law is a very good tool, King Township recently passed a new by-law. Woolwich – Provided a link to the excess soil by-law tool 2.0 - https://www.excesssoils.com/ Collingwood – Changes within 600mm of their property line grades are not permitted. No grading along lot lines permitted. Exemptions exist such as: building permits, approved site plans, approved developments. T of Grimsby – Engineering staff designated to reviewing site alteration, grading and then get by-law involved if there is a noted issue. Welland – designated lead staff for all grading related issues, including for pool installs, etc. This individual is also the designated Drainage Superintendent for the municipality.	
7	Discuss findings of long-term costs to maintain / replace underground storage facilities in lieu of surface ponds T of Grimsby – How is the maintenance of these facilities paid for? Vaughn – 11 sites where underground storage tanks have been proposed within / under parks or right-of-ways. 24m3 of storage. City has hired consultant for peer review of the proposed design. Major issue, is cost contribution and maintenance/ replacement costs. Markham – Requirement is a typical storm pond, however, due to the lack of available land, most developers are proposing underground storage. Current discussions are proposing the developer to provide a one time capital contribution cost plus associates maintenance costs. They have a “Ultimate Infrastructure Policy” adopted by Council, but it is being challenged by developers in terms of amount of contribution is required. Need more data to support. Vaughan – Lifespan of underground storage and costs are the major issues. Study will soon be underway (Vaughan and Markham working together to gather data), and within 18 to 24 months there will be a report on how the policy will be managed / enforced. It was noted on one particular project that the difference in cost between a SWM pond and underground storage is roughly \$30,000.00 annually. Issues being reviewed are related to park replacement costs, by-pass of storm sewer, traffic control/ traffic impacts. This item will be a future MEA meeting topic, following Vaughan and Markham completing their study.	Marvin Ingebrigtsen Grimsby

8	Round Table / Open Mic 1. T of Grimsby – How will municipalities handle the excess soil regulation delay? T of WB – Have implemented the tracking system (to confirm acceptance of surplus material at the receiving end) also added verbiage in the Engineering Standards advising that developers will be required to follow O.Reg. 406/19. County of Brant – Impact will be on where material is disposed from SWM ponds. To date, site alterations permits note that the developer's and contractors needs to comply with O.Reg. 406/19. Based on a presentation from Environmental consultants, municipality may become on the hook for compliance with regulation (over and above the developer and contractor), especially for lands being dedicated to the Town. Vaughn – Agree, costs for SWM cleanouts will increase. Markham – Asks that soils consultant provide a certification letter confirming that all materials imported or exported to and from the site and that the QP has abided by all rules of O.Reg. 406/19. 2. County of Brant - Jellyfish (OGS) filter – Work great, but do not install them prior to a storm pond forebay. They will plug up within a matter of months. Very effective at the tail end of the treatment train (i.e. after the SWM pond), not effective at the beginning. They had to relocate one that was installed ahead of a SWM pond to be after the SWM pond / before the receiving watercourse. Jellyfish filters are being monitored at the cost of the developer. 3. Survey – Is the next meeting preferred in-person or virtual? A poll will be sent out to the group via email.	All attendees
9	Next Meeting – September 2022 (TBD) Please send topics to Mike Pincivero for the next meeting. Even if you cannot attend / present the topic, MP could table the topic with the group for discussion.	

Attendees:

Erik Loorand – City of Richmand Hill
Mike Pincivero – Town of Wasaga Beach
Jason Peters – Town of Wasaga Beach
Patti Kennedy – Town of Wasaga Beach
Julie Tot – County of Brant
Kevin Dolishny – Region of Waterloo
Alex Voinescu - County of Brant
Alex Donn – County of Brant
Stewart West – Town of Collingwood
Doug Loyns – County of Brant
Neil Miles – County of Brant
Lori Fox – Township of Woolwich
Robert Fazio – City of Toronto
Marvin Ingebrigsten – Town of Grimsby
John Kisneris – Halton Region

Arif Khan, Region of York
Frank Lombardi – York Region
Mansoor Ali – City of Markham
Ivan Gonzalez – York Region
Andrea Dale – Town of Whitby
Chris Lato – City of Oshawa
Neil Miles – County of Brant
Peyman Samimian – Bradford West Gwillimbury
Mansoor Ali – City of Markham
Matthew D'Hondt – County of Brant
Saad Yousaf - City of Vaughn

(apologies if anyone is missed)