



making our mark

NIAGARA
OFFICIAL PLAN

Natural Environment Work Program – Phase 4: Identification Options

Agricultural Policy and Action Committee
September 25, 2020



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Project Overview – Natural Environment

Project Phase	Activities
1	Project Initiation and Procurement
2	Background Study and Discussion Papers for Mapping and Watershed Planning Priority Areas
3	1 st Point of Engagement: Inform on Background Study
4	Develop and Evaluate Options for Natural System(s)
5	2 nd Point of Engagement: Consultation on Options for the Natural System(s)
6	Develop Regional Natural System(s)
7	Develop OP Policies & Finalize Mapping
8	3 rd Point of Engagement: Draft OP Policies and Schedules
9	Other Implementation Tools



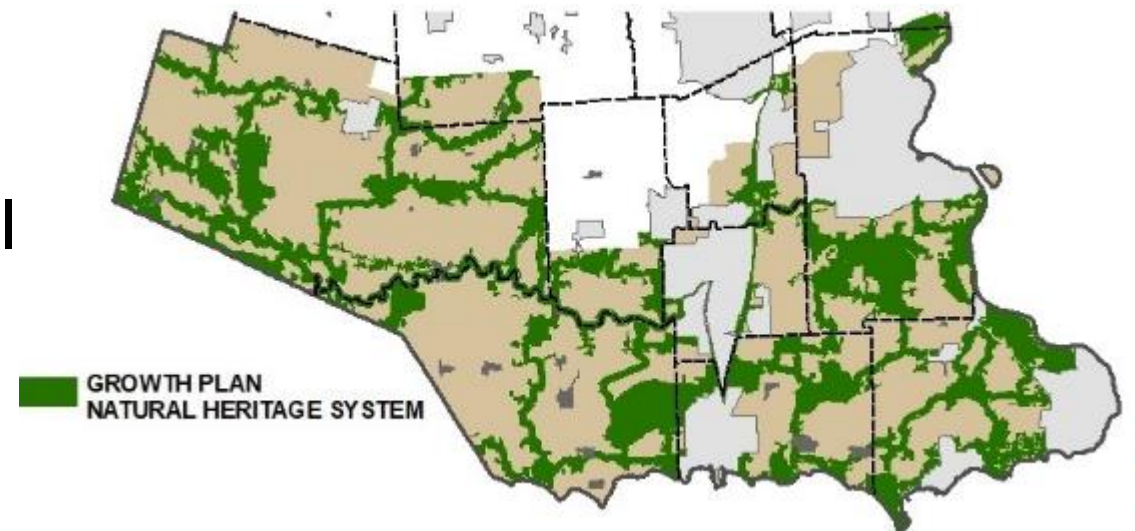
Overview of Phase 4

- Incremental step between the background reports and the mapping and policy development process
- Goal is to establish the overall direction for the natural heritage system (NHS) and water resource system (WRS)
- Based on concepts for the natural systems only. Mapping, criteria, and policies were developed to a level-of-detail that was required to support the evaluation and engagement process only
- Detailed and region-wide mapping to be completed in subsequent phases of the work program



Provincial Direction – Natural Environment

- The **Greenbelt Plan** and **Growth Plan NHSs** have been identified by the Province and are to be implemented by municipalities
- The Growth Plan and PPS also require that a water resource system be identified and protected
- The PPS identifies the types of natural features, areas, functions, that must be protected through Official Plan policies



Policy Direction – Natural Heritage System and Agricultural System



- In addition to preparing a map of the NHS, the Province has also mapped the agricultural system
- Within the agricultural system, the PPS and Growth Plan both require that Prime Agricultural Areas be designated in Official Plans
- In contrast, the Growth Plan and Greenbelt Plan requires NHS to be shown as overlay – to recognize the primacy of agriculture



Policy Direction – Natural Heritage System and Agricultural System

- Policies will not limit the ability of agricultural uses to continue (PPS 2.1.9)
- Greenbelt and Growth Plan NHS policies both provide a wide range of exemptions for new agricultural and agricultural-related buildings and structures
- The requirement for a natural buffer is exempt where lands will continue to be used for agricultural purposes



Policy Direction – Water Resource System (WRS)

- The Province has not prepared a map showing a W.R.S. – however, the Growth Plan requires that a W.R.S. be identified
- While some components of a W.R.S. can be identified (such as wetlands and stream corridors), other components can only be identified through future study



“Watershed planning or equivalent will inform ...the identification of water resource systems.” (Growth Plan, 4.2.1.3a)



Developing Options for the Natural Environment System

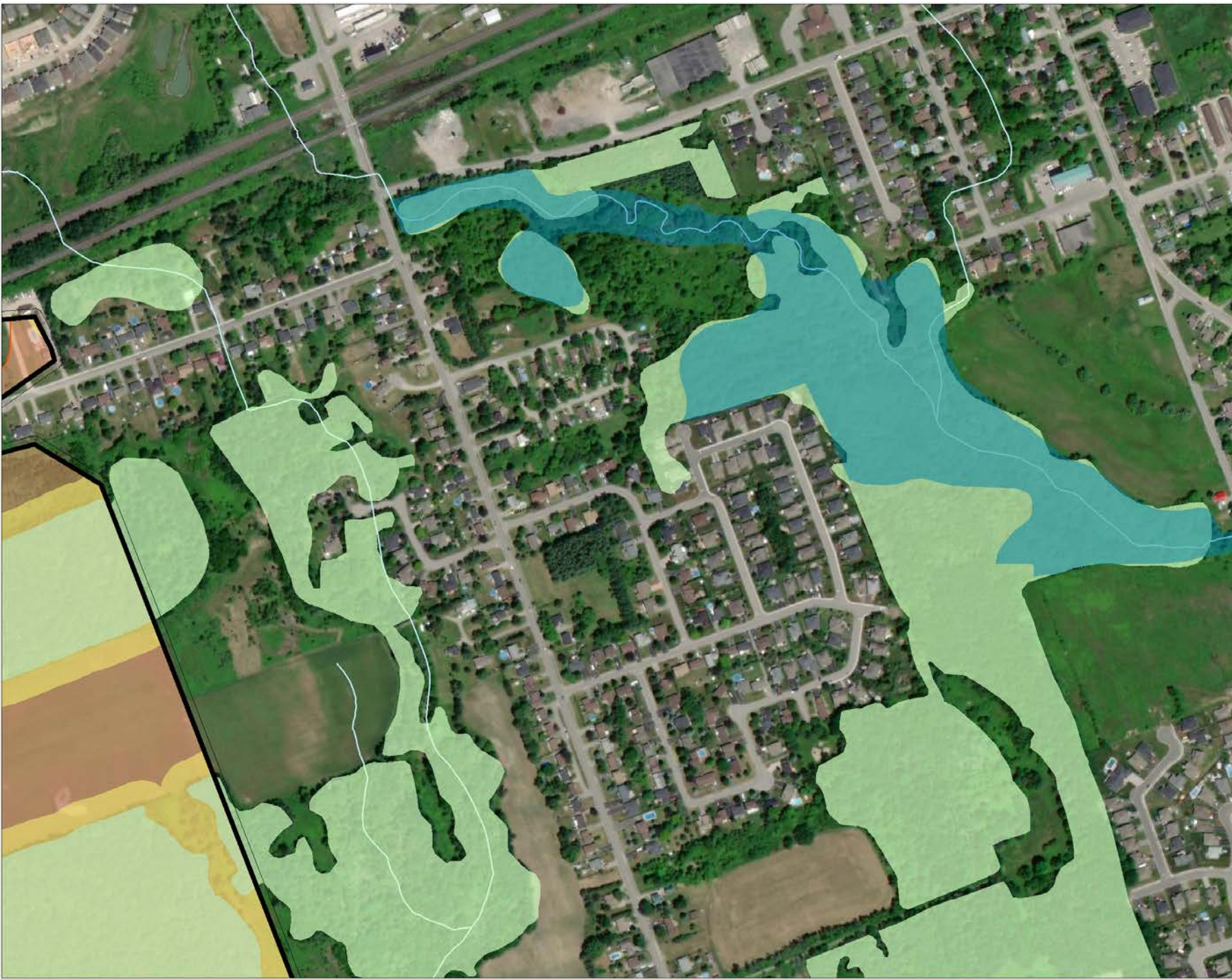
- Range of considerations were reflected in the development of options including:
 - Impacts on agricultural community and rural development
 - Provincial requirements to accommodate growth and plan for complete communities in settlement areas
 - Best practices and recent issues and trends in natural environment planning including climate change & invasive species
 - The range of input received through the 1st point of engagement
 - The range of local needs and priorities across Niagara
- All of the options identified:
 - Conform with provincial requirements
 - Represent an increase as compared to the existing system and policies in Niagara



Natural Heritage System Options

- Option 1 - “Minimum Standards – Overlay”
 - Implements minimum standards of PPS and provincial plans
 - Relies on the provincial NHSs to fulfil the requirements for a ‘system-based’ approach
 - Key features required by provincial plans would be mapped, including significant features identified by the PPS. outside of the Provincial NHSs
 - The NHS including individual features would be shown as an overlay in the Official Plan schedules
- Option 2 - “Minimum Standards – Designation”
 - Same as Option 1 but the key/significant features would be designated as a mutually exclusive land use on the Official Plan schedules
- Option 3 – “Going Beyond Minimum Standards”
 - Builds upon Option 1 and 2 by providing three scenarios that exceed minimum provincial standards, and includes an increasing range of additional components, regional linkages, and buffers.





Conceptual Natural Heritage System Settlement Area Option 1 and 2

Legend

-  Settlement Area
- Required Components**
-  Growth Plan Natural Heritage System
-  Vegetation Protection Zones
-  Significant Woodlands
-  Provincially Significant Wetland
-  Watercourses

These maps are conceptual and for illustration purposes. These maps were prepared to demonstrate the differences between the various NHS options and are not intended to depict specific areas in Niagara Region.



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Conceptual Natural Heritage System Outside Settlement Area Option 1 and 2

Legend

Required Components

- Growth Plan Natural Heritage System
- Vegetation Protection Zones
- Significant Woodlands
- Provincially Significant Wetlands
- Watercourses

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Comparison of Option 3A, 3B, & 3C

	N.H.S. 3A	N.H.S. 3B	N.H.S. 3C
Component Features and Areas	<ul style="list-style-type: none"> • Key Natural Heritage Features within the N.E.P. • Other Key Natural Features and Areas outside of provincial N.H.S.s, but only outside of settlement areas 	<ul style="list-style-type: none"> • Key Natural Heritage Features within the N.E.P. as per Option 3A • Other Key Natural Features and Areas outside of provincial N.H.S.s both outside and in settlement areas • Supporting Features and Areas outside of settlement areas 	<ul style="list-style-type: none"> • Key Natural Heritage Features within the N.E.P. as per Options 3A and 3B • Other Key Natural Features and Areas outside of provincial N.H.S.s both outside and in settlement areas as per Option 3B • Supporting Features and Areas in all of the Region, including both outside and within settlement areas
Connecting the System (linkages)	<ul style="list-style-type: none"> • Large Linkages only between Key Natural Features and Areas outside of settlement areas 	<ul style="list-style-type: none"> • Large and Medium Linkages between Key Natural Features and Areas outside of settlement areas 	<ul style="list-style-type: none"> • Large, Medium and Small Linkages between Key Natural Features and Areas outside of settlement areas • Small Linkages between Key Natural Features and Areas in settlement areas where the potential linkage area is in a natural state
Buffers/ Vegetation Protection Zones (to Key Natural Features and Areas)	<ul style="list-style-type: none"> • Suggested policy minimums outside of provincial N.H.S.s and outside of settlement areas 	<ul style="list-style-type: none"> • Suggested policy minimums outside of provincial N.H.S.s, both inside and outside of settlement areas 	<ul style="list-style-type: none"> • Mandatory buffers outside of settlement areas (that can be reduced through study) with suggested policy minimums inside settlement areas



Conceptual Natural Heritage System Settlement Area Option 3A

Legend

-  Settlement Area
- Required Components**
-  Growth Plan Natural Heritage System
-  Vegetation Protection Zones
-  Significant Woodlands
-  Provincially Significant Wetland
-  Watercourses

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Conceptual Natural Heritage System Outside Settlement Area Option 3A

Legend

Required Components

- Growth Plan Natural Heritage System
- Vegetation Protection Zones
- Significant Woodlands
- Provincially Significant Wetlands
- Watercourses

Optional Components

Other Key Features

- Wetlands (non-Provincially Significant)

Linkages

- Large Linkage (400m)
- Mandatory (non-prescribed) Buffers

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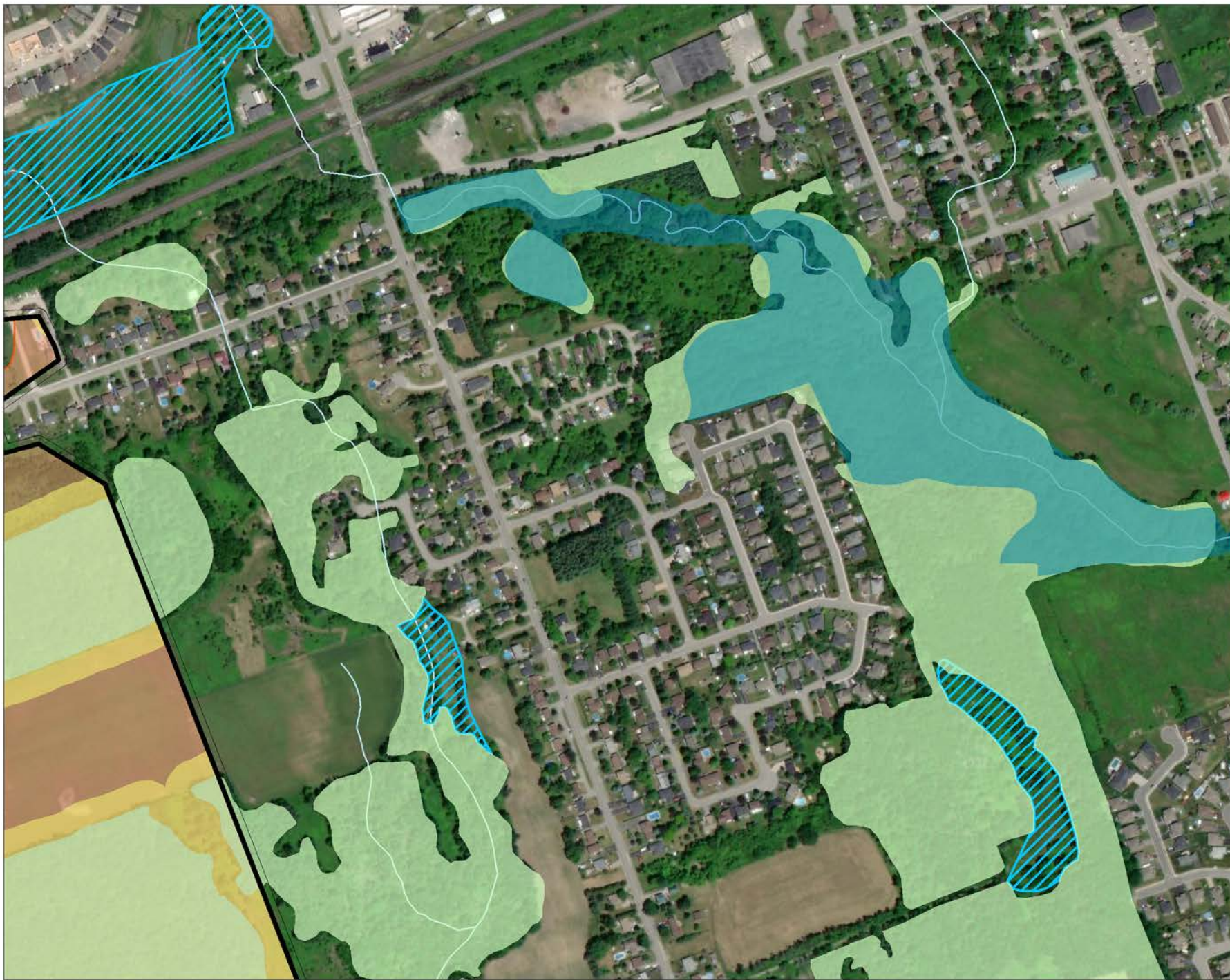


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Conceptual Natural Heritage System Settlement Area Option 3B

- Legend**
- Settlement Area
 - Required Components**
 - Growth Plan Natural Heritage System
 - Vegetation Protection Zones
 - Significant Woodlands
 - Provincially Significant Wetland
 - Watercourses
 - Optional Components**
 - Other Key Features**
 - Wetland (non-Provincially Significant)

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Conceptual Natural Heritage System Outside Settlement Area Option 3B



- Legend**
- Required Components**
- Growth Plan Natural Heritage System
 - Vegetation Protection Zones
 - Significant Woodlands
 - Provincially Significant Wetlands
 - Watercourses
- Optional Components**
- Other Key Features
- Wetlands (non-Provincially Significant)
- Supporting Features and Areas
- Enhancement Areas
 - Other Woodlands
- Linkages
- Large Linkage (400m)
 - Medium Linkage (200m)
 - Minimum (prescribed) Buffers

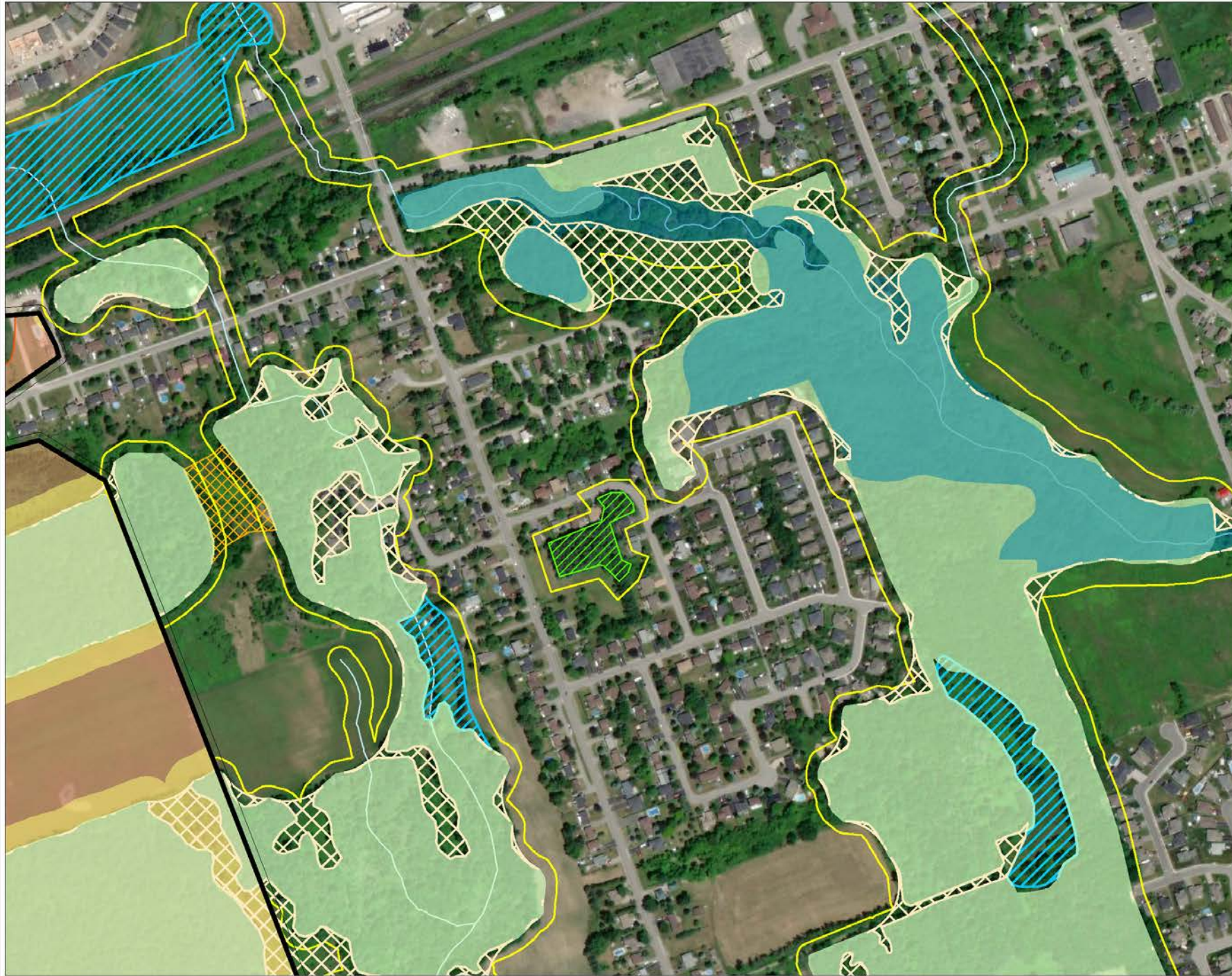
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Conceptual Natural Heritage System Settlement Area Option 3C

- Legend**
- Settlement Area
 - Required Components**
 - Growth Plan Natural Heritage System
 - Vegetation Protection Zones
 - Significant Woodlands
 - Provincially Significant Wetland
 - Watercourses
 - Optional Components**
 - Other Key Features**
 - Wetlands (non-Provincially Significant)
 - Supporting Features and Areas**
 - Other Woodlands
 - Enhancement Areas
 - Linkages**
 - Small Linkage (100m)
 - Mandatory (non-prescribed) Buffers

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Conceptual Natural Heritage System: Outside Settlement Area Option 3C

Legend

Required Components

- Growth Plan Natural Heritage System
- Vegetation Protection Zones
- Significant Woodlands
- Provincially Significant Wetlands
- Watercourses

Optional Components

Other Key Features

- Wetlands (non-Provincially Significant)

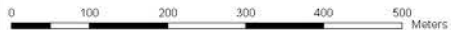
Supporting Features and Areas

- Enhancement Areas
- Other Woodlands

Linkages

- Large Linkage (400m)
- Medium Linkage (200m)
- Small Linkage (100m)
- Minimum (prescribed) Buffers

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Water Resource System Options




- “Informed by watershed planning or equivalent”
 - ‘Niagara Watershed Plan’ project has been initiated by the Region
- Option 1 - “Minimum Standards – Overlay”
 - Implements minimum standards of PPS, Growth Plan, and Greenbelt Plan
- Option 2 - “Going Beyond Minimum Standards”
 - Same as Option 1 but identified additional/optional components:
 - Option 2A – additional/optional features outside of settlement areas only
 - Option 2B – additional/optional features Region-wide, including within settlement areas




Niagara Region Natural Environment Work Program Water Resource System - Option 1 and 2

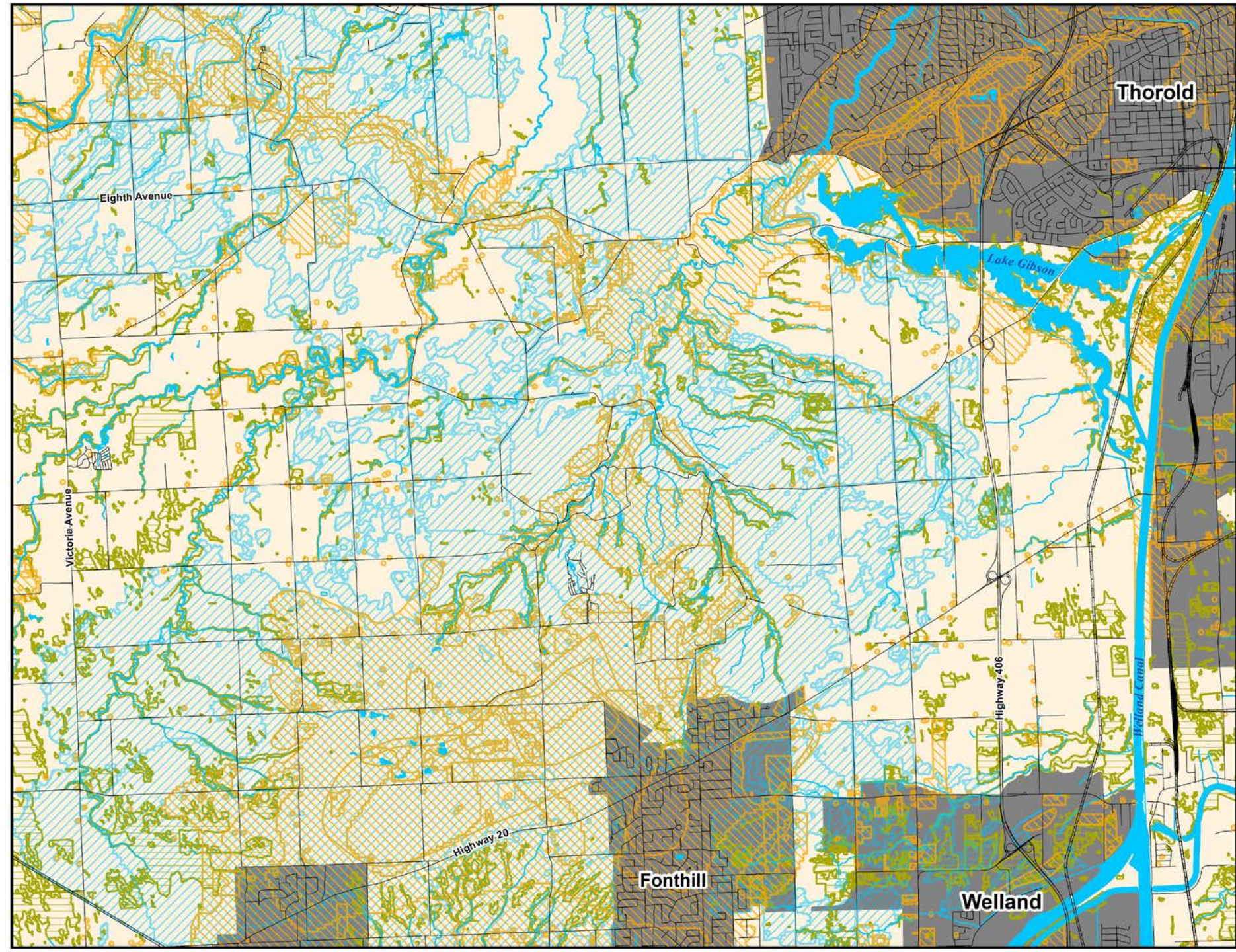
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Key Hydrologic Features

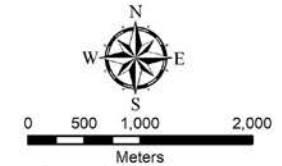
-  Wetlands
-  Waterbodies
-  Watercourses

Key Hydrologic Areas

-  Significant Groundwater Recharge Areas
-  Highly Vulnerable Aquifers
-  Roads
-  Railway
-  Settlement Areas



Conceptual figure for discussion purposes only



north-south
ENVIRONMENTAL



June 11, 2020

SUSTAINABLE REGION NATURAL ENVIRONMENT



Additional Considerations for the Natural Environment System

- Offsetting will not be considered as part of the policy framework for the new Niagara Official Plan
- Fish habitat is not recommended to be mapped as part of the new Niagara Official Plan
- There will be a need to update existing guidelines, and to prepare new guidelines to support the implementation of the NHS and WRS



Central Mudminnow (bottom) can be found in slow moving streams, marshes, weedy ponds and ditches.



Next Steps



1. Receive feedback through 2nd point of engagement with public, stakeholders, and Indigenous groups
2. Analyze the input received to recommend the final preferred options
3. Seek council endorsement of final preferred options
4. Prepare detailed design of the preferred options and recommendations for OP policies

