APPENDIX A: PUBLIC CONSULTATION

Hamilton Conservation Authority

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Flood Remediation Project - Watercourse 11, Fifty Point Conservation Area

Notice of Intent and Public Information Centre No.1

THE STUDY

The Hamilton Conservation Authority (HCA) has commenced a study to investigate possible flood remediation measures for Watercourse 11 in Fifty Point Conservation Area including the private lands and City of Hamilton lands located to the north. The privately held lands contain residential dwellings that may be impacted by this flooding. The focus of this study is to investigate the causes of the flooding and provide an evaluation of alternative solutions to the flooding issue, as well as finalize the preliminary design for the preferred alternative for flood remediation, if applicable. The study area is shown on the attached map.

THE PROCESS

The study is being conducted in accordance with Conservation Ontario's procedures as outlined in the Class Environmental Assessment(EA) for Remedial Flood and Erosion Control Projects (2002, amended June 2013). The Class EA process includes public and agency consultation, characterization of the study area, evaluation of preliminary alternatives and determination of the potential environmental, social and economic effects of the proposed preferred alternative, if applicable, including identification of measures to mitigate any potential adverse impacts.

PUBLIC CONSULTATION

Please join us at our first Public Information Centre to learn more about the study, existing conditions in the study area, possible alternatives to be considered, and the next steps in the study process. The Public Information Centre will be a drop-in open house that will provide an opportunity for you to view display boards, discuss the project with the HCA staff, consultant staff, and provide input into the planning process. Details are as follows:

DATE: February 20, 2018
TIME: 6:00 p.m. to 8:00 p.m.
LOCATION: Fifty Point Conservation Area - Marina Office (Located Under the Landing Restaurant), 1479 Baseline Road, Stoney Creek, Ontario

Comments and information regarding the study will be collected to assist the HCA in meeting the requirements of the Class EA process. If you wish to be involved in this study, provide comments, ask questions, or receive information, please contact one of the project representatives identified below. Additional information on the project, as well as additional consultation opportunities will be made available as the study progresses.

Hamilton Conservation Authority

Mr. Scott Peck, MCIP, RPP
Deputy Chief Administrative Officer/
Director,Watershed Planning & Engineering
838 Mineral Springs Road
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AHYDTECH Geomorphic Ltd.

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Hamilton Conservation Authority
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AHYDTECH Geomorphic Ltd.

Public Information Centre No.1
Flood Remediation Project - Watercourse 11, Fifty Point Conservation Area

Date: 20th February, 2018 Location : Fifty Point Conservation Area – Marina Office, 1479 Baseline Road, Stoney Creek, Ontario

Time: 6.00 PM to 8.00 PM

Hamilton Conservation Authority
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Study Area

The issue to be addressed by this Class EA is flooding that has been occurring in 50 Point Conservation Area, located north of the QEW and east of Fifty Rd in Stoney Creek, Ontario

Fig: Watercourse 11 Study Area

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The Drainage Area of Historical Subwatershed is 7.7 hectares

Old Watercourse 11 Subwatershed

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The drainage Area of the Existing WC11 Subwatershed, is 18 hectares.

Existing WC11 Subwatershed

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WC11 Subwatershed Regulated area

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Landuse of WC11 Subwatershed

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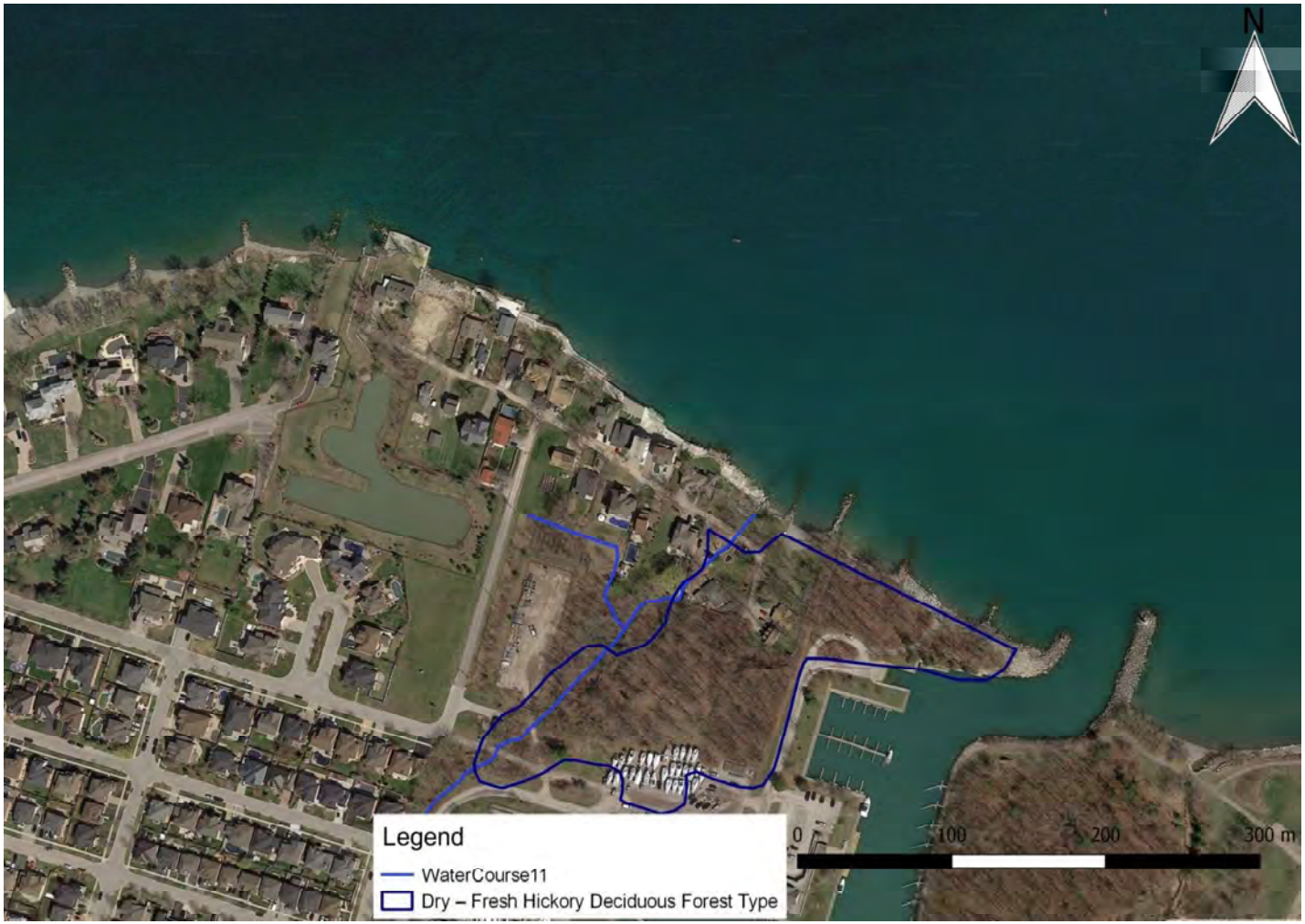

WC11 with Dry Fresh Hickory Oak Deciduous Forest Type

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WC 11 with natural Shoreline

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Shoreline with Seawall

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Data Collection

Topographic Survey

- A topographic survey has been conducted by our Professional Engineer (P.Eng.) using standard engineering Total Station and RTK/GPS survey techniques.

- AHYDTECH has collected cross-section data of Watercourse 11 in the study area. The cross-section data have 50-100m interval, which will be applied for hydraulic and flood hazard analysis

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Data Collection

Bathymetry Survey

- A bathymetry survey has been conducted by our Professional Engineer (P.Eng.) using standard engineering Total Station, RTK/GPS and Sonar survey techniques.

- A bathymetric survey has been conducted to acquire data of four cross shore profiles of the lake and near the shoreline.

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Data Collection

Shoreline Characterization

- AHYDTECH has performed site visit and field investigation to characterize the shoreline in the project area.

- The shoreline can be categorized as natural, artificial with retaining wall or revetment structure

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Coastal and Wave uprush Analysis

- AHYDTECH will follow the MNR Technical Guidelines (2001) and available coastal engineering practices for the wave uprush analysis.
- Several wave uprush computation methods, which are applicable for the site will be analyzed.

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Hydraulic, Coastal & Environmental Analysis

- AHYDTECH will apply the HEC-RAS model for the alternative solutions for the flood remediation in the study area.

- Hydraulic modeling, environmental and coastal engineering analysis will also be applied for selection of the preferred alternative solution for potential remedial measures to reduce or eliminate flooding on conservation area lands but more specifically, on the privately held lands located along Windemere Road.

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Flood Remediation Project - Watercourse 11, Fifty Point Conservation Area

Notice of Public Information Centre No. 2

THE STUDY

The Hamilton Conservation Authority (HCA) has commenced a study to investigate possible flood remediation measures for Watercourse 11 in Fifty Point Conservation Area including the private lands and City of Hamilton lands located to the north. The privately held lands contain residential dwellings that may be impacted by this flooding. The focus of this study is to investigate the causes of the flooding and provide an evaluation of alternative solutions to the flooding issue, as well as finalize the preliminary design for the preferred alternative for flood remediation, if applicable. The study area is shown on the attached map.

THE PROCESS

The study is being conducted in accordance with Conservation Ontario's procedures as outlined in the Class Environmental Assessment(EA) for Remedial Flood and Erosion Control Projects (2002, amended June 2013). The Project Team, at the PIC # 2, will present the study progress to date and the preliminary recommended alternatives. Attendees will have the opportunity to meet with the Team and review the alternatives and their evaluation to address flooding in the study area.

PUBLIC CONSULTATION

Please join us at our second Public Information Centre (PIC #2) to learn more about the study, existing conditions in the study area, preliminary recommended alternatives, and the next steps in the study process. The Public Information Centre will be a drop-in open house that will provide an opportunity for you to view display boards, discuss the project with the HCA staff, consultant staff, and provide input into the planning process. Details are as follows:

DATE: June 13, 2018
TIME: 6:00 p.m. to 8:00 p.m.
LOCATION: Fifty Point Conservation Area - Marina Office (Located Under the Landing Restaurant), 1479 Baseline Road, Stoney Creek, Ontario

Comments and information regarding the study will be collected to assist the HCA in meeting the requirements of the Class EA process. If you wish to be involved in this study, provide comments, ask questions, or receive information, please contact one of the project representatives identified below. Additional information on the project, as well as additional consultation opportunities will be made available as the study progresses.

Hamilton Conservation Authority

Mr. Scott Peck, MCIP, RPP
Deputy Chief Administrative Officer/
Director, Watershed Planning & Engineering
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Email: tspeck@conservationhamilton.ca

AHYDTECH Geomorphic Ltd.

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Public Information Centre No.2
Flood Remediation Project - Watercourse 11, Fifty Point Conservation Area

Date: 13th June, 2018 Location : Fifty Point Conservation Area – Marina Office, 1479 Baseline Road, Stoney Creek, Ontario

Time: 6.00 PM to 8.00 PM

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Study Area

The issue to be addressed by this Class EA is flooding that has been occurring in 50 Point Conservation Area, located north of the QEW and east of Fifty Rd in Stoney Creek, Ontario

Fig: Watercourse 11 Study Area

Natural Shore: Wave Uprush Results

10 YEAR WAVE UPRUSH

METHOD	PROFILE # 1	PROFILE # 2	PROFILE # 3	PROFILE # 4
Hunt (1959)	0.65	0.39	0.76	0.73
Battjes (1974) & Lorang (2000)	0.34	0.31	0.39	0.38
Maximum Wave Uprush (m)	0.65	0.39	0.76	0.73
Maximum Wave Uprush Elevation (m)	76.65	76.39	76.76	76.73

20 YEAR WAVE UPRUSH

METHOD	PROFILE # 1	PROFILE # 2	PROFILE # 3	PROFILE # 4
Hunt (1959)	0.84	0.79	0.99	0.95
Battjes (1974) & Lorang (2000)	0.44	0.41	0.51	0.50
Maximum Wave Uprush (m)	0.84	0.79	0.99	0.95
Maximum Wave Uprush Elevation (m)	76.84	76.79	76.99	76.95

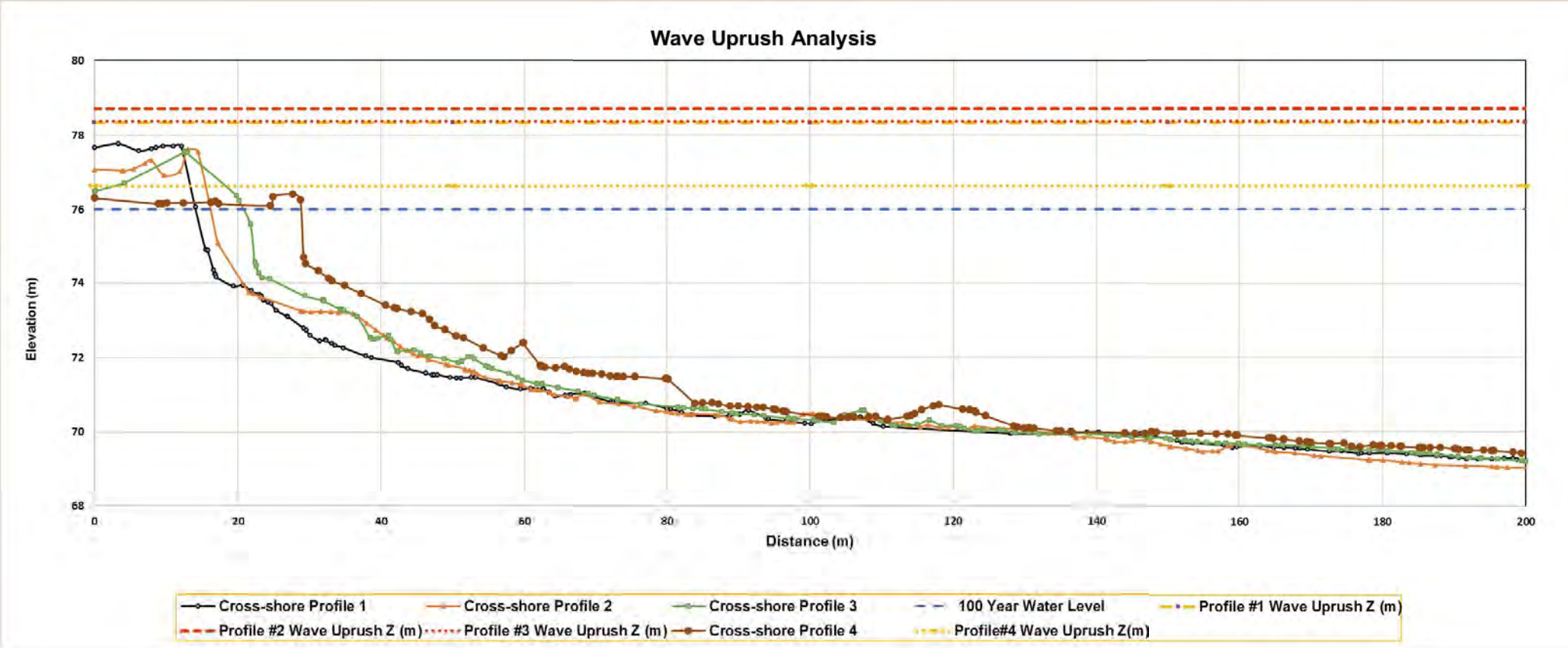
Vertical Wall: Wave Uprush Results

	Wave Uprush R (m)		
METHOD	**10 Year**	**20 Year**	**MEAN**
ACES (USACE 1990) & Goda (1985)	1.05	3.19	2.12
Upper Limit Method (MNR, 2001)	2.34	2.72	2.53
AVERAGE WAVE UPRUSH (m)	1.69	2.96	2.33

Revetment Slope: Wave Uprush Results

	PROFILE # 2 WAVE UPRUSH (m)			PROFILE #3 WAVE UPRUSH (m)		
METHOD	**10 Year**	**20 Year**	**MEAN**	**10 Year**	**20 Year**	**MEAN**
ACES (USACE 1990) & Goda (1985)	**2.44**	**2.95**	**2.70**	**2.51**	**3.04**	**2.77**
Ahrens and Heimbaugh (1988a) & Goda (1985)	**2.61**	**2.88**	**2.74**	**1.85**	**2.05**	**1.95**
AVERAGE WAVE UPRUSH (m)	**2.53**	**2.91**	**2.72**	**2.18**	**2.55**	**2.36**

Lake Ontario Wave Uprush Results



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Hydrologic Model Simulated Subbasin Flows

Storm Event	Results	SB1	SB2	SB3	SB4	SB5	SB7	SB9
100 year Chicago Storm	Peak Flow (cms)	**0.159**	**0.268**	**0.102**	**0.125**	**0.036**	**0.098**	**0.156**
	Area (ha)	3.15	4.01	3.44	1.2	0.74	2.17	0.57
	Runoff Volume (mm)	18.69	31.71	13.36	30.11	15.15	14.26	59.3
	Runoff Volume (m^3)	588.74	1271.57	459.58	361.32	112.11	309.44	338.01
Regional 48 hour Hurricane Hazel Storm	Peak Flow (cms)	**0.099**	**0.197**	**0.074**	**0.062**	**0.019**	**0.054**	**0.075**
	Area (ha)	3.15	4.01	3.44	1.2	0.74	2.17	0.57
	Runoff Volume (mm)	61.28	103.34	44.34	97.88	49.99	47.17	234
	Runoff Volume (m^3)	1930.32	4143.93	1525.30	1174.56	369.93	1023.59	1333.80

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Existing WC11 Flow Direction

Proposed Alternative Options Flow Direction

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Identification of Alternative Solutions to the Problem

The project team are working on analyzing and identifying alternative solutions to the existing problem of flooding in the project area. Below are the tentative alternative solutions for consideration in addressing the problems and opportunities:

ALTERNATIVES	DESCRIPTION OF THE ALTERNATIVES
Alternative 1	Do Nothing
Alternative 2	Divert Subbasins SB1, SB2 & SB3 to the 50 Point Pond
Alternative 3	Divert Subbasin SB4 to the 50 Point Pond
Alternative 4	Divert Subbasin SB4, SB5 & SB7 to the Storm Sewers at Shippee and McCollum
Alternative 5	Combination of Alternative 2 and 4

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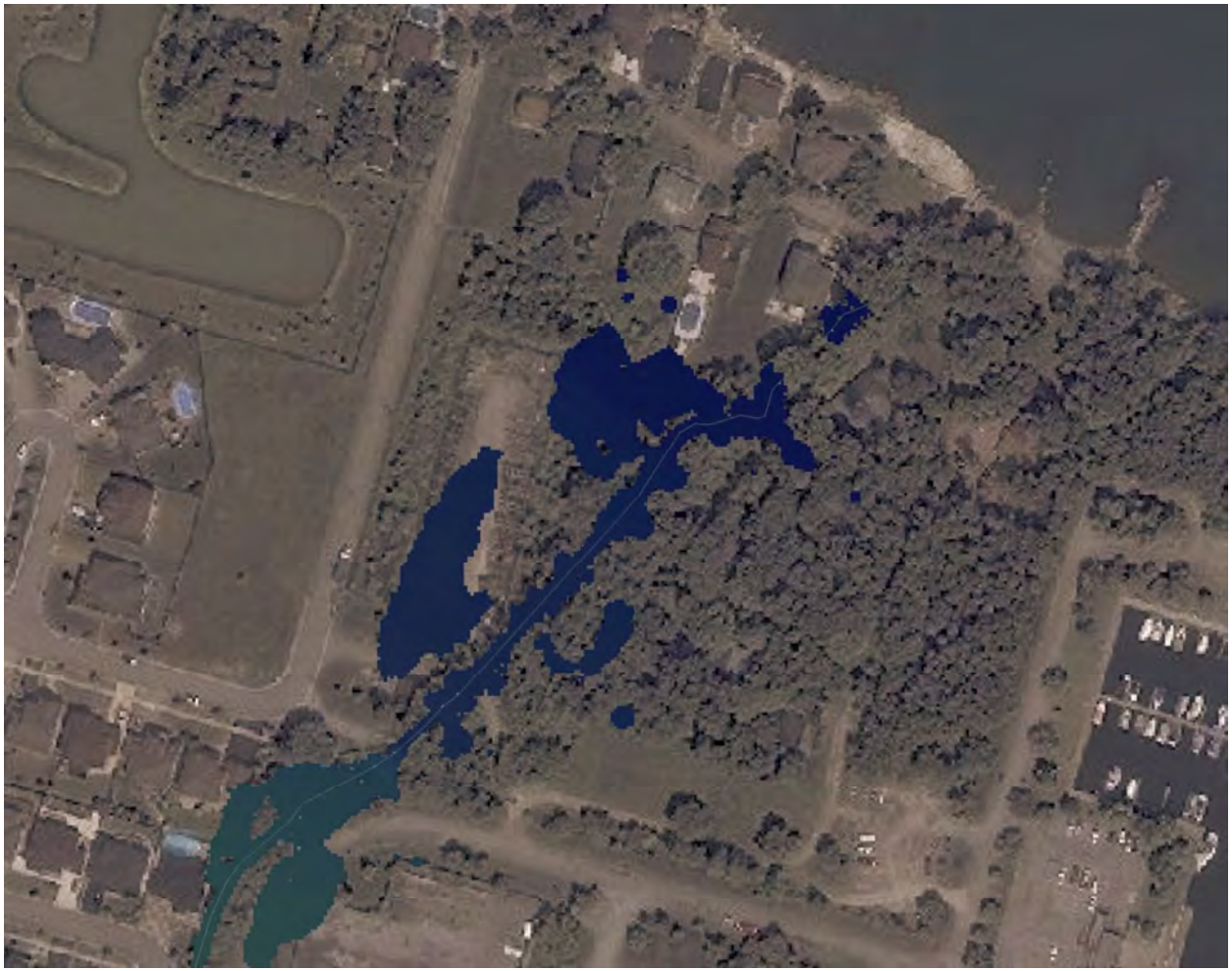
Existing Condition Floodplain: 100 Chicago Storm



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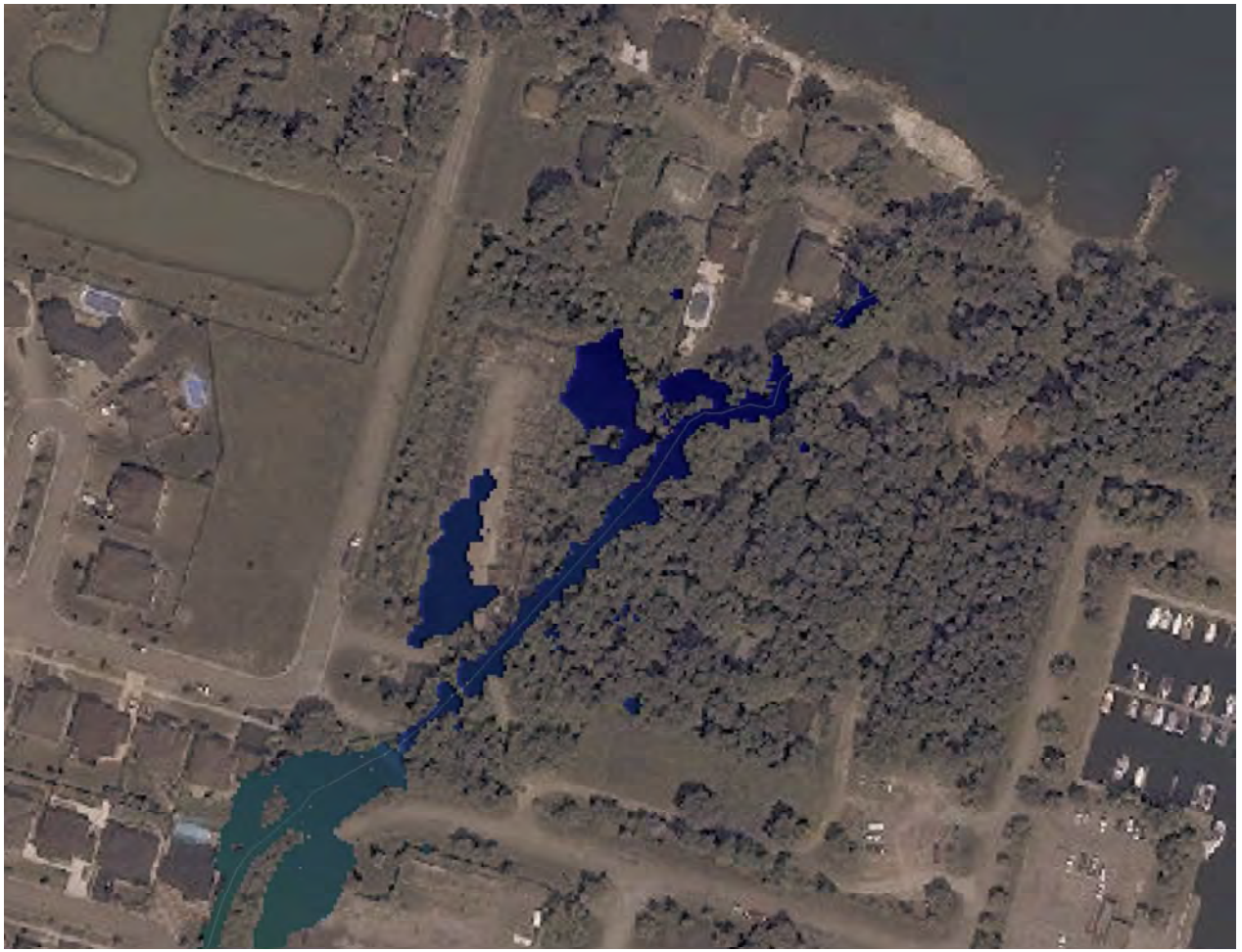
Alternative 2 Floodplain: 100 Chicago Storm



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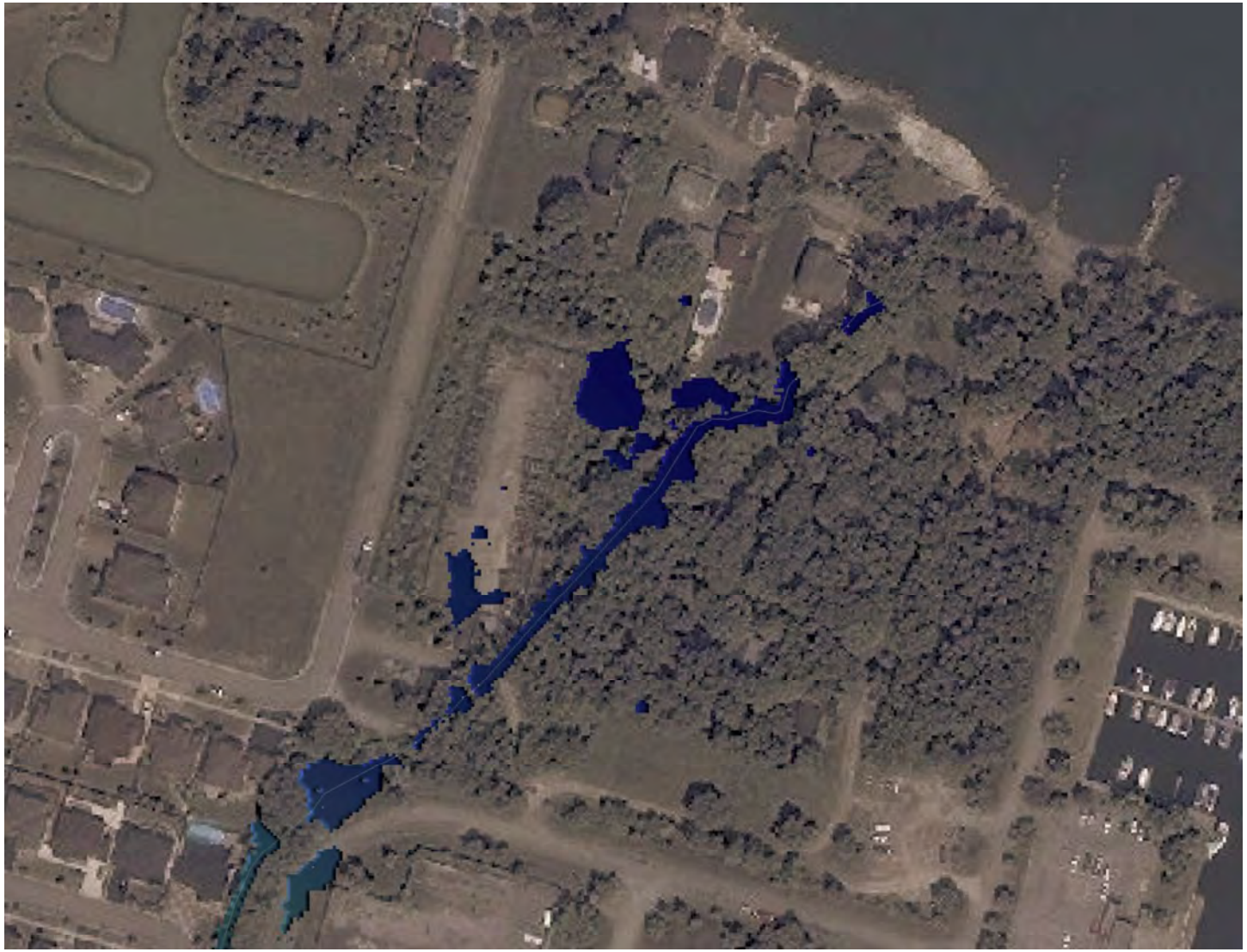
Combination Alternative 2 & 4 Floodplain: 100 Chicago Storm



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Alternative Assessment (Category)

Physical/Natural Environment: Hydrology, Hydraulic & Flooding, Coastal Process, Acquisition of Private Property, Integration with Existing Environment, Integration with Existing Infrastructure, Groundwater/ Hydrogeological, Natural Heritage, Wild life and Vegetation, Aquatic Species, Habitat

Social/Cultural Environment: Landowner acceptance, Public Health & Safety, Utility Lines

Technical/Engineering Factors: Ease of Implementation and Construction, Agency Acceptance, Official Policy, Secondary Policies and Bylaw Requirements, & Technical Feasibility

Economic Environment: Timing Constraints, Operation & Maintenance, Capital Cost & Lifecycle Cost

		CATEGORY	Physical/Natural Environment																								Social/Cultural Environment						Technical/Engineering Factors												Economic Environment				
		ISSUE	Hydrology, Hydraulic & Flooding					Coastal/Stream Process			Shoreline Erosion and Sedimentation		Protection/Acquisition of Private Property			Integration with Existing Environment		Integration with Existing Infrastructure		Groundwater/ Hydrogeological		Natural Heritage	Wild life and Vegetation		Aquatic Species, Habitat				Landowner Acceptance		Public Health & Safety	Traffic		Utility Lines	Ease of Implementation and Construction		Agency Acceptance					Official Policy, Secondary Policies and Bylaw Requirements	Technical Feasibility			Timing Constraints		Operation & Maintenance		Capital Cost	Lifecycle Cost	
		EVALUATION CRITERIA	Improvement to local hydrology	Improvement/decrease to high flows within channe carridor	Upstream flooding impact	Conservation Area flooding impact	Residential Flooding Impact	Improvement to stream form	Improvement to stream/channel/shoreline stability	Improvement to stream/Coastal function	Improvement to short-term erosion protection	Improvement to long-term erosion protection	Construction impact mitigation	Construction-related impacts-noise, dust, traffic	Potential long term effects for property damage/property acquisition due to the Alternative	Potential long-term effects on the existing environme	Available mitigation measures to mitigate the impac due to construction of alternative	Impact on existing infrastructure	Ease of intergration with existing infrastructure	Improvement on groundwater quality	Impact on local hydrogeology	Impact on natural heritage/area	Improvement to wildlife carridor function	Improvement to vegetation population	Short-term improvement to aquatic habitat	Short-term improvement to terrestrial habitat	Long-term improvement to aquatic habitat	Long-term improvement to terrestrial habitat	Ease of landowner acceptance	Potential probability of landowner suggestions/comments	Benefit for public health and safety	Improvements to current and future traffic condition	Potential traffic risk (e.g. collision tendency) associat with each alternative and mitigation measures	Conflict with existing utility lines under each alternat and avilability of mitigation measures (e.g. relocatio	Complexity	Mitigation to construction failure/issues	City of Hamilton	HCA	MNRF	DFO	Utility Companies	Compliance issues	Improvement to infrastructure existing condition	Feasibility of construction	Feasibility of implementation	Impact of duration of cold water fish mating season construction	Impact of duration of warm water fish mating seaso on construction	Requirements for maintenance	Frequency of maintenance and inspection required	Operational Cost	Cost to construct	Anticipated longevity of constructed Alternative	Overall Ranking
Alternatives	A1	Do Nothing	N/A	N/A	*	*	*	N/A	×	N/A	▲	▲	N/A	N/A	N/A	▲	▲	N/A	N/A	N/A	N/A	N/A	N/A	N/A	▲	▲	▲	▲	*	*	N/A	N/A	×	N/A	N/A	N/A	N/A	N/A	N/A	×	N/A	N/A	×	N/A	N/A	N/A	×	
	A2	Divert Subbasins SB1, SB2 & SB3 to the 50 Point Pond	*	*	*	✓	✓	N/A	*	*	*	*	*	♦	*	✓	♦	*	*	*	*	*	*	*	♦	*	♦	♦	*	♦	✓	*	*	♦	♦	♦	♦	♦	♦	♦	✓	✓	✓	*	*	♦	▲	✓	✓	✓	1
	A3	Divert Subbasin SB4 to the 50 Point Pond	*	*	*	✓	✓	N/A	*	*	*	*	*	♦	*	✓	♦	*	*	*	*	*	*	*	♦	*	♦	♦	*	♦	*	*	♦	♦	♦	♦	♦	♦	♦	✓	♦	♦	*	*	♦	▲	▲	✓	2
	A4	Divert Subbasin SB4, SB5 & SB7 to the Storm Sewers at Shippee and McCollum	*	▲	*	✓	✓	N/A	▲	*	*	▲	×	*	▲	✓	▲	♦	▲	*	*	*	N/A	▲	▲	*	*	*	▲	♦	*	*	♦	▲	♦	♦	♦	♦	♦	▲	*	*	*	*	▲	▲	×	×	▲	4
	A5	Combination of Alternative 2 and 4	*	*	✓	♦	✓	▲	▲	*	▲	*	▲	*	▲	✓	♦	▲	×	*	✓	♦	*	♦	▲	*	✓	*	▲	▲	*	*	♦	×	♦	♦	♦	♦	♦	♦	▲	♦	▲	*	*	♦	▲	×	×	♦	3

Method The alternatives were brought forward for detailed evaluation using the scoring system outlined

Scoring symbols

× negative impact

▲ some impacts will remin

♦ most impacts can be mitigated

✓ positive impact

* no significant impacts

N/A not applicable

Table 16: The Alternative Evaluation Table

comments from 56 Windemere Road, Winona

Issue:

My land is being flooded caused by the drainage water from Fifty Point Conservation utilizing the surface drainage ditches. It is to the point that my basement was flooded. My yard is soaked from the water seeping across from the drainage ditch. I am also on septic system which is affected by the hydraulics. During rain storms my yard floods to about 10 feet at the very least. I am unable to enjoy my property because of the soaked yard. My sump pump is continuously working overtime, causing frequent replacements.

I owned a house and lived directly on the lake across from my current house and we did not have this issue even when we were directly adjacent to the lake.

I am not equipped to handle the water drainage coming from the conservation. **The drainage has to be redirected to alleviate this issue.**

HCA has identified this drainage ditch as Watercourse 11 which has been closed for number of years**.**

The Report summoned by the City specifically states:

Watercourse 11 has also been replaced by an urban storm sewer system draining north to Lake Ontario, just east of Fifty Road.

Page 24 of May 15 2013 SCUBE East Sub-watershed Study

http://www.hamilton.ca/NR/rdonlyres/733ED1FA-7C19-4C1D-9C8A-44616AD91ADE/0/FWSCUBEEastPhase1and2.pdf

Note: May have to write the above link into address on google to access.

Comments:

1. The area indicated to the south as a catchment for drainage ditch where it begins is exaggerated. There is no way that water from lands south of Winston Road is draining into the ditch in question. Especially over a City owned road that has storm sewers. (See image next page)

2. The lake water is not pushing its way in the drainage ditch. There is a surge during storms but levels out quickly after that. The water levels are higher in the drainage ditch behind my house then it is in the ditch near the lake. Therefore, it is clearly coming from HCA lands.

3. The area indicated by the arrow above should not be even considered part of this portion of watercourse. HCA employee, “BRUCE MCKENZIE” who was the manager at Fifty Point Conservation, used a backhoe to dig up the ditch without an EA or any other required approvals, including an engineering plan. The fact that HCA insists on imposing their authority based that this is part of watercourse 11 is incorrect and unlawful.

Possible Solutions:

Some of the options in my view that should be considered are as follows:

1. Direct the drainage into the water basin at HCA as shown below. There are existing ditches there that can be used to redirect with very little financial impact on HCA.

2. Direct the balance of the drainage water into storm sewers at Shippee and McCollum (see image below). I am sure the existing city owned catchment pond can absorb the balance of the discharge after the diversion as suggested in (1) above.

This diversion will not only benefit us on Windemere and resolve our issues, but benefit HCA in revitalizing the trees and bushes that are being suffocated by the swamp created by the drainage water. These trees are not meant to exist in a swamp. HCA should consider these options seriously. These options have low financial impact and they get to live up to their mission to conserve an area, which they are killing ecologically by turning into a swamp.

Hamilton Conservation Authority
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AHYDTECH GEOMORPHIC
ADVANCED HYDROLOGY HYDRAULIC GEOMORPHOLOGY

Comment Sheet

Public Information Centre No.2
Flood Remediation Project - Watercourse 11, Fifty Point Conservation Area

Thank you for attending tonight's PIC meeting. Please provide any comments on material presented relating to the Environmental Assessment.

Would like to see SB9 & SB9 drained W to the pond on Shippee. The height or grade of the land will be of concern as it is very low.

There is a ditch that was dug in the park behind the homes on Windemere (south side) that takes the water from the properties and diverts water to the stream. Would it be possible to divert this water to the Shippee pond?

The preferred ~~alt~~ alternative that I would like to see is option # 5

(Please turn over if additional space is required)

Please complete your comment sheet this evening and place it I the comment box provided.

Personal information is collected under the authority of Section 29(2) of the Municipal Freedom of Information and Protection of Privacy Act, R.S.O. 1990, c.M.59 as amended. Any comments received will be collected under the Act and, with the exception of personal information, will become part of the public record

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ADVANCED HYDROLOGY HYDRAULIC GEOMORPHOLOGY

Comment Sheet

Public Information Centre No.2
Flood Remediation Project - Watercourse 11, Fifty Point Conservation Area

Thank you for attending tonight's PIC meeting. Please provide any comments on material presented relating to the Environmental Assessment.

Looks like youre on the right track hoping if the current construction on shippel is agreeable that your may be execute (alternative 5) consisting of alternative 2 & 4

(Please turn over if additional space is required)

Please complete your comment sheet this evening and place it I the comment box provided.

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Comment Sheet

Public Information Centre No.2
Flood Remediation Project - Watercourse 11, Fifty Point Conservation Area

Thank you for attending tonight's PIC meeting. Please provide any comments on material presented relating to the Environmental Assessment.

Would like to proceed with option 5 as soon as possible.

(Please turn over if additional space is required)

Please complete your comment sheet this evening and place it I the comment box provided.

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Scott

Thank for your response. I see that you indicate HCA would be opposed to complete closure of this ditch. Well how is that the HCA allowed full closure of stream 11 as it was? Was that not ecologically important?

I also note that HCA benefitted by selling or swapping lands at Winston Road through which the stream ran through.

I don't mean to be argumentative but rather reasonable. I didn't just move into this area and not aware of the historical transaction. I have been here for a long time and saw the changes over the years.

You are conducting an EA and that should be done with an open mind not just for the benefit of HCA.

Those are my comments for for your consultant.

Thanks

Good morning Scott,

Comment: Thank you for your effort in sorting this situation out and ordering the EA. I am generally pleased with the suggested option of diverting water as is being suggested. I am however, getting conflicting answers to amount of water that is going to be diverted. You suggested 50% and I have heard 75%.

HCA Response: The drainage area being diverted is approximately 2/3rds of the total watershed. My apologies for quoting 50% in our discussions. I was corrected at the PIC.

Comment: However, I am of the opinion that the ditch should be closed period. While the diversion helps, I don't see a point in having the remainder still open. As I have mentioned before, the lake levels have risen considerably and the lake surge causes this ditch to fill back in. If you are agreeable to have the City close their portion then please advise and I can pursue this with the City.

HCA Response: The is a regulated watercourse that serves both a drainage and natural heritage purpose. The point in keeping it open is to maintain the drainage and natural heritage features. HCA staff are not supportive of a total closure.

Comment: HCA is asking homeowners to build shorewalls that are considerably higher due to the lake level and the drainage opening into the lake is at water level. This is of concern and I would like to see this closed.

HCA Response: The shoreline is regulated by the HCA and any shoreline protection must meet the established protection criteria and be designed by a qualified professional engineer with coastal engineering experience. This requirement is not as a result of the recent high water levels, there is established criteria. The HCA cannot require or direct a landowner to establish shoreline protection measures. Our regulation and the need for a permit is triggered when development, new shoreline protection measures or repairing existing shore protection measures is proposed. The watercourse outflow to Lake Ontario would need to be accommodated as part of any shoreline protection proposal.

Comment: I also would like to see the HCA stop using the ditch running westerly along the south side of the Windemere Road properties. This ditch was dug out without any EA or engineering plan and I have personal knowledge of this. It was not done through due process hence it should be considered illegal.

HCA Response: This issue was raised at the PIC and we are reviewing.

I remain available for further discussion on this matter.

Have a great day and thank you.