
APPENDIX N

Public Consultation

Key Stakeholders

List of Review Agencies

| Review Agencies | Stakeholder Status | Notes |
|---|---------------------------|---|
| Ministry of Environment Conservation and Parks (MECP) | Requesting Participation | Future engagement as required for any subsequent Sched. B or C EA requirements from Master Plan Recommendations |
| Region of York | Requesting Participation | Future engagement as required for any subsequent Sched. B or C EA requirements from Master Plan Recommendations |
| Other adjacent municipalities- Peel Region, Simcoe County, Town of Newmarket, Town of Aurora, City of Vaughan | Not Included at this time | Future engagement as required for any subsequent Sched. B or C EA requirements from Master Plan Recommendations |
| Toronto Region Conservation Authority (TRCA) | Requesting Participation | Future engagement as required for any subsequent Sched. B or C EA requirements from Master Plan Recommendations |
| Lake Simcoe Region Conservation Authority (LSRCA) | Requesting Participation | Future engagement as required for any subsequent Sched. B or C EA requirements from Master Plan Recommendations |
| Ministry of Municipal Affairs and Housing (MMAH) | Not Included at this time | Future engagement as required for any subsequent Sched. B or C EA requirements from Master Plan Recommendations |
| Ministry of Northern Development, Mines, Natural Resources and Forestry (MNDMNRF) | Not Included at this time | Future engagement as required for any subsequent Sched. B or C EA requirements from Master Plan Recommendations |
| Department of Fisheries and Oceans (DFO) | Not included at this time | Future engagement as required for any subsequent Sched. B or C EA requirements from Master Plan Recommendations |

Indigenous Community Contact List

| Indigenous Community | Contact Details |
|--|--|
| Williams Treaties First Nation | Email: communications@williamstreatiesfirstnations.ca ; k.a.sandy-mckenzie@rogers.com |
| Hiawatha First Nations | 123 Paudash Street Hiawatha, Ontario K9J 0E6 Canada Tel: (705) 295-4421 Email: info@hiawathafn.ca ; Ffnadministrator@hiawathafn.ca |
| Curve Lake First Nation | 22 Winookeedaa Road, Curve Lake, ON K0L 1R0 P: 705.657.8045 ext. 209 F: 705.657.8708 Email: Communication@curvelake.ca ; BrandonJ@curvelake.ca |
| Alderville First Nation | 11696 Second Line Rd Alderville, ON K0K 2X0 905-352-2011 905-352-3242 (General Fax) Email: dmowat@alderville.ca ; wmarsden@alderville.ca ; jbmarsden@aldervillefirstnation.ca |
| Mississauga's of Scugog Island First Nation | Mississauga's of Scugog Island First NationAdministration Building 22521 Island Road Port Perry, ON L9L 1B6 905-985-3337 Email: info@scugogfirstnation.com ; Consultation@scugogfirstnation.com ; Msanford@scugogfirstnation.com |
| Chippewas of Georgina Island | R.R.#2 Box N-13 Sutton West, Ontario L0E 1R0 P: 705-437-1337 F: 705-437-4597 Email: janice.taylor@georginaisland.com |
| Chippewas of Rama First Nation (Chippewas of Mnjikaning) | 5884 Rama Road, Suite 200, Rama ON, L3V 6H6 Phone: (705) 325-3611 Toll-free: 1-866-854-2121 Fax: (705) 325-0879 Email: dans@ramafirstnation.ca ; admin@ramafirstnation.ca ; samanthac@ramafirstnation.ca |
| Beausoleil First Nation | 11 O'Gema Miikaan Christian Island, ON L9M 0A9 Tel: (705) 247-2051 Fax: (705) 247-2239 Email: info@chimnissing.ca ; ajamieson@chimnissing.ca |

| | |
|--|---|
| Huron-Wendat Nation (only if there are archaeological impacts) | 255, place Chef Michel Laveau Wendake (Québec) G0A 4V0 Téléphone : 418-843-3767 Ligne sans frais : 1 (877) 712-3767 Télécopieur: 418-842-1108 Email: administration@cnhw.qc.ca; jeanne.bolduc@cnhw.qc.ca; mario.groslouis@cnhw.qc.ca |
| Metis Nation of Ontario Lands, Resources and Consultation Office | Suite 1100 – 66 Slater Street Ottawa, ON K1P 5H1 Suite 1100 – 66 Slater Street Phone: 613-798-1488 Toll Free Phone: 1-800-263-4889 Email: consultations@metisnation.org ; info@metisnation.org; Tedc@metisnation.org |
| MNO Region 7 Councillor David Dusome | Suite 1100 – 66 Slater Street Ottawa, ON K1P 5H1 Phone: 613-798-1488 Toll Free Phone: 1-800-263-4889 Email: info@metisnation.org |

Notice of Commencement



**TOWNSHIP OF KING
CLASS ENVIRONMENTAL ASSESSMENT
COMPREHENSIVE STORMWATER MANAGEMENT MASTER PLAN
NOTICE OF COMMENCEMENT**

The Township of King has retained Civica Infrastructure Inc. to prepare a Comprehensive Stormwater Management Master Plan. The Master Plan will characterize existing hydrologic conditions in areas within and downstream of proposed development areas as per the Township's Official Plan, evaluate current stormwater practices, and set targets for surface runoff quantity and quality for future developments to adhere to. The study will also investigate potential retrofit opportunities within existing stormwater management facilities to assist in meeting these targets.

The Township of King is situated within watersheds managed by the Lake Simcoe Region Conservation Authority (LSRCA) and the Toronto and Region Conservation Authority (TRCA). In particular, the Township is within the West Holland River and the East Holland River (LSRCA), and the Humber River (TRCA). Stormwater management targets from both conservation authorities will be taken into account as part of the study.

The Master Plan will adhere to the process as per the Municipal Class Environmental Assessment (EA) in Ontario which requires public consultation at various times during the process. The EA process will include two Public Information Centre (PIC) meetings to allow the public input from residents, landowners, regulatory agencies and other stakeholders. This input will be considered and will assist in the planning process. The PICs are anticipated to be held during January and March of 2020. A specific date and time for each PIC meeting will be advertised as the study progresses. In addition, information regarding this study will be posted on the Township of King's website within the 'Stormwater Master Plan' link at www.king.ca.

If you would like to provide input or require any further information related to this study, please send your comments and questions to info@civi.ca or contact either of the following:

Engineering & Public Works
Township of King
2585 King Road
King City, ON, L7B 1A1
dvanveen@king.ca
Tel: (905) 833-5321

Attention:
David Van Veen, C. Tech
Senior Project Manager

Civica Infrastructure Inc.
Consultant
330 Rodinea Road., Unit #3
Vaughan, ON, L6A 4P5
info@civi.ca
Tel: (905) 417-9797

Attention:
Edward Graham, M.A.Sc., P.Eng.
President & Project Manager

List of Contacted Review Agencies

| Review Agencies | Stakeholder Status | Notes |
|---|---------------------------|---|
| Ministry of Environment Conservation and Parks (MECP) | Requesting Participation | Future engagement as required for any subsequent Sched. B or C EA requirements from Master Plan Recommendations |
| Region of York | Requesting Participation | Future engagement as required for any subsequent Sched. B or C EA requirements from Master Plan Recommendations |
| Other adjacent municipalities- Peel Region, Simcoe County, Town of Newmarket, Town of Aurora, City of Vaughan | Not Included at this time | Future engagement as required for any subsequent Sched. B or C EA requirements from Master Plan Recommendations |
| Toronto Region Conservation Authority (TRCA) | Requesting Participation | Future engagement as required for any subsequent Sched. B or C EA requirements from Master Plan Recommendations |
| Lake Simcoe Region Conservation Authority (LSRCA) | Requesting Participation | Future engagement as required for any subsequent Sched. B or C EA requirements from Master Plan Recommendations |
| Ministry of Municipal Affairs and Housing (MMAH) | Not Included at this time | Future engagement as required for any subsequent Sched. B or C EA requirements from Master Plan Recommendations |
| Ministry of Northern Development, Mines, Natural Resources and Forestry (MNDMNRF) | Not Included at this time | Future engagement as required for any subsequent Sched. B or C EA requirements from Master Plan Recommendations |
| Department of Fisheries and Oceans (DFO) | Not included at this time | Future engagement as required for any subsequent Sched. B or C EA requirements from Master Plan Recommendations |

Notice to Indigenous Communities



**TOWNSHIP OF KING
CLASS ENVIRONMENTAL ASSESSMENT
COMPREHENSIVE STORMWATER MANAGEMENT MASTER PLAN
NOTICE TO INDIGENOUS COMMUNITIES**

The Township of King has retained Civica Infrastructure Inc. to prepare a Comprehensive Stormwater Management Master Plan. The Master Plan has characterized existing hydrologic conditions in areas within and downstream of proposed development areas defined in the Township of King's Official Plan, evaluates current stormwater practices, and sets targets for surface runoff quantity and quality for future developments to adhere to. The study will also investigate potential retrofit opportunities within existing stormwater management facilities to assist in meeting these targets. The Township is reaching out to your community for your input to be considered in the planning process and determine any potential affects on your community.

The Township of King is situated within watersheds managed by the Lake Simcoe Region Conservation Authority (LSRCA) and the Toronto and Region Conservation Authority (TRCA). In particular, the Township is within the West Holland River and the East Holland River (LSRCA), and the Humber River (TRCA). Stormwater management targets from both conservation authorities will be considered as part of the study.

The Master Plan will adhere to the process as per the Municipal Class Environmental Assessment (EA) in Ontario which requires public consultation at various times during the process. The EA process has included two Public Information Centre (PIC) meetings where the existing problems and preferred solution were presented. The preferred solution for addressing stormwater runoff in the Township is to use traditional stormwater management ponds in combination with LID measures. The alternative solutions were presented along with details of the types and functions of different LIDs that can be implemented in the Township along with traditional storm ponds. These meetings have been recorded and are available on the Township's website for viewing here:

<https://speaking.king.ca/stormwater-master-plan>

The project is coming to a close and is expected to be presented to Township Council in late May 2021. We hope to hear your input on the project and will follow up with a review of the Final Master Plan.

If you would like to provide input or require any further information related to this study, please send your comments and questions to info@civi.ca or contact either of the following:

Engineering & Public Works
Township of King
2585 King Road
King City, ON, L7B 1A1
dwilkinson@king.ca

Attention:
Daniel Wilkinson, C.E.T.
Environmental Project Manager

Civica Infrastructure Inc.
Consultant
330 Rodinea Road., Unit #3
Vaughan, ON, L6A 4P5
kedgington@civi.ca

Attention:
Karen Edgington, P.Eng.
Project Manager

Indigenous Community Contact List

| Indigenous Community | Contact Details |
|--|--|
| Williams Treaties First Nation | Email: communications@williamstreatiesfirstnations.ca ; k.a.sandy-mckenzie@rogers.com |
| Hiawatha First Nations | 123 Paudash Street Hiawatha, Ontario K9J 0E6 Canada Tel: (705) 295-4421 Email: info@hiawathafn.ca ; Ffnadministrator@hiawathafn.ca |
| Curve Lake First Nation | 22 Winookeedaa Road, Curve Lake, ON K0L 1R0 P: 705.657.8045 ext. 209 F: 705.657.8708 Email: Communication@curvelake.ca ; BrandonJ@curvelake.ca |
| Alderville First Nation | 11696 Second Line Rd Alderville, ON K0K 2X0 905-352-2011 905-352-3242 (General Fax) Email: dmowat@alderville.ca ; wmarsden@alderville.ca ; jbmarsden@aldervillefirstnation.ca |
| Mississauga's of Scugog Island First Nation | Mississauga's of Scugog Island First NationAdministration Building 22521 Island Road Port Perry, ON L9L 1B6 905-985-3337 Email: info@scugogfirstnation.com ; Consultation@scugogfirstnation.com ; Msanford@scugogfirstnation.com |
| Chippewas of Georgina Island | R.R.#2 Box N-13 Sutton West, Ontario L0E 1R0 P: 705-437-1337 F: 705-437-4597 Email: janice.taylor@georginaisland.com |
| Chippewas of Rama First Nation (Chippewas of Mnjikaning) | 5884 Rama Road, Suite 200, Rama ON, L3V 6H6 Phone: (705) 325-3611 Toll-free: 1-866-854-2121 Fax: (705) 325-0879 Email: dans@ramafirstnation.ca ; admin@ramafirstnation.ca ; samanthac@ramafirstnation.ca |
| Beausoleil First Nation | 11 O'Gema Miikaan Christian Island, ON L9M 0A9 Tel: (705) 247-2051 Fax: (705) 247-2239 Email: info@chimnissing.ca ; ajamieson@chimnissing.ca |

| | |
|--|---|
| Huron-Wendat Nation (only if there are archaeological impacts) | 255, place Chef Michel Laveau Wendake (Québec) G0A 4V0 Téléphone : 418-843-3767 Ligne sans frais : 1 (877) 712-3767 Télécopieur: 418-842-1108 Email: administration@cnhw.qc.ca; jeanne.bolduc@cnhw.qc.ca; mario.groslouis@cnhw.qc.ca |
| Metis Nation of Ontario Lands, Resources and Consultation Office | Suite 1100 – 66 Slater Street Ottawa, ON K1P 5H1 Suite 1100 – 66 Slater Street Phone: 613-798-1488 Toll Free Phone: 1-800-263-4889 Email: consultations@metisnation.org ; info@metisnation.org; Tedc@metisnation.org |
| MNO Region 7 Councillor David Dusome | Suite 1100 – 66 Slater Street Ottawa, ON K1P 5H1 Phone: 613-798-1488 Toll Free Phone: 1-800-263-4889 Email: info@metisnation.org |

PIC#1

| PIC # 1 |
|---------------------|
| Number of Attendees |
| 20 |

WELCOME!

Township of King Comprehensive Stormwater Management Master Plan Public Information Centre # 1



WHAT IS THE TOWNSHIP OF KING STORMWATER MANAGEMENT MASTER PLAN?

A Comprehensive Stormwater Management Master Plan (CSWM-MP) will serve as a tool to...

- Facilitate the protection and restoration of natural watershed functions
- Protect surface/groundwater systems
- Facilitate maintenance of stormwater infrastructure
- Implement stormwater regulations for new and redevelopment areas
- Promote run off reduction and improve water quality, quantity, and water balance
- Provide stormwater education and assistance to the community

WHAT IS THE TOWNSHIP OF KING STORMWATER MANAGEMENT MASTER PLAN?

Objectives of the CSWM-MP



Accommodate for stormwater impacts caused by increase in population and urbanization



Minimize the potential for flooding



Mitigate environmental impacts of stormwater



Protect natural habitats and fisheries

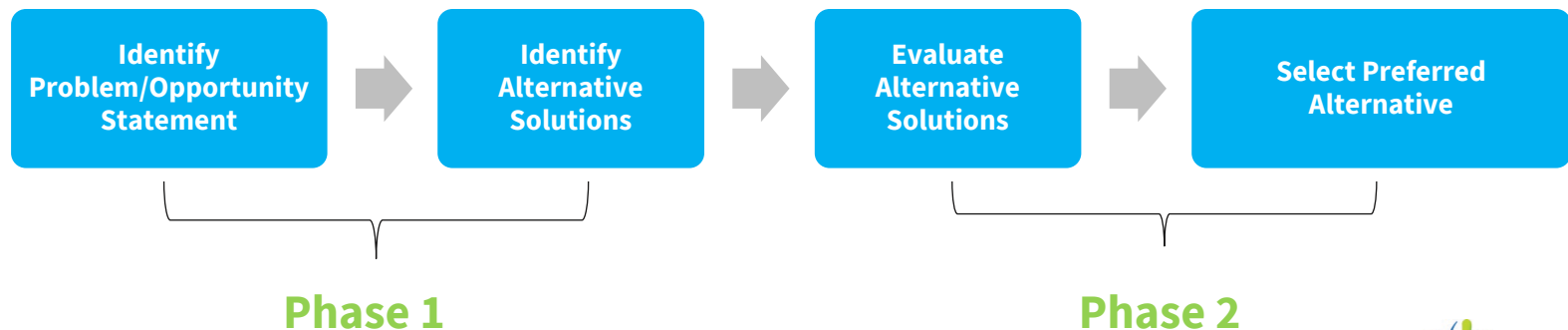


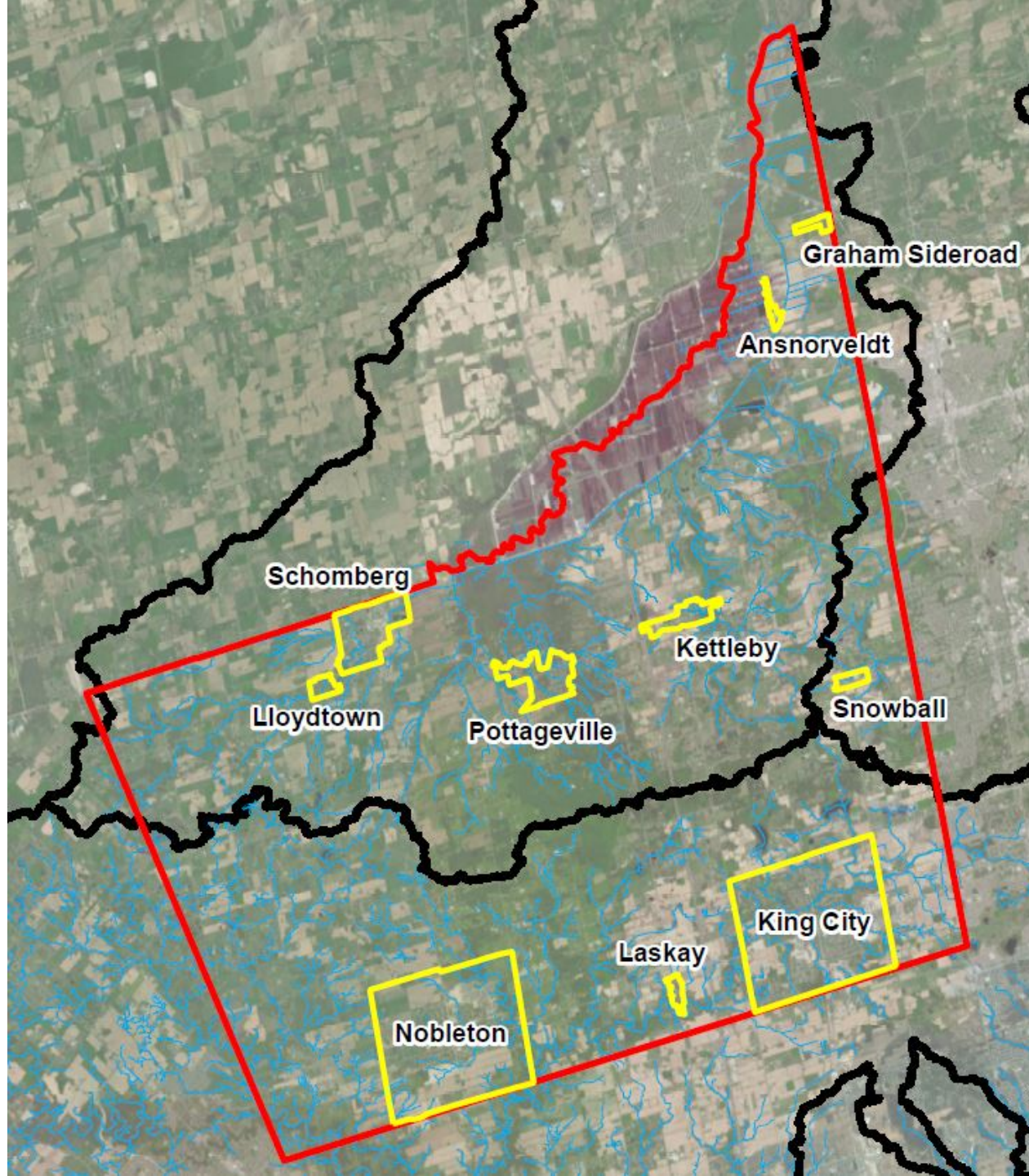
Enhance quality of life for residents of the Township

WHAT IS THE TOWNSHIP OF KING STORMWATER MANAGEMENT MASTER PLAN?

The Municipal Class Environmental Assessment (EA) Process

- **The CSWM-MP follows approach 1 of the Municipal Class EA process and is completed in two (2) phases**





Township of King: Existing Storm Infrastructure

Culverts



Drainage Ditches



SWM Ponds

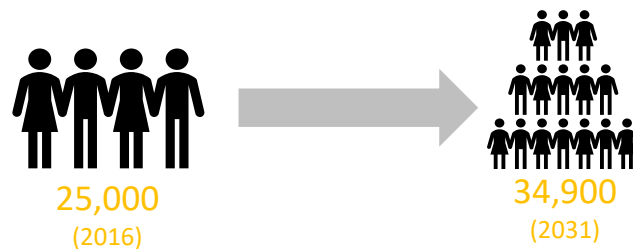
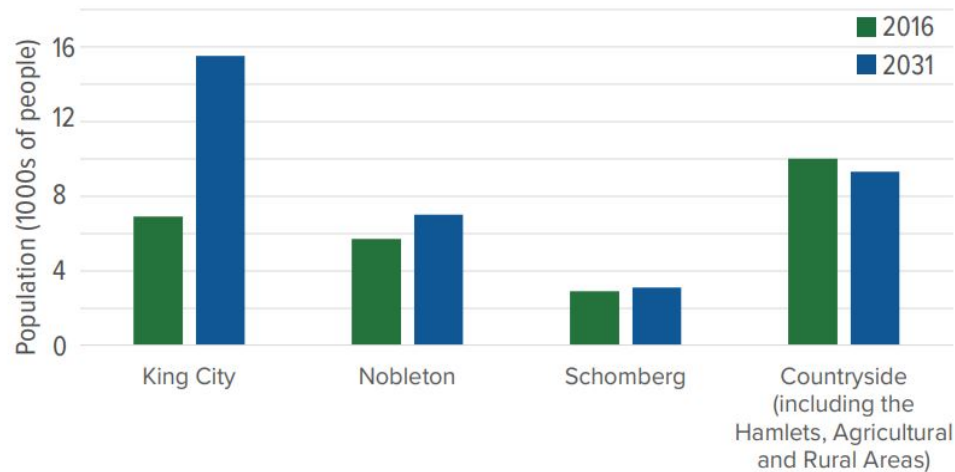


Storm Sewers



Township of King: Future Growth

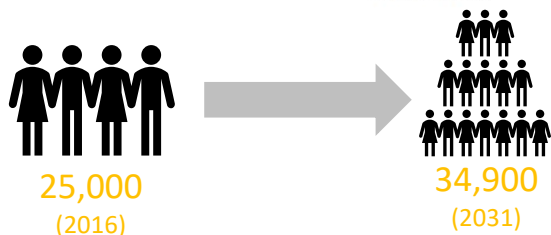
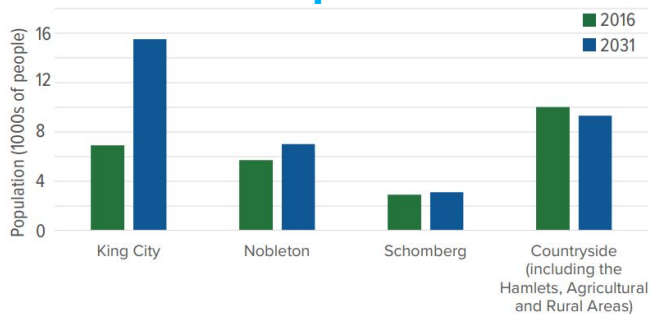
Township Growth



This projected growth in Township population will be accommodated by the construction of various residential and commercial developments in the villages of King City, Nobleton and Schomberg.

Township of King: Existing Conditions

Township Growth



This projected growth in Township population will be accommodated by the construction of various residential and commercial developments in the villages of King City, Nobleton and Schomberg.

Currently, stormwater runoff is controlled in the Township using...



Culverts



SWM Ponds



Drainage Ditches



Storm Sewers

Existing Stormwater Infrastructure Condition

Stormwater Ponds

The Township currently owns and operates 28 stormwater management ponds. Review of background information showed that some ponds exceed 20+ years of service and require maintenance work.

Culverts and Ditches

There is approximately 350 km of road-side drainage ditches and 1458 culverts that convey stormwater in the Township. These assets must be further inspected to properly assess the condition and function.

Storm Sewers

Approximately 100 km of storm sewers are located in the Township to convey stormwater runoff. These sewers must be further inspected using CCTV to properly assess the condition and function.

Township of King:

Current Stormwater Issues

The increase in impermeable area due to urbanization leads to increased surface runoff during storm events. This can lead to numerous issues such as...

Flooding

As stormwater infrastructure ages, the functional capabilities are reduced. This can cause problems in the surrounding areas such as flooding when the infrastructure is unable to handle intense storms. Heavy floods can potentially damage properties and be harmful to residents.



Flooding in Nobleton during a heavy rain storm

Erosion

Erosion occurs when natural forces like water, wind and ice transport rocks and soils in areas such as channels. Erosion can degrade natural landscapes and cause damage to aquatic habitats. Erosion also causes heavy sediment loads in the water course leading to contaminants entering the watercourse.



Channel Erosion identified during inspection of natural channels

On June 24th , 2019 the Township of King declared a state of Climate Emergency!

Township of King: Moving Forward...

Problem/Opportunity Statement

*“King Township believes that to support the **growth of vibrant communities** and **enhance the quality of life for its residents**, accommodations must be made to provide the adequate controls for the anticipated stormwater needs generated by planned development in an **efficient, effective, safe and sustainable matter.**”*

The proposed alternatives for managing stormwater will be evaluated based on...



Feasibility



Constructability



Impact on Environment



Benefit to Residents

Township of King: Stormwater Improvement Alternatives

Three improvement alternatives are proposed for evaluation:

Alternative 1:

Traditional SWM Techniques

This option considers maintaining the current traditional stormwater management systems, consisting of conventional storm sewers and stormwater management ponds to provide water quality treatment as well as flood and erosion protection. Existing stormwater ponds will be retrofitted to meet stormwater requirements. Stormwater ponds inspected as a part of this project are shown.



STOP_0005 in Schomberg



NTPO_0001 in Nobleton



STPO_0003 in Schomberg



NTPO_0005 A & B in Nobleton



Township of King: Stormwater Improvement Alternatives

Three improvement alternatives are proposed for evaluation:

Alternative 2:

Low Impact Developments (LID)

LIDs naturally promote the infiltration of runoff. They can be implemented in existing or newly developed areas to provide additional control for stormwater.

Their application can be categorized into 4 Methods:

1. Source Control Methods
2. Conveyance Control Methods
3. End-of-Pipe Control Methods
4. Pollution Prevention Methods

Source Control Methods

These methods involve treating runoff at the source such as homes and commercial areas. Examples of source control methods that homeowners can implement are downspout disconnections, rain gardens and rainwater harvesting.



Other source control methods include:



Permeable Pavement



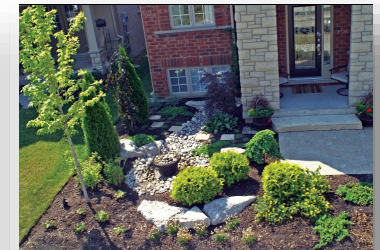
Grassed/Bio Swale



Downspout Disconnection



Rainwater Harvesting



Rain Garden



Green Roof (Left)

Township of King: Stormwater Improvement Alternatives

Alternative 2: Low Impact Development (LID) Continued

Conveyance Control Methods

LID conveyance control methods promote infiltration to reduce surface runoff. These measures are typically located within the road right-of-way. This can include methods such as grassed channels, bioswales and underground perforated pipe systems.

"Conveyance" simply refers to controls that receive and transport runoff to an end-of-pipe facility.



Grassed Channel

End-Of-Pipe Control Methods

This measure investigates opportunities for constructing new end-of-pipe treatment systems. This could include the construction of wet ponds, wetlands, dry ponds, filters, infiltration basins and oil/grit separators.

"End-of-pipe" simply refers to facilities that receive runoff from conveyance controls



Oil and Grit Separator



Infiltration Basin

Pollution Prevention Methods

These are measures that are put into place with the intent to improve operation and maintenance of public and privately owned lands, to reduce pollution generation. This could include road salt management programs, street sweeping and storm sewer cleaning programs.

Township of King: Stormwater Improvement Alternatives

Three improvement alternatives are proposed for evaluation:

Alternative 3: Combining Traditional and LID Measures

This alternative considers constructing new traditional stormwater measures and combining them with new LID features to provide additional stormwater run off control in areas that have no controls or are underserved. This would include solutions such as constructing new stormwater ponds and LIDs such as grassed channels upstream or downstream of the facility.

Example:



Traditional Stormwater Pond



**Grassed Swale located upstream of
the facility**



FEEDBACK



The Township of King wants to hear from you!

We appreciate your participation in today's session! As residents of the Township of King, your feed back is crucial to successfully managing stormwater in the Township.

Let us know if you have had any issues related to stormwater management or any other concerns that you may have. Please complete a comment sheet by December 11th which can be found at: speaking.king.ca/stormwater-master-plan

The comment sheet can be completed as a form in the "Comment Sheet" toolbar; or download from the "Documents" widget to be filled out and returned through email here: KingStormwaterMasterPlan@civi.ca

Documents

-  PIC 1 Virtual Comments Sheet (46.8 KB) (docx)
-  Notice of Project Commencement (28.3 KB) (pdf)



King Township is looking for public feedback on its draft Stormwater Master Plan (SMP). A review and analysis of King's stormwater infrastructure is now underway. This will result in the development of a comprehensive Stormwater Master Plan to support the Township growth scenarios as outlined in the new Official Plan.

This master plan will provide analysis to ensure that the required level of service to handle the anticipated growth can be provided throughout the Township. A Municipal Class Environmental Assessment has been undertaken to guide this process.

FEEDBACK NEWS FEED QUESTIONS COMMENT SHEET

Comment sheet

[Complete Form](#)

Planning



Coordination



Implementation



SUCCESS!



TOWNSHIP OF KING
Comprehensive Stormwater Management Master Plan

Public Information Centre #1
Friday November 27, 2020; 12:00pm – 2:00pm
Webex Virtual Meeting

COMMENTS SHEET

First Name: _____ **Last Name:** _____

Representing (Agency, Property Owner, Tenant, etc.): _____

Mailing Address: _____

Phone No: _____ **Email:** _____

SURVEY

What do you believe are the most critical stormwater issues in the Township of King (e.g. flood protection, erosion control, operations and maintenance, pollution prevention, minimizing environmental impacts, etc.)?

Have you observed signs of degraded water quality in streams and creeks in the Township of King?

☐ Yes

☐ No

Have you witnessed or experienced a flood:

☐ On your property?

☐ In your neighbourhood?

☐ In other parts of the Township?

Please Describe the flood:

General Location: _____

Creek/River Overtopping: _____

Culver/Bridge/Sewer Back up: _____

Roadway Ponding: _____

Other: _____

Do you feel that the preliminary alternatives presented for this study will address concerns that you have regarding stormwater management in the Township of King?

☐ Yes

☐ No

If no, please explain: _____

Information will be collected in accordance with the Freedom of Information and Protection of Privacy Act. With the exception of personal information, all comments received will become part of public record. Thank you for your participation

TOWNSHIP OF KING
Comprehensive Stormwater Management Master Plan

Public Information Centre #1
Friday November 27, 2020; 12:00pm – 2:00pm
Webex Virtual Meeting

COMMENTS SHEET

COMMENTS

Do you have any other comments you would like to provide to the Township of King regarding this project?

THANK YOU FOR YOUR PARTICIPATION!

Survey Responses

09 July 2018 - 24 February 2021

Comment sheet

SPEAKING - Your voice, our community

Project: Comprehensive Stormwater Management Master Plan



| VISITORS | | | | | |
|--------------|------------|-----------|------------|------------|-----------|
| 6 | | | | | |
| CONTRIBUTORS | | | RESPONSES | | |
| 1 | | | 1 | | |
| 1 | 0 | 0 | 1 | 0 | 0 |
| Registered | Unverified | Anonymous | Registered | Unverified | Anonymous |



Respondent No: 1

Responded At: Dec 10, 2020, 18:48:32 pm

Q1. What do you believe are the most critical stormwater issues in the Township of King (e.g. flood protection, erosion control, operations and maintenance, pollution prevention, minimizing environmental impacts, etc.)?

I believe the most critical stormwater management issue for King Township is fully addressing the historical problem of flooding. This problem has been noted in many reports.

Q2. Have you observed signs of degraded water quality in streams and creeks in the Township of King? Yes

Q3. Have you witnessed or experienced a flood: on your property?
(check all that apply) in your neighborhood?
in another location in King Township?

Q4. If you have witnessed a flood please describe it below. Include the general location and whether it was one of the following:1. Creek/River Overtopping2. Culvert/Bridge/Sewer Back up3. Roadway Ponding4. Other

I live on 21 Lynwood Cres. in Nobleton. My property is located on a floodplain between Lynwood and Elizabeth. The properties located in this area have experienced regular flooding. This is especially true when the culvert below King Rd. is not cleaned.

Q5. Do you feel that the preliminary alternatives presented for this study will address concerns that you have regarding stormwater management in the Township of King? No

Q6. If you answered no to question 5, please explain your response.

No, I believe that the "alternatives" presented will not address issues for properties that are located on floodplains, watercourse or close to redevelopment areas. A "comprehensive" plan MUST assess all drainage areas and analyze culvert/watercourse capacity.

PIC#2

| PIC # 2 |
|---------------------|
| Number of Attendees |
| 18 |

WELCOME!

Township of King Comprehensive Stormwater Management Master Plan Public Information Centre # 2



WHAT IS THE TOWNSHIP OF KING STORMWATER MANAGEMENT MASTER PLAN?

A Comprehensive Stormwater Management Master Plan (CSWM-MP) will serve as a tool to...

- ➔ Facilitate the protection and restoration of natural watershed functions
- ➔ Protect surface/groundwater systems
- ➔ Facilitate maintenance of stormwater infrastructure
- ➔ Implement stormwater regulations for new and redevelopment areas
- ➔ Promote run off reduction and improve water quality, quantity, and water balance
- ➔ Provide stormwater education and assistance to the community

Public Information Centre #1 RECAP

At PIC#1 We Discussed...

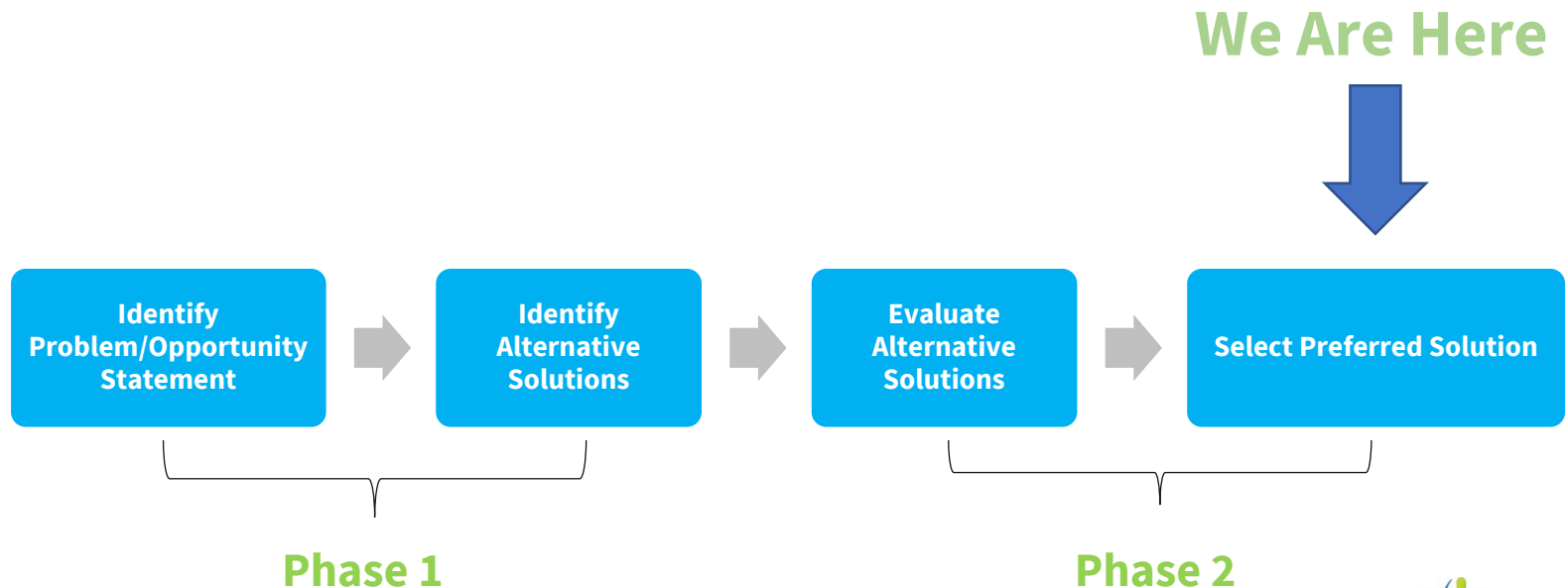
- What is the Township of King Stormwater Management Master Plan
- Objectives of the CSWM-MP
- The Municipal Class Environmental Assessment (EA) Process
- Township of King: Existing Storm Infrastructure, Future Growth & Current Stormwater Issues
- Problem/Opportunity Statement

*“King Township believes that to support the **growth of vibrant communities** and **enhance the quality of life for its residents**, accommodations must be made to provide the adequate controls for the anticipated stormwater needs generated by planned development in an **efficient, effective, safe and sustainable matter.**”*
- Township of King: Stormwater Improvement Alternatives

WHAT IS THE TOWNSHIP OF KING STORMWATER MANAGEMENT MASTER PLAN?

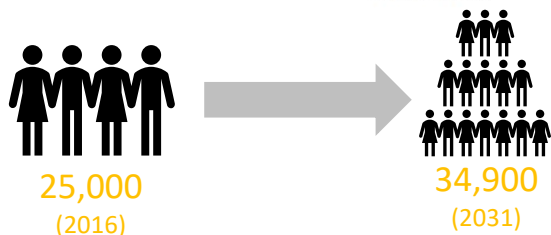
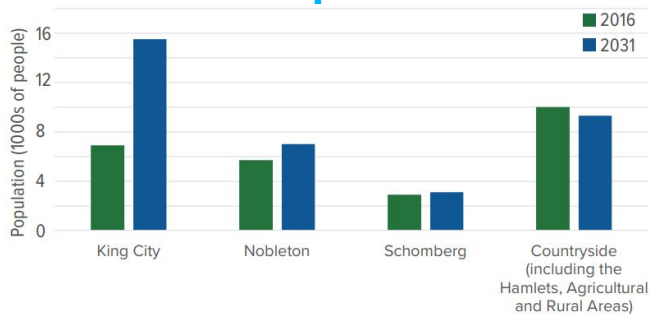
The Municipal Class Environmental Assessment (EA) Process

- The CSWM-MP follows approach 1 of the Municipal Class EA process and is completed in two (2) phases



Township of King: Existing Conditions

Township Growth



This projected growth in Township population will be accommodated by the construction of various residential and commercial developments in the villages of King City, Nobleton and Schomberg.

Currently, stormwater runoff is controlled in the Township using...



Culverts



SWM Ponds



Drainage Ditches



Storm Sewers

Existing Stormwater Infrastructure Condition

Stormwater Ponds

The Township currently owns and operates 28 stormwater management ponds. Review of background information showed that some ponds exceed 20+ years of service and require maintenance work.

Culverts and Ditches

There is approximately 350 km of road-side drainage ditches and 1458 culverts that convey stormwater in the Township. These assets must be further inspected to properly assess the condition and function.

Storm Sewers

Approximately 100 km of storm sewers are located in the Township to convey stormwater runoff. These sewers must be further inspected using CCTV to properly assess the condition and function.

Township of King: Stormwater Improvement Alternatives

Three improvement alternatives are proposed for evaluation:

Alternative 1:

Traditional SWM Techniques

Maintain the current traditional stormwater management systems, consisting of conventional storm sewers and stormwater management ponds to provide water quality treatment as well as flood and erosion protection. Existing stormwater ponds will be retrofitted to meet stormwater requirements. Stormwater ponds inspected as a part of this project are shown.



STOP_0005 in Schomberg



NTPO_0001 in Nobleton

Alternative 2:

Low Impact Developments (LID)

LIDs naturally promote the infiltration of runoff. They can be implemented in existing or newly developed areas to provide additional control for stormwater.

Their application can be categorized into 4 Methods:

1. Source Control Methods
2. Conveyance Control Methods
3. End-of-Pipe Control Methods
4. Pollution Prevention Methods



Grassed/Bio Swale

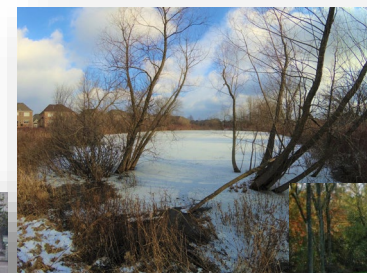


Permeable Pavement

Alternative 3:

Combining Traditional and LID Measures

This alternative considers constructing new traditional stormwater measures and combining them with new LID features to provide additional stormwater run off control in areas that have no controls or are underserved. This would include solutions such as constructing new stormwater ponds and LIDs such as grassed channels upstream or downstream of the facility.



Traditional Stormwater Pond



Grassed Swale located upstream of the facility

Township of King: Stormwater Improvement Preferred Solution

Alternative 3 – Combining Traditional and LID Measures

















Alternative 3: Combining Traditional and LID Measures



Traditional Stormwater Pond



Grassed Swale located upstream of
the facility

| |  Feasibility |  Constructability |  Impact on Environment |  Benefit to Residents |
|---|--|---|--|---|
| Alternative 1: Do Nothing/Traditional SWM Techniques |  |  |  |  |
| Alternative 2: Low Impact Developments (LID) |  |  |  |  |
| Alternative 3: Combining Traditional and LID Measures |  |  |  |  |

Township of King: Stormwater Improvement Preferred Solution

Alternative 3 – Combining Traditional SWM and LID Measures

Alternative 3: Combining Traditional and LID Measures

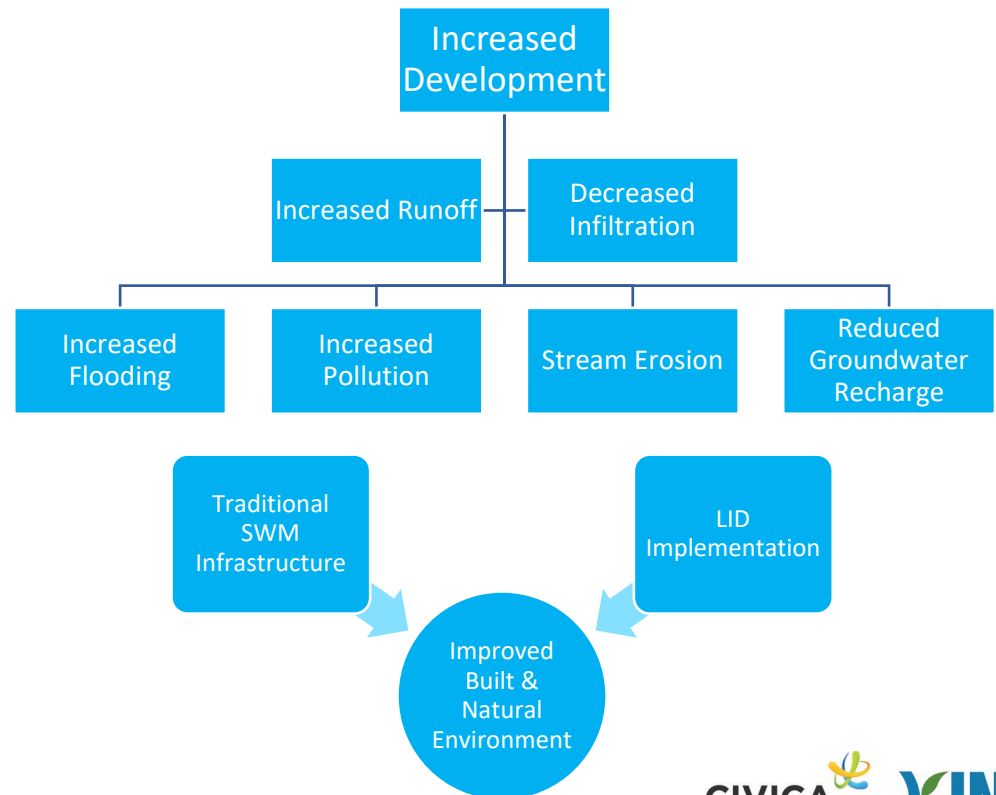


Traditional Stormwater Pond



Grassed Swale located upstream of
the facility

**WHY Stormwater
Management Master
Planning??**



Township of King: Addressing Stormwater Issues

The increase in impermeable area due to urbanization leads to increased surface runoff and peak flows during storm events causing erosion.

Erosion Control

Alternative 3: Combining Traditional and LID Measures

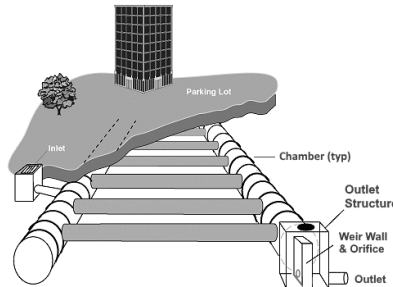
Combining Traditional SWM and LIDs meets conveyance targets and reduces peak flows to protect channels from erosion.



Channel Erosion identified during inspection of natural channels



Traditional
Stormwater Pond



Grassed Swale located upstream of
the facility



Peak Flow Reduction

Township of King: Addressing Stormwater Issues

The increase in impermeable area due to urbanization leads to increased surface runoff volume during storm events causing flooding.

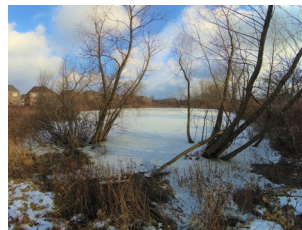
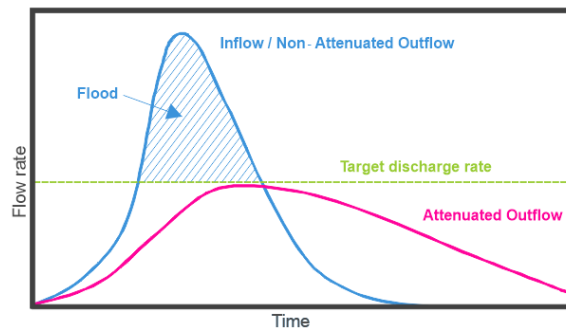
Flooding/Water Quantity

Alternative 3: Combining Traditional and LID Measures

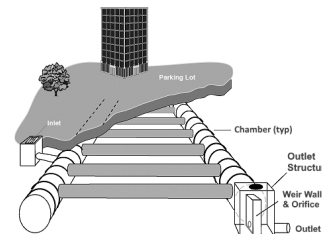
Combining Traditional SWM and LIDs meets runoff volume control targets and effectively provides relief to downstream culverts experiencing conveyance issues



Flooding in Nobleton during a heavy rain storm



**Traditional
Stormwater Pond**



Underground Storage Unit



Flooding Relief

Township of King: Addressing Stormwater Issues

The increase in impermeable area due to urbanization leads to increased surface runoff and pollutants during storm events.

Pollution/Water Quality

Alternative 3: Combining Traditional and LID Measures

Combining Traditional SWM and LIDs meets necessary targets and a dual treatment system keeps operation continuing longer between maintenance periods.



Lake Simcoe Algae Concerns



High TSS In SWM Facility



Traditional
Stormwater Pond



Grassed Swale located upstream of
the facility



High Water Quality



Township of King: Addressing Stormwater Issues

The increase in impermeable area due to urbanization leads to increased surface runoff and decreased groundwater recharge.

Water Balance

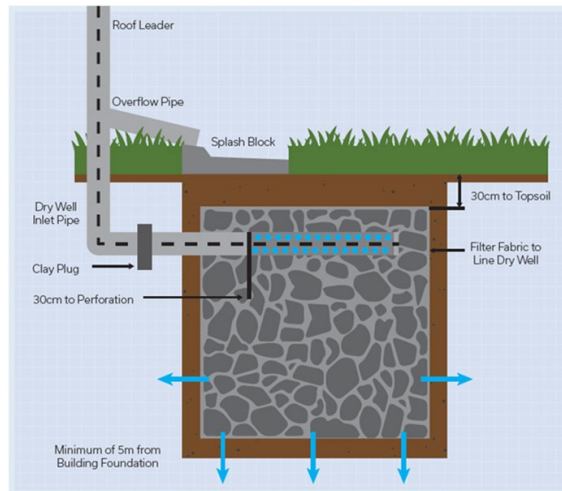
Alternative 3: Combining Traditional and LID Measures

Combining Traditional SWM and LIDs allows LIDs to provide groundwater recharge as necessary and remaining overland flow can be treated downstream at a Traditional SWM facility.

Low impact development filters, stores and returns rainwater to the ground.

- Mimics nature
- Cost effective
- Reduces localized flooding
- Less stress on traditional stormwater infrastructure

permeable pavers
aggregate
engineered soil
earth



Soakaway Pit

Water Balance



Permeable Pavement

Township of King: SWM Control Criteria Implementations

Future developments and Traditional SWM facilities will be required to meet the following design criteria before releasing stormwater runoff to satisfy the recommended approach

| | Water Quantity | Erosion Control | Water Quality | Water Balance |
|--|---|--|---|--|
| Future Developments | <ul style="list-style-type: none"> On-site storage Control flows to pre-development value | <ul style="list-style-type: none"> On-site: 5mm retention | <ul style="list-style-type: none"> MOECC Enhanced Level of Protection (80% TSS & TP Removal) | <ul style="list-style-type: none"> Match pre-development infiltration volumes |
| Traditional SWM Facilities Retrofits and LIDs | <ul style="list-style-type: none"> LSRCA - 40m³/ha storage TRCA – Volume control to meet Humber River Watershed Unit Flow Relationship | <ul style="list-style-type: none"> 25mm retention for 24-48 hours | <ul style="list-style-type: none"> MOECC Enhanced Level of Protection (80% TSS & TP Removal) | <ul style="list-style-type: none"> Provided by Upstream LIDs |



Township of King:

SWM Control Criteria Implementation Planning

An implementation plan determines how the components of the overall recommended approach will be carried out. The table below identifies responsibility, scheduling, potential funding, and policies required for implementation.

| | Construction & Funding | Construction Scheduling | Maintenance | Public Agency Input | Relevant Guidelines and Policies | Other Servicing Plan Adjustments |
|---|--|---|--|---|--|---|
| Future Developments – Lot Level Controls | Developers: <ul style="list-style-type: none"> Constructing and funding on-site controls to meet SWM design criteria Township: <ul style="list-style-type: none"> Inspect SWM controls before connecting to municipal infrastructure | Developers: <ul style="list-style-type: none"> Prior to or during construction | Developers: <ul style="list-style-type: none"> Operate & maintain on-site SWM controls Complete annual inspection reports Township: <ul style="list-style-type: none"> Oversee level of service is maintained | <ul style="list-style-type: none"> TRCA LSRCA Region | <ul style="list-style-type: none"> LSPP Stormwater Management Planning and Design Manual Ontario Development Permit System | <ul style="list-style-type: none"> Site By-Laws LID Operation & Maintenance Manual |
| Traditional SWM Facilities - Proposed & Retrofit Opportunities | Developers: <ul style="list-style-type: none"> Construct & fund new SWM facilities Upgrade existing facilities & infrastructure downstream of development Township: <ul style="list-style-type: none"> Fund improvements to inadequate existing SWM facilities. | Developers: <ul style="list-style-type: none"> Prior to or during construction Township: <ul style="list-style-type: none"> Time of Facility cleanout Safety / Emergency | Developers: <ul style="list-style-type: none"> Maintenance period before land acquisition Township: <ul style="list-style-type: none"> Add SWM facilities to the Asset Management Plan after land acquisition | <ul style="list-style-type: none"> TRCA LSRCA MNRF MECP | <ul style="list-style-type: none"> LSPP Stormwater Management Guidelines, 2003 Stormwater Management Planning and Design Manual | <ul style="list-style-type: none"> Asset Management Plan Salt Management Plan Climate Change Action Plan |



Township of King: SWM Control Inspection & Maintenance Plan

Stormwater Management Practices Lake Simcoe Protection Plan

- Every owner and operator of a new stormwater management works shall be required to inspect and maintain the works on a periodic basis.
- Every owner and operator of a new priority stormwater management works shall be required to monitor the operation of works, including monitoring the quality of the effluent from the works, on a periodic basis.

TRCA LID Stormwater Management Guide

Compliance Monitoring

- Monitoring of new facilities is the responsibility of the developer to demonstrate that requirements of the facility have been met.

Sustainable Technology Evaluation Program (STEP)

- Salt Application Best Practices
- Low Impact Development Inspection and Maintenance Guide, 2016

Township of King:

SWM Control Inspection & Maintenance Plan

Typical Stormwater Management Maintenance Activities

| Item No. | Operation or Maintenance Activity | Frequency | Type of Stormwater Management Practice | | | | | | | | | | | |
|----------|--|------------------------------|--|---------|----------|--------------------|---------------------|--------------|-------------------|---------|--------------------|--------------|---------------|----------------|
| | | | Wet Pond | Wetland | Dry Pond | Infiltration Basin | Infiltration Trench | Filter Strip | Superpipe Storage | Filters | Oil/Grit Separator | Soakaway Pit | Pervious Pipe | Grassed Swales |
| 1 | Inspection | Annually & After Rain Event | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 2 | Grass cutting | Weekly/Bi-Weekly | □ | □ | ■ | ■ | ■ | | | ■ | | | | ■ |
| 3 | Weed Control | Bi-Weekly | ■ | ■ | ■ | ■ | | ■ | | □ | | | | ■ |
| 4 | Upland vegetation replanting | Annually | □ | □ | □ | □ | □ | □ | | □ | | | | |
| 5 | Shoreline Fringe and Flood Fringe vegetation replanting | Facility Cleanout | □ | □ | | | | | | | | | | |
| 6 | Aquatic vegetation replanting | Facility Cleanout | □ | □ | | | | | | | | | | |
| 7 | Removal of accumulated sediments | Facility Cleanout (~5 years) | ■ | ■ | ■ | ■ | ■ | ■ | | ■ | ■ | | ■ | ■ |
| 8 | Outlet valve adjustment | Facility Cleanout | □ | □ | □ | | | | | | | | | |
| 9 | Roof leader filter cleaning/replacement | Annually & After Rain Event | | | | | | | | | | ■ | | |
| 10 | Pervious pipe flushing | Annually/Bi-Annually | | | | | | | | | | | ■ | |
| 11 | Oil/Grit separator or Catchbasin cleaning | Annually | | | | | | | | | ■ | | ■ | |
| 12 | Closing of infiltration facility inlet for winter months | Annually | | | | ■ | ■ | | | ■ | | | ■ | |
| 13 | Trash removal | Monthly | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 14 | Infiltration basin floor tilling | Facility Cleanout | | | | ■ | | | | | | | | |

■

Normally Required

□

May be Required

Township of King:

SWM Control Inspection & Maintenance Plan

Stormwater Management Maintenance Practices

- Implement inspection frequency requirements for approved LIDs & SWM facilities on private developments
- Inspections required after heavy rainfalls
- Summarizes LID & SWM Facility maintenance requirements
- Identify typical maintenance costs
- Verify implemented SWM features are maintained throughout the intended life
- Stormwater management work owners to provide annual inspection report results
- Provide annual reporting of progress made in implementing the recommended approach across the Township
- Implement Winter Salt Program

SUMMARY

With any good Stormwater Management Master Plan to be successful the implementation of the preferred solution and successive maintenance can help address flooding, water quality issues, groundwater recharge, and stream erosion.

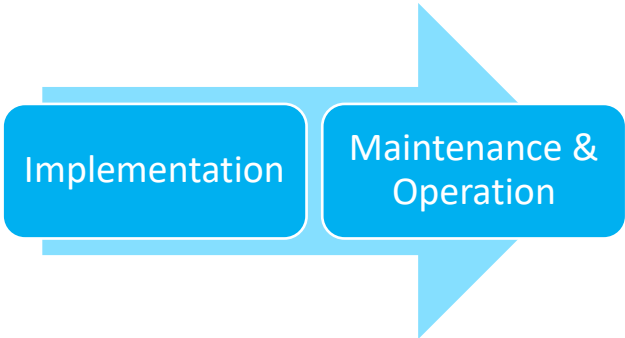
Alternative 3:
Combining Traditional and LID Measures



Traditional Stormwater Pond



Grassed Swale located upstream of the facility



Next Steps

- Complete Class Environmental Assessments for new facilities and retrofit sites
- Implement recommended approach for construction of new facilities and retrofit sites
- Develop policy for the construction, maintenance & operation of LIDs on private developments



FEEDBACK


The Township of King wants to hear from you!


We appreciate your participation in today's session! As residents of the Township of King, your feed back is crucial to successfully managing stormwater in the Township.


Let us know if you have had any issues related to stormwater management or any other concerns that you may have. Please complete a comment sheet by April 15th which can be found at: speaking.king.ca/stormwater-master-plan

The comment sheet can be completed as a form in the "Comment Sheet" toolbar; or download from the "Documents" widget to be filled out and returned through email here: KingStormwaterMasterPlan@civi.ca

Documents

 PIC 1 Virtual Comments Sheet (46.8 KB)
(docx)

 Notice of Project Commencement (28.3 KB)
(pdf)



King Township is looking for public feedback on its draft Stormwater Master Plan (SMP). A review and analysis of King's stormwater infrastructure is now underway. This will result in the development of a comprehensive Stormwater Master Plan to support the Township growth scenarios as outlined in the new Official Plan.

This master plan will provide analysis to ensure that the required level of service to handle the anticipated growth can be provided throughout the Township. A Municipal Class Environmental Assessment has been undertaken to guide this process.

FEEDBACK

NEWS FEED

QUESTIONS

COMMENT SHEET

Comment sheet

Complete Form





TOWNSHIP OF KING
Comprehensive Stormwater Management Master Plan

Public Information Centre #2
Thursday April 1, 2021; 12:00pm – 2:30pm
Webex Virtual Meeting



COMMENT SHEET

First Name: _____ Last Name: _____

Representing (Agency, Property Owner, Tenant, etc.): _____

Mailing Address: _____

Phone No: _____ Email: _____

SURVEY

Problem/Opportunity Statement: Due to existing SWM deficiencies and an increase of development in the Township, the existing stormwater infrastructure is inadequate for satisfying SWM criteria. The opportunity arises to develop a comprehensive strategy to establish measures for improving stormwater quality and quantity management.

Does the problem/opportunity statement of the Stormwater Master Plan reflect all critical stormwater issues in the Township (e.g. flood protection, erosion control, operations and maintenance, pollution prevention, minimizing environmental impacts, etc.)?

☐ Yes

☐ No

If no, what stormwater issues in the Township are not being addressed?

Recommended Approach: Combining Traditional SWM and LID Measures.

Do you feel that the recommended approach presented for this study will address all stormwater management problems and opportunities in the Township of King?

☐ Yes

☐ No

If no, please explain:

Do you feel that the implementation plan for the recommended approach presented for this study addresses all stormwater issues in the Township of King?

☐ Yes

☐ No

MUNICIPAL FREEDOM OF INFORMATION & PROTECTION OF PRIVACY ACT

Comments and information regarding this project are being collected in accordance with the Municipal Freedom of Information and Protection of Privacy Act for the purpose of meeting environmental assessment requirements. With the exception of personal information, all comments received will become part of the public record.



TOWNSHIP OF KING
Comprehensive Stormwater Management Master Plan

Public Information Centre #2
Thursday April 1, 2021; 12:00pm – 2:30pm
Webex Virtual Meeting



COMMENT SHEET

If no, please describe specific issues of concern in the Township:

Have you observed stormwater infrastructure which requires operations & maintenance in the Township of King?

- ☐ Yes
☐ No

If yes, please explain:

Do you feel that the program for inspection & maintenance developed for this study will address all stormwater management in the Township of King?

- ☐ Yes
☐ No

If no, please explain:

COMMENTS

Do you have any other comments you would like to provide to the Township of King regarding this project?

Please submit this comment sheet by April 15, 2021 to kingstormwatermasterplan@civi.ca

MUNICIPAL FREEDOM OF INFORMATION & PROTECTION OF PRIVACY ACT

Comments and information regarding this project are being collected in accordance with the Municipal Freedom of Information and Protection of Privacy Act for the purpose of meeting environmental assessment requirements. With the exception of personal information, all comments received will become part of the public record.



TOWNSHIP OF KING
Comprehensive Stormwater Management Master Plan

Public Information Centre #2
Thursday April 1, 2021; 12:00pm – 2:30pm
Webex Virtual Meeting



COMMENT SHEET

THANK YOU FOR YOUR PARTICIPATION!

MUNICIPAL FREEDOM OF INFORMATION & PROTECTION OF PRIVACY ACT

Comments and information regarding this project are being collected in accordance with the Municipal Freedom of Information and Protection of Privacy Act for the purpose of meeting environmental assessment requirements. With the exception of personal information, all comments received will become part of the public record.

No comment sheets were submitted by attendees or the general public after PIC#2

Notice of Completion



**TOWNSHIP OF KING
CLASS ENVIRONMENTAL ASSESSMENT
COMPREHENSIVE STORMWATER MANAGEMENT MASTER PLAN
NOTICE OF COMPLETION**

The Township of King has completed a Comprehensive Stormwater Management Master Plan (CSWMMP) to support growth scenarios outlined in the Township's 2019 Official Plan (OP), and to ensure the required level-of-service can be provided throughout the Township. The study area includes the Villages of King City, Nobleton, and Schomberg, as well as the Hamlets of Ansnorveldt, Snowball, Lloydtown, Laskay, Kettleby, Pottageville, and Graham Sideroad.

This CSWMMP characterized existing and future hydrologic conditions using the proposed future development identified in the OP. The preferred Storm Water Management (SWM) strategy is to combine traditional SWM and Low Impact Development (LID) measures to effectively and efficiently address concerns created from stormwater runoff.

The Study followed Phases 1 and 2 of the Municipal Class Environmental Assessment (EA) process dated October 2000 (as amended 2007, 2011, and 2015), which is to be used as foundational support for future investigations of specific schedule B and C projects. The Master Plan process included consultation with the general public, stakeholders, and government review agencies, as well as two Public Information Centres held in November 2020 and April 2021.

The CSWMMP is available for review at the King Township Municipal Office by appointment and is available online at: <https://speaking.king.ca/stormwater-master-plan>.

Please contact Daniel Wilkinson at dwilkinson@king.ca or (905) 833-5321 x 6572 to schedule an appointment.

Interested persons may provide written comment by completing the comment sheet also found on the project webpage noted above and submit by August 14, 2021 to kingstormwatermasterplan@civi.ca.

Notice issued on **July 08, 2021**.

Public Works
Township of King
2585 King Road
King City, ON, L7B 1A1
Email: dwilkinson@king.ca
Tel: (905) 833-5321 x 6572

Daniel Wilkinson, C.E.T
Environmental Project Manager

List of Contacted Review Agencies

| Review Agencies | Stakeholder Status | Notes |
|---|---------------------------|---|
| Ministry of Environment Conservation and Parks (MECP) | Requesting Participation | Future engagement as required for any subsequent Sched. B or C EA requirements from Master Plan Recommendations |
| Region of York | Requesting Participation | Future engagement as required for any subsequent Sched. B or C EA requirements from Master Plan Recommendations |
| Other adjacent municipalities- Peel Region, Simcoe County, Town of Newmarket, Town of Aurora, City of Vaughan | Not Included at this time | Future engagement as required for any subsequent Sched. B or C EA requirements from Master Plan Recommendations |
| Toronto Region Conservation Authority (TRCA) | Requesting Participation | Future engagement as required for any subsequent Sched. B or C EA requirements from Master Plan Recommendations |
| Lake Simcoe Region Conservation Authority (LSRCA) | Requesting Participation | Future engagement as required for any subsequent Sched. B or C EA requirements from Master Plan Recommendations |
| Ministry of Municipal Affairs and Housing (MMAH) | Not Included at this time | Future engagement as required for any subsequent Sched. B or C EA requirements from Master Plan Recommendations |
| Ministry of Northern Development, Mines, Natural Resources and Forestry (MNDMNR) | Not Included at this time | Future engagement as required for any subsequent Sched. B or C EA requirements from Master Plan Recommendations |
| Department of Fisheries and Oceans (DFO) | Not included at this time | Future engagement as required for any subsequent Sched. B or C EA requirements from Master Plan Recommendations |

Indigenous Community Contact List

| Indigenous Community | Contact Details |
|--|--|
| Williams Treaties First Nation | Email: communications@williamstreatiesfirstnations.ca ; k.a.sandy-mckenzie@rogers.com |
| Hiawatha First Nations | 123 Paudash Street Hiawatha, Ontario K9J 0E6 Canada Tel: (705) 295-4421 Email: info@hiawathafn.ca ; Ffnadministrator@hiawathafn.ca |
| Curve Lake First Nation | 22 Winookeedaa Road, Curve Lake, ON K0L 1R0 P: 705.657.8045 ext. 209 F: 705.657.8708 Email: Communication@curvelake.ca ; BrandonJ@curvelake.ca |
| Alderville First Nation | 11696 Second Line Rd Alderville, ON K0K 2X0 905-352-2011 905-352-3242 (General Fax) Email: dmowat@alderville.ca ; wmarsden@alderville.ca ; jbmarsden@aldervillefirstnation.ca |
| Mississauga's of Scugog Island First Nation | Mississauga's of Scugog Island First NationAdministration Building 22521 Island Road Port Perry, ON L9L 1B6 905-985-3337 Email: info@scugogfirstnation.com ; Consultation@scugogfirstnation.com ; Msanford@scugogfirstnation.com |
| Chippewas of Georgina Island | R.R.#2 Box N-13 Sutton West, Ontario L0E 1R0 P: 705-437-1337 F: 705-437-4597 Email: janice.taylor@georginaisland.com |
| Chippewas of Rama First Nation (Chippewas of Mnjikaning) | 5884 Rama Road, Suite 200, Rama ON, L3V 6H6 Phone: (705) 325-3611 Toll-free: 1-866-854-2121 Fax: (705) 325-0879 Email: dans@ramafirstnation.ca ; admin@ramafirstnation.ca ; samanthac@ramafirstnation.ca |
| Beausoleil First Nation | 11 O'Gema Miikaan Christian Island, ON L9M 0A9 Tel: (705) 247-2051 Fax: (705) 247-2239 Email: info@chimnissing.ca ; ajamieson@chimnissing.ca |

| | |
|--|---|
| Huron-Wendat Nation (only if there are archaeological impacts) | 255, place Chef Michel Laveau Wendake (Québec) G0A 4V0 Téléphone : 418-843-3767 Ligne sans frais : 1 (877) 712-3767 Télécopieur: 418-842-1108 Email: administration@cnhw.qc.ca; jeanne.bolduc@cnhw.qc.ca; mario.groslouis@cnhw.qc.ca |
| Metis Nation of Ontario Lands, Resources and Consultation Office | Suite 1100 – 66 Slater Street Ottawa, ON K1P 5H1 Suite 1100 – 66 Slater Street Phone: 613-798-1488 Toll Free Phone: 1-800-263-4889 Email: consultations@metisnation.org ; info@metisnation.org; Tedc@metisnation.org |
| MNO Region 7 Councillor David Dusome | Suite 1100 – 66 Slater Street Ottawa, ON K1P 5H1 Phone: 613-798-1488 Toll Free Phone: 1-800-263-4889 Email: info@metisnation.org |

Correspondence & Comments

MASTER PLAN REVIEW PERIOD

COMMENT SHEET

First Name: _____ **Last Name:** _____

Representing (Agency, Property Owner, Tenant, etc.): _____

Mailing Address: _____

Phone No:_____ **Email:**_____

COMMENTS

Do you have any other comments you would like to provide to the Township of King regarding this project?

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are approximately 20 lines visible. The paper has a slight shadow on the right side, suggesting it's resting on a surface.

Please submit this comment sheet by August 14, 2021 to kingstormwatermasterplan@civi.ca

THANK YOU FOR YOUR PARTICIPATION!

MUNICIPAL FREEDOM OF INFORMATION & PROTECTION OF PRIVACY ACT

Comments and information regarding this project are being collected in accordance with the Municipal Freedom of Information and Protection of Privacy Act for the purpose of meeting environmental assessment requirements. With the exception of personal information, all comments received will become part of the public record.

MASTER PLAN REVIEW PERIOD

COMMENT SHEET

First Name:_____ **Last Name:** _____

Representing (Agency, Property Owner, Tenant, etc.): _____

Mailing Address:

Phone No:_____ **Email:**_____

COMMENTS

Do you have any other comments you would like to provide to the Township of King regarding this project?

[illegible]

Please submit this comment sheet by August 14, 2021 to kingstormwatermasterplan@civi.ca

THANK YOU FOR YOUR PARTICIPATION!

MUNICIPAL FREEDOM OF INFORMATION & PROTECTION OF PRIVACY ACT

Comments and information regarding this project are being collected in accordance with the Municipal Freedom of Information and Protection of Privacy Act for the purpose of meeting environmental assessment requirements. With the exception of personal information, all comments received will become part of the public record.

Indigenous Correspondence & Comments

Summary of Indigenous Comments and responses

Notice of completion was sent out to all the indigenous communities on April 20, 2021. Comment sheet was provided for any specific questions or concerns related to the study. Wendake: Nation Huronne-Wendat responded to the Stormwater Master Plan on 13, July 2021 with concerns regarding archaeological studies and fieldwork. Any archaeological studies or fieldwork resulting from the recommendations of the Stormwater Master Plan should be presented to the Nation Huronne-Wendat community for further comment. No other comments or concerns were received from the communities.

Additional efforts were made to reach out to every indigenous community for the review of the Stormwater Master Plan. Follow up phone calls were made to every community on November 2 & 3, 2021 for getting more information on reaching out to specific contacts in order to review the Stormwater Master plan and feedback.

A follow up email was sent out to all the indigenous communities on November 9, 2021 based on the updated contact information generated for each indigenous community. Notice of completion and a draft report copy was also provided for a review and feedback on Stormwater Master plan.

Scugog First Nations community provided some comments on the report on November 10, 2021. A specific comment was made on Section 3.1 “Relevant Policies, Legislation, and Planning Studies” for adding few reference documents that were missing in the report. Addition of Provincial Policy Statement (2020), Fisheries Act, and the Township of King Official Plan specific reference documents was made. Reference documents were further added to the report as a part of final submission. An additional comment on Ecological Restoration was highlighted by the community. A specific concern related to SWM facilities acting as “Ecological traps” was made and should be given high importance in the design and treatment of SWM facilities. A response was provided to the Scugog First Nations community on November 17, 2021 to address this concern. SWM master plan provides and opportunity to look at a broader scale of the project. Detailed design will further take into consideration the exact nature of work. Additionally, incorporation of Low Impact Development (LID’s) techniques will be further prioritized in the detail design work to address these issues.

The Chippewas of Rama First Nation responded to the email on November 17, 2021 and had no comments or concerns on the Stormwater Master Plan. Further appreciation was provided by the community for the unique considerations for the Lake Simcoe watershed which is an important part of the current territory and a special component of the traditional territory.

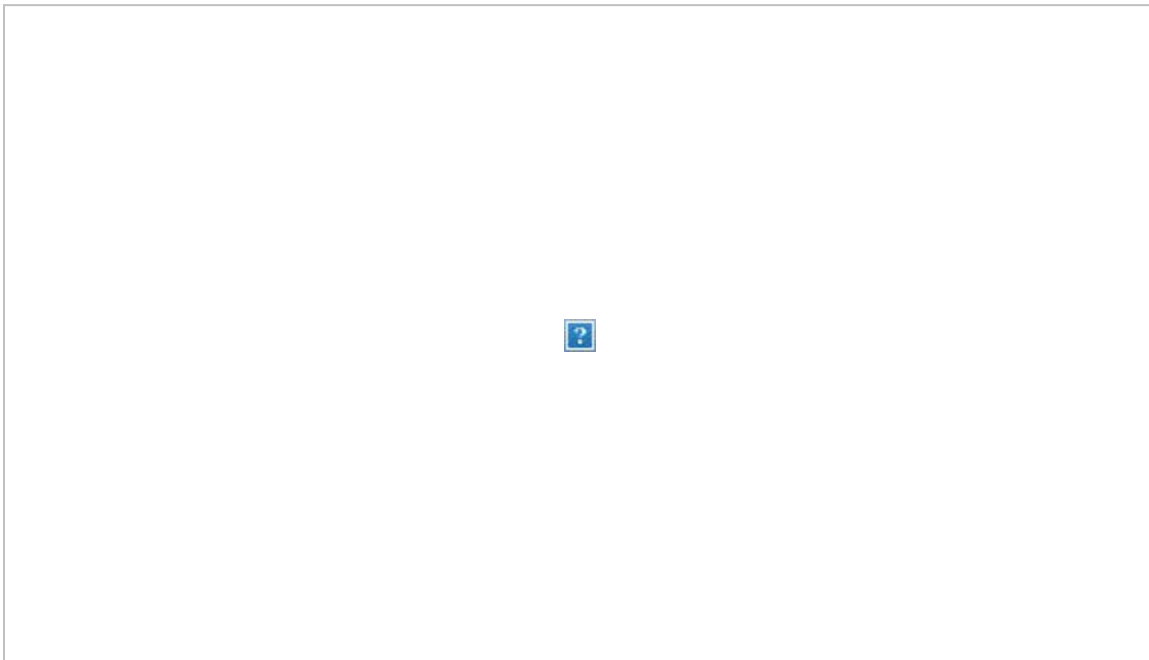
Final follow up phone calls were made, and email were sent out to all communities on November 22, 2021 as a part of final consultation and for providing a final review and feedback on the Stormwater Master Plan. No additional comments or concerns were received from any Indigenous community as a part of final consultation.

From: [lori-jeanne bolduc](#)
To: [King Storm Water Master Plan](#)
Cc: [mario gros-louis](#)
Subject: RE: Township of King Stormwater Master Plan
Date: April 27, 2021 2:45:21 PM
Attachments: [image001.jpg](#)
[image002.jpg](#)
[image003.png](#)

Good afternoon,

Thank you for your answer. We have no comments at this point regarding the Stormwater Master Plan. Please keep us updated about any new project resulting from this report or archaeological studies and fieldwork.

Best regards,



De : King Storm Water Master Plan [mailto:KingStormwaterMasterPlan@civi.ca]

Envoyé : 22 avril 2021 17:02

À : lori-jeanne bolduc <lori-jeanne.bolduc@cnhw.qc.ca>; King Storm Water Master Plan <KingStormwaterMasterPlan@civi.ca>

Cc : mario gros-louis <mario.groslouis@cnhw.qc.ca>

Objet : RE: Township of King Stormwater Master Plan

Hello,

Thanks for your inquiry!

This study will not require any archeological studies or field work. However, projects resulting from

this report will require fieldwork to determine the suitability of the methods presented for managing stormwater runoff on a case by case basis. These will typically follow proposed developments within the Township.

Thanks

From: lori-jeanne bolduc <lori-jeanne.bolduc@cnhw.qc.ca>
Sent: April 22, 2021 4:54 PM
To: King Storm Water Master Plan <KingStormwaterMasterPlan@civi.ca>
Cc: mario gros-louis <mario.groslouis@cnhw.qc.ca>
Subject: TR: Township of King Stormwater Master Plan

Good afternoon,

Thank you for your email. Could you please let us know if any archaeological studies or fieldwork will be necessary as part of this project?

Best regards,



De : King Storm Water Master Plan <KingStormwaterMasterPlan@civi.ca>
Envoyé : 20 avril 2021 16:54
À : Administration <Administration@wendake.ca>
Cc : dwilkinson@king.ca
Objet : Township of King Stormwater Master Plan



Hello!

The Township of King is preparing its Stormwater Master Plan and wants your feedback! Please see the attached notice regarding the Stormwater Master Plan for the Township of King and feel free to follow up with any questions or concerns.

Thank you!

Township of King
905-833-5321

Civica Infrastructure
905-417-9792

| | |
|--|---|
| Description: kinglogo2013  |  |
|--|---|

From: [Lori-Jeanne Bolduc](#)
To: [King Storm Water Master Plan](#)
Cc: [Mario Gros Louis](#)
Subject: TR: Township of King Stormwater Master Plan Notice of Completion
Date: July 13, 2021 11:08:00 AM
Attachments: [image001.jpg](#)
[image002.png](#)
[image004.jpg](#)

Good morning,

Thank you for the update. Please keep us updated about any new project or archaeological studies and fieldwork.

Best regards,

Lori-Jeanne



De : King Storm Water Master Plan <KingStormwaterMasterPlan@civi.ca>

Envoyé : 8 juillet 2021 15:53

À : Administration <Administration@wendake.ca>

Cc : dwilkinson@king.ca

Objet : Township of King Stormwater Master Plan Notice of Completion

Hello!

The Township of King has finalized its Stormwater Master Plan. Please see the attached notice of completion regarding the Stormwater Master Plan for the Township of King and feel free to follow up with any questions or concerns on the attached comment sheet.

Thank you!

Township of King
905-833-5321

Civica Infrastructure
905-417-9792

| | |
|--|---|
| Description: kinglogo2013  |  |
|--|---|

From: King Storm Water Master Plan
Sent: November 17, 2021 3:59 PM
To: Consultation
Cc: msanford@scugogfirstnation.com; Don Richardson
Subject: RE: Township of King Stormwater Master Plan Final Report

Hello,

We really appreciate your efforts in providing valuable comments on the report!

1. Policy Context:

Addition of specific references as per the comment will be addressed in the report.

2. Ecological Restoration:

SWM master plan provides an opportunity to look at a broader scale of the project. Detailed design will further take into consideration the exact nature of work. Additionally, incorporation of Low Impact Development (LIDs) techniques will be further prioritized in the detail design work to address these issues.

Let us know if you have any more questions or comments.

Regards,

Township of King

Civica Infrastructure

905-833-5321

905-505-5080



From: Consultation <consultation@scugogfirstnation.com>
Sent: November 10, 2021 11:22 AM
To: King Storm Water Master Plan <KingStormwaterMasterPlan@civi.ca>
Cc: msanford@scugogfirstnation.com; Don Richardson <don@ibabraiding.com>
Subject: Township of King Stormwater Master Plan Final

Aaniin,

We have received your request for comments on the Township of King Stormwater Master Plan, thank you for reaching out. Comments on this report are as follows:

1. Policy Context

Section 3.1 "Relevant Policies, Legislation, and Planning Studies" is lacking specific references to federal and provincial directives regarding consultation with Indigenous Nations and peoples. Referenced documents should include the *Provincial Policy Statement (2020)*, *Fisheries Act*, and the *Township of King Official Plan*. Can you please confirm if these additions will be addressed?

2. Ecological Restoration

As noted in the report, the SWM Master Plan presents an opportunity for ecological restoration. These opportunities are notable, and specific guidance on naturalised design and connectivity will likely prove helpful. It is also important to note that SWM facilities can act as “ecological traps”, which should be carefully considered in the design and treatment of these facilities. Can you please confirm how these items will be addressed?

Kindly,
Waverly

--

Waverley Birch (she/her)
MES, RPP, MCIP
Regulatory Consultant
705-500-0926

From: Samantha Craig-Curnow <samanthac@ramafirstnation.ca>
Sent: November 17, 2021 4:26 PM
To: King Storm Water Master Plan
Subject: RE: Township of King Stormwater Master Plan

Good Afternoon,

Having reviewed your Report, the Chippewas of Rama First Nation has no comments to provide at this time. We appreciate the opportunity to review the draft plan and look forward to working with you in the future as additional steps are taken to more efficiently and effectively manage storm water in King Township. We appreciate the unique considerations for the Lake Simcoe watershed which is not only an important part of our current territory, but also a special component of our traditional territory.

All the best,

Samantha Craig-Curnow

Associate General Counsel, Legal

Chippewas of Rama First Nation

(ph) 705-325-3611, 1289

(cell) 416-884-1265

(fax) 705-325-0879

(url) www.ramafirstnation.ca

This email is intended only for the named recipient(s) and may contain information that is privileged, confidential and/or exempt from disclosure under applicable law. No waiver of privilege, confidence or otherwise is intended by virtue of communication via the internet. Any unauthorized copying is strictly prohibited. If you have received this e-mail in error, or are not named as a recipient, please immediately notify the sender and destroy all copies of this e-mail.

By submitting your or another individual's personal information to Chippewas of Rama First Nation, its service providers and agents, you agree and confirm your authority from such other individual, to our collection, use and disclosure of such personal information in

accordance with our privacy policy.

 Please consider the environment before printing this e-mail

From: Samantha Craig-Curnow <samanthac@ramafirstnation.ca>
Sent: November 10, 2021 4:51 PM
To: King Storm Water Master Plan <KingStormwaterMasterPlan@civi.ca>
Subject: RE: Township of King Stormwater Master Plan

Aaniin,

Gchi miigwech for your message. Could you please provide access to the report via this email address? (samanthac@ramafirstnation.ca). We will review the document shortly and get back to you as soon as possible.

Sincerely,

Samantha Craig-Curnow

Associate General Counsel, Legal

Chippewas of Rama First Nation

(ph) 705-325-3611,1289

(cell) 416-884-1265

(fax) 705-325-0879

(url) www.ramafirstnation.ca

This email is intended only for the named recipient(s) and may contain information that is privileged, confidential and/or exempt from disclosure under applicable law. No waiver of privilege, confidence or otherwise is intended by virtue of communication via the internet. Any unauthorized copying is strictly prohibited. If you have received this e-mail in error, or are not named as a recipient, please immediately notify the sender and destroy all copies of this e-mail.

By submitting your or another individual's personal information to Chippewas of Rama First Nation, its service providers and agents, you agree and confirm your authority from such other individual, to our collection, use and disclosure of such personal information in accordance with our privacy policy.

 Please consider the environment before printing this e-mail

From: King Storm Water Master Plan <KingStormwaterMasterPlan@civi.ca>
Sent: Tuesday, November 9, 2021 3:10:46 PM
To: chief@ramafirstnation.ca <chief@ramafirstnation.ca>
Subject: Township of King Stormwater Master Plan

Hello!

As part of our stakeholder consultation process for the Township of King Stormwater Management Master Plan, your community was contacted via the following email addresses (admin@ramafirstnation.ca dans@ramafirstnation.ca). In an effort to confirm that your community is aware of this project and has had the opportunity to provide comments, we are asking for a response to this communication that you are satisfied with the notices you have received. Attached is the notice of completion that was previously distributed, and the report and appendices can be accessed through the SharePoint link below. Also, we are here to answer any questions and respond to any comments that you may have on the project prior to finalizing the report and recommendations.

King Storm Water City Master Plan

[06 Final Report](#)

Please note that to access the SharePoint file you will need to login using the email that received this message.

Thank you!

Township of King

Civica Infrastructure

905-833-5321

905-505-5080



Species at Risk Correspondence & Comments

From: [Species at Risk \(MECP\)](#)
To: [Jonathon Kerschbaumer](#)
Subject: RE: King Township Stormwater Master Plan
Date: August 24, 2021 12:29:56 PM
Attachments: [image002.png](#)
[image003.png](#)

Jonathon;

MECP staff have nothing further to add.

Kind Regards;

JJA

JEFF J. ANDERSEN

**MANAGEMENT BIOLOGIST
PERMISSIONS AND COMPLIANCE SECTION, SPECIES AT RISK BRANCH
LAND AND WATER DIVISION
ONTARIO MINISTRY OF THE ENVIRONMENT, CONSERVATION AND PARKS**

50 Bloomington Road, Aurora ON L4G 0L8 | jeff.andersen@ontario.ca | 289-221-1705



From: Jonathon Kerschbaumer <jkerschbaumer@civi.ca>
Sent: August 23, 2021 4:54 PM
To: Species at Risk (MECP) <SAROntario@ontario.ca>
Subject: King Township Stormwater Master Plan

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

Hello,

I am currently working on finalizing the King Township stormwater master plan. We are following approach #1 as identified by the MECP environmental assessment process identified in Section 4.4 of Appendix A of the MECP environmental assessment manual. This approach follows phase 1 and phase 2 of the MCEA process at a broad level with site specific projects to follow in the future. We have identified SAR and the potential habitats within the Township and have stated that authorization as per the Species at Risk Act is required if any of the proposed activities were to occur in or near potential SAR habitats. Is there any other concerns related to SAR in the Township of King that should be identified in the stormwater master plan report?

Thanks,

Jonathon Kerschbaumer, EIT
Intermediate Water Resources Project Analyst



330 Rodinea Road, Unit 3, Vaughan, Ontario, Canada, L6A 4P5

P: (905) 417-9792 x 2334

E: jkerschbaumer@civi.ca

W: <https://civi.ca/>

NEWS: <https://civi.ca/civica-news/>

TRCA Correspondence & Comments

September 2, 2021

CFN 65471

BY E-MAIL ONLY (dwilkinson@king.ca)

Daniel Wilkinson
Environmental Project Manager
Public Works
Township of King
2585 King Road
King City, ON L7B 1A1

Dear Mr. Wilkinson:

**Re: Response to Notice of Completion (NoC) and Final Report (FR)
Township of King Comprehensive Stormwater Management Master Plan (CSWMMP)
Humber River Watershed; Township of King; Regional Municipality of York**

Toronto and Region Conservation Authority (TRCA) staff received the Notice of Completion (NOC) and downloaded the Final Report (FR) from the Township of King's website for the above-noted Master Plan on July 11, 2021.

Staff understands that this undertaking involves a Master Plan Study to support growth scenarios outlined in the Township's 2019 Official Plan (OP), and to ensure the required level-of-service can be provided throughout the Township. Staff also understands that study area includes the Villages of King City, Nobleton, and Schomberg, as well as the Hamlets of Ansnorveldt, Snowball, Lloydtown, Laskay, Kettleby, Pottageville, and Graham Sideroad and are located within the jurisdictions of both Toronto and Region Conservation Authority (TRCA) and Lake Simcoe Region Conservation Authority (LSRCA).

Staff understands that the preferred alternative solution involves a stormwater management (SWM) strategy with a combination of both traditional SWM and Low Impact Development (LID) measures to effectively and efficiently address concerns created from stormwater runoff. Staff also understands that this CSWMMP characterized existing and future hydrologic conditions using the proposed future development identified in the OP.

Staff has completed their review of the FR and has no objection in principle to the preferred alternative. It is also staff's understanding that TRCA will be consulted at the appropriate points in all stormwater management projects (SWMP) identified during the implementation phase including project specific Environmental Assessments (EAs) and detailed design process to ensure that permitting requirements under Conservation Authorities Act are identified as early as possible.

REVIEW FEES

Please be advised that this application is subject to a \$ 13,370.00 application review fee as per our 2021 [Fee Schedule](#). Should you have any concerns please contact me directly to discuss.

Please note:

1. **To ensure accurate processing of your fee, please ensure your accounting department references CFN 65471 when making any payments.**
2. Payment method and timing must be noted in your covering letter response.
3. Additional fees are applied as per the fee schedule for reviews beyond two (2) three (3) submissions, including the final.
4. Payments can be made by:
 - a. Cheque: please attach the cheque to your resubmission. Alternatively, if sending separately through your accounting department, please request your accounting department submit the cheque to the attention of Oxana Stanislavskaya - Accounting Clerk, Finance Corporate Services, TRCA.
 - b. Credit Card: please contact Oxana Stanislavskaya at extension 6442 for payments made over the phone.
 - c. Electronic Fund Transfer: this option may be available through your accounting department.

Should you have any questions or require any additional information please contact me at extension 5715 or at Manirul.islam@trca.ca.

Yours truly,



Manirul Islam

Planner, Infrastructure Planning and Permits
Development and Engineering Services
/MI

Encl.: Appendix A: TRCA Comments

BY E-MAIL

cc: TRCA: Beth Williston, Associate Director, Infrastructure Planning and Permits
Quentin Hanchard, Associate Director, Development Planning and Permits
Victoria Kramkowski, Government and Community Relation Specialist

APPENDIX A: TRCA COMMENTS

| ITEM | TRCA COMMENTS (September 2, 2021) | PROPONENT/CONSULTANT RESPONSE - 1 | TRCA COMMENTS (September 23, 2021) | PROPONENT/CONSULTANT RESPONSE - 2 |
|--|---|--|---|---|
| Water Resources Comments: | | | | |
| Water Resources Engineering staff are supportive of the preferred approach to incorporate traditional SWM and the use of LIDs. TRCA also supports potential to upgrade SWM facilities listed in Table 7-3 and supports the recommendations for further studies listed in Table 11-8. | | | | |
| 1. | If possible, TRCA would appreciate incorporating the Township's updated SWM Soft data into TRCA's SWM Soft database. Please contact alison.maclennan@trca.ca to coordinate, as appropriate. | Coordinating with TRCA Staff for discussion and providing relevant SWM Soft data | Civica discussed with our Water Resources Engineer regarding SWM Soft data and it was determined that it was not complete and likely not entirely useful to TRCA. So, this comment has been satisfied. No further action is required. | - |
| 2. | Please note in TRCA's opinion that there are more flood prone areas that are listed in section 4.7.2 which refers mainly to spill areas. When flood remediation is contemplated, consideration should be given to all flood prone areas and not those just within spills. | Note added to section 4.7.2 stating properties falling under floodplain should be analyzed for flood remediation | The proposed changes to section 4.7.2 are satisfactory and address this comment. No further action is required. | - |
| 3. | Modelling results indicate improvements the preferred SWM approach will have on water quantity, quality and water balance. TRCA suggests that it would be helpful to have more detailed information on what mitigation measures were modelled to produce these results to | Note added to section 10.3 outlining that infiltration chambers were used to reflect on-site LID's. | It has been noted that infiltration chambers were modelled to mimic the proposed LIDs. TRCA staff is still interested to see the differences between the existing and proposed modelling scenarios (what | ADS Storm Tech Chamber (DC-780) with an impermeable liner was considered as an Infiltration Chamber in the VO model. Infiltration chamber was designed with an outflow, an underdrain, and an overflow. Maximum Storage volume (m ³) was generated for the infiltration chamber |

| | | | | |
|-------------------------------|--|---|---|--|
| | ensure that the SWM/LID measures can be implemented through the development process and retrofit opportunities could be undertaken. TRCA is interested in a summary of what changes were made between existing and future conditions (with the preferred solution) modelling scenarios. | | modelling parameters were used, sizing of tanks modelled etc.) in order to achieve the noted flow reductions. A summary explanation and a copy of the digital modelling would be of interest. | after parameter adjustments. Max volume in an Infiltration chamber after parameter adjustments was 2078 m ³ . Values of all the parameters for the infiltration chambers considered in VO model are as follows: <ol style="list-style-type: none"> 1. Number of individual storage chambers used in design = 900 2. Base of Stone/Storage Elevation (m) = 100 3. Depth of Stone Above chambers (mm) = 150 4. Depth of Stone Below chambers (mm) = 230 5. System Footprint (m²) = 3000 6. Voids in Stone (Porosity) = 0.4 7. Max Storage Volume (m³) = 2078 8. Max Storage Rating Curve = 46 9. Initial water Level (m) = 0 |
| Hydrogeology Comments: | | | | |
| 4. | Please consider ORMGP Technical Paper 17 (Stormwater Management Plans) and in particular the directives towards Rapid infiltration basins and columns in stormwater management planning. ORMGP Technical Paper 17 Stormwater Management Plans (oakridgesmoraine.org) | Note added to section 10.3 outlining that rapid infiltration basins are prohibited in the oak ridges moraine. | - | - |

MECP Correspondence & Comments

**Ministry of the
Environment, Conservation
and Parks**

**Ministère de l'Environnement,
de la Protection de la nature et
des Parcs**



***Environmental Assessment
Branch***

***Direction des évaluations
environnementales***

1st Floor
135 St. Clair Avenue W
Toronto ON M4V 1P5
Tel.: 416 314-8001
Fax.: 416 314-8452

Rez-de-chaussée
135, avenue St. Clair Ouest
Toronto ON M4V 1P5
Tél. : 416 314-8001
Télec. : 416 314-8452

August 21, 2021

Daniel Wilkinson, Environmental Project Manager (BY EMAIL ONLY)
Township of King
dwilkinson@king.ca
kingstormwatermasterplan@civi.ca

**Re: Township of King Comprehensive Stormwater Management Master Plan (CSWMMP)
Township of King
Municipal Class Environmental Assessment (Master Plan, Approach 1)
Project Review Unit Comments**

Dear Project Team,

This letter is in response to the Notice of Study Completion and Final Report for the Township of King Comprehensive Stormwater Management Master Plan conducted under the Municipal Class Environmental Assessment (Master Plan, Approach #1). Our understanding is that the preferred alternative is to combine traditional stormwater management measures and Low Impact Development (LID) measures. MECP provides the following comments for your consideration.

Notice of Completion

1. The **Notice of Completion** should include a disclaimer about the *Freedom of Information and Protection of Privacy Act* (FIPPA). This is noted for your awareness for future projects. Please see template wording below.

All personal information included in your request – such as name, address, telephone number and property location – is collected, under the authority of section 30 of the *Environmental Assessment Act* and is collected and maintained for the purpose of creating a record that is available to the general public. As this information is collected for the purpose of a public record, the protection of personal information provided in the *Freedom of Information and Protection of Privacy Act* (FIPPA) does not apply (s.37). Personal information you submit will become part of a public record that is available to the general public unless you request that your personal information remain confidential.

2. The Notice of Commencement and the Notice of Completion should identify which Master Plan Approach is being followed. The Notice of Completion describes that the study followed Phases 1 and 2 of the MCEA process, but it does not explicitly state that the study is following Approach #1. This is noted for your awareness for future projects.
3. The Notice of Commencement and Notice of Completion should include a map of the study area. A map of each urban area is not necessary. Rather, the map used on the cover page of the Final Report, showing the complete study area, could have been used. This is noted for your awareness for future projects.

Indigenous Consultation

4. The Final Report does not provide adequate documentation of Indigenous consultation. The Report does not provide any information about whether any communities provided responses, the issues raised, and how they have been or will be addressed. Any correspondence with Indigenous communities should be included in the EA documentation. If no comments were received, this should be documented. **Without this information, the ministry cannot determine whether adequate consultation has been undertaken. An Indigenous Consultation Record that provides this information is requested.**

Despite the delegation of the procedural aspects of consultation, the ministry retains responsibility for ensuring that the Crown's duty to consult is met. To do this, the ministry needs to understand the consultation that has been carried out and needs to be able to assess for itself that the identified Indigenous communities have received the appropriate information on the project and have been afforded an opportunity to be meaningfully consulted. A clear means of confirming that an Indigenous community has received information regarding the project and has had an opportunity to raise any concerns the community may have with respect to impacts on Aboriginal or treaty rights is for an Indigenous community to confirm this to the proponent in writing.

Where such written confirmation is not available, the ministry will consider the efforts made by the proponent to reach out to the identified Indigenous communities, as evidenced in the consultation record. Not receiving a response from an Indigenous community does not necessarily indicate a lack of interest in a project and should not be taken as such. In these circumstances, contact information for the community should be confirmed and further attempts made to contact the community during the Class EA process. Indigenous communities frequently receive a high volume of project notices and require time to review project proposals. For this reason, it is important that a proponent utilize different methods of reaching out to communities and reach out to the communities at different points in the process. Documentation of these efforts should be contained in the consultation record, including courier receipts, read receipts for emails, and telephone logs recording calls and messages. Any efforts to follow-up by the proponent should be documented in the record of consultation that accompanies the Class EA documentation. Further, a summary of the consultation undertaken, including the issues raised and how they have been or will be addressed should be included in the report.

5. MECP notes that that the Notice to Indigenous Communities was sent on April 20, 2021, after both Public Information Centres were completed. Indigenous communities should be engaged early in the planning process, not at the end, so they have the opportunity to fully participate in and inform the planning process. As stated in Section A.3.1 of the MCEA, "consultation early in and throughout the process is a key feature of environmental assessment planning". Section A.3.3 (Stakeholders) of the MCEA states that stakeholders, including First Nations and Aboriginal

Peoples, “should be contacted at the same points throughout the planning process”. Indigenous communities should be sent the Notice of Commencement and Public Information Centre Notices.

6. The Notice to Indigenous Communities states that, “we hope to hear your input on the project and will follow up with a review of the Final Master Plan”. Was the Notice of Completion and Final Report sent to Indigenous communities for comment?
7. Comments regarding the email addresses:
 - a) The Notice to Indigenous Communities was sent to one email address for most of the communities and many of these email addresses are general accounts: info@hiawathafn.ca, communication@curvelake.ca, info@scugogfirstnation.com, info@chimnissing.ca, administration@cnhw.qc.ca). Most communities have specific consultation staff or consultation email addresses. Efforts should be made by the proponent to identify these email addresses, either online or by contacting the community directly. Indigenous contact lists should be regularly verified and updated.
 - b) Given these Notices were distributed to general email accounts, efforts should be made by the proponent to follow-up with the community to confirm receipt.
 - c) The email address provided for MNO Region 7 Councillor David Dusome is info@metisnation.org. The Notice should have been sent directly to David Dusome, not to a general account.
 - d) MECP notes that the Notice to Indigenous communities was sent to communications@williamstreatiesfirstnations.ca, not to the Williams Treaties Coordinator, Karry Sandy-McKenzie. Karry Sandy-McKenzie should be directly copied on future correspondence with Williams Treaties First Nations unless recommended otherwise in the Letter of Acknowledgement.
 - e) There is no email address provided for Chippewas of Georgina Island. Was the Notice mailed to this community? Did the proponent follow up with the community to confirm receipt of the Notice? As a result of COVID-19, some communities have limited access to the office. Consequently, MECP recommends that any notifications sent via mail be provided via email as well, or the proponent should follow up with the communities via email or telephone to confirm the Notice was received.

Consultation

8. The Finale Report does not provide adequate documentation of public consultation. The Report does not provide any information regarding public responses, the issues raised, and how they have been or will be addressed.

It is noted that “one attendee commented that stormwater flooding is a reoccurring issue in Nobleton that requires addressing when planning for stormwater in the future”. Is this the only comment that was received during PIC #1?

The Report should include a summary of the feedback received during the Public Information Centres and how that feedback has been or will be addressed, as well as copies of the completed comment sheets. **A summary of public consultation is requested.**

9. The Final Report provides no information about consultation with stakeholders and review agencies. Section A.3.3. outlines potential stakeholders, including municipalities other than the proponent and review agencies (government agencies who represent the policy positions of their respective departments, ministries, authorities or agencies, including federal, provincial and municipal agencies whose position may result in regulatory or statutory approval). Section A.3.6 (Review Agencies) of the MCEA states that “as a minimum, review agencies are to be contacted at the mandatory contact points identified in Exhibit A.2 and discussed in Section A.3.4”. Please refer to Section A.3.6 for a list of review agencies to be contacted in all cases and a list of agencies who may have an interest. Section A.2.7.1 (The Master Planning Process) states that “it is imperative that public and agency consultation take place during each phase of the study process, specifically, at the initiation of the Master Plan study so that the scope and purpose of the study is understood and at the selection of the preferred set of alternatives”.

The Final Report should identify which stakeholders and review agencies were consulted and how (e.g. which notices were sent to them). Additionally, the Report should include a summary of any comments received, the issues raised, and how they have been or will be addressed. Any correspondence should be included in the EA documentation. If no comments were received, this should be documented. **Without this information, the ministry cannot determine whether adequate consultation has been undertaken. A summary of stakeholder/review agency consultation is requested.**

10. The Final Report should provide information about how the Notices were advertised. As indicated in Section A.3.5.3 (Methods of Public Contact) of the MCEA, there should be two published Notices for the first mandatory point of contact. The MCEA indicates that “for the purposes of this Class EA, a published notice shall mean a notice published in a local newspaper having general circulation in the area of the project. Two (2) published notices shall mean two (2) notices appearing in separate issues of the same newspaper. Where no such newspaper exists, the proponent shall be responsible for determining the equivalent local means of achieving the same objective of adequate notification to the general public”. This should be documented in the Final Report.

Species at Risk

11. It is the responsibility of the proponent to ensure that Species at Risk are not killed, harmed, or harassed, and that their habitat is not damaged or destroyed through the proposed activities to be carried out on the site. Authorization under the *Endangered Species Act* may be required. The proponent should contact SAROntario@ontario.ca for questions and concerns related to Species at Risk and the *Endangered Species Act*.

Section 6.5, Modelling Results

12. According to Tables 6-4 (TRCA Event Mean Concentrations) and 6-5 (LSRCA Event Mean Concentrations), event mean concentrations of total phosphorus are the same for forest and intensive agriculture, as well as for non-intensive agriculture (0.23 mg/L). This is not accurate. Additionally, total phosphorus event mean concentrations are reported as being lower for industrial areas (0.33 mg/L) than for estate residential or medium density residential areas (0.4 mg/L). Most of the assigned concentrations for the specific land uses are not accurate and need to be revised.

13. Terminology used in Tables 6-6 (Total Suspended Solids Deficit) and 6-7 (Total Phosphorus Deficit) are imprecise and misleading. Tables 6-6 and 6-7 present changes (increases) in the annual TSS and TP loadings as a result of future developments, not the deficit (shortage) of TP and TSS.
14. Under the climate change scenario in the future storm and flow modelling, the consultant used the worst-case scenario (RCP 8.5). It is unclear why this scenario was selected as it extreme (as demonstrated in Table 6-3) and is not supported by reliable data. MECP recommends that a moderate, science-based approach be used or clarification provided on why this scenario was used.
15. The **average infiltration depths** for the Nobleton, King and Schomberg urban areas provided in Table 6-8 (Water Balance Results) **vary from 365 to 468 mm/year in pre-development conditions**. It is unclear how the consultant determined these values. Clarification should be provided. The actual evapotranspiration values are highly underestimated (296-400 mm), while the infiltration rates and runoff are overestimated.

Section 11.1.4 (Performance Monitoring)

16. MECP notes that developing a sediment accumulation investigation program to verify sediment quantities and expected clean out schedules is outlined as a key consideration and opportunity for performance monitoring. MECP affirms that a clean out schedule for new and existing stormwater management ponds is recommended.

Master Plan Reviews

17. Please **refer to Section 4.4 (Master Planning Process) of Appendix 4 (Master Plans)** for information regarding Master Plan Reviews. This Section states that “it is recommended that the proponent include within the Master Plan, regardless of the approach followed, a process **stating clearly** to the public and potentially affected persons **when and how the Master Plan will be reviewed**”.

Draft Final Report

18. For future reference, MECP encourages the practice of sharing a draft copy of the Final Report for review in advance of the issuance of the Notice of Completion. Sometimes EA documentation is deficient or incomplete and/or MECP identifies concerns that may require further work or consultation. It is advantageous for both the proponent and the ministry to identify these concerns or comments before the final notice is issued for the following reasons:
 - a) It is easier to address comments and make revisions before the report is put on the public record.
 - b) It reduces complexity and confusion with version controls in the public realm if revisions are requested.
 - c) It reduces the potential requirement for an addendum or errata documentation.
 - d) It provides appropriate time for the proponent to engage in meaningful consultation with MECP.
 - e) It reduces the potential for a Part II Order request or an order or conditions to be imposed by the Minister.

Implementation

19. The Final Report identifies that the Township is following Approach #1 for Master Plans. Approach #1 involves the Master Plan being done at a broad level of assessment thereby requiring more detailed investigations at the project-specific level in order to fulfil the Municipal Class EA documentation requirements for any Schedule B and C projects identified within the Master Plan. Schedule B projects would require the filing of the Project File for public review while Schedule C projects would have to fulfil Phases 3 and 4 prior to filing an Environmental Study Report for public review. There are no Part II Order provisions at the time of completion of the Master Plan for Approach #1. Projects will be subject to Part II Order provisions at the time of filing of a Project File or Environmental Study Report.

Thank you for the opportunity to comment on this project. Please provide responses to these comments to me.

Should you or any members of your project team have any questions regarding the material above, please contact me at Erinn.Lee2@ontario.ca.

Sincerely,



Erinn Lee
Regional Environmental Planner
Project Review Unit, Environmental Assessment Branch
Ontario Ministry of the Environment, Conservation and Parks

cc Katy Potter, Supervisor, Project Review Unit, MECP
Celeste Dugas, York-Durham District Manager, MECP

| Reference | Bullet | Comment | Response/Action 1 | Comments (Sep-24, 2021) | Response/Action 2 | Comments (Dec-30, 2021) | Response/Action 3 |
|----------------------------------|--------|--|---|--|---|---|---|
| Indigenous Consultation | 4 | The Final Report does not provide adequate documentation of Indigenous consultation. The Report does not provide any information about whether any communities provided responses, the issues raised, and how they have been or will be addressed. Any correspondence with Indigenous communities should be included in the EA documentation. If no comments were received, this should be documented. Without this information, the ministry cannot determine whether adequate consultation has been undertaken. An Indigenous Consultation Record that provides this information is requested. | Indigenous Consultation record is provided in updated appendix N of the report | After reviewing the updated information provided regarding Indigenous consultation, MECP reiterates that Indigenous communities should be engaged early in the planning process, not at the end, so they have the opportunity to fully participate in and inform the planning process. As stated in Section A.3.1 of the MCEA, "consultation early in and throughout the process is a key feature of environmental assessment planning". Section A.3.3 of the MCEA states that stakeholders, including First Nations and Aboriginal Peoples, "should be contacted at the same points throughout the planning process". In the future, please send all Notices to the identified Indigenous communities. | To adequately address this comment, an additional communication and confirmation of contact with a representative respondent has been undertaken. Where email communication was not confirmed with a response, a follow up phone call was initiated to seek confirmation of who to communicate too and a response requested. Outcomes of these actions are summarized in Appendix N | - | - |
| | 6 | The Notice to Indigenous Communities states that, "we hope to hear your input on the project and will follow up with a review of the Final Master Plan". Was the Notice of Completion and Final Report sent to Indigenous communities for comment? | The Notice of Completion was sent to Indigenous Communities and the link to the King website containing the Final Report was sent | - | - | - | - |
| Indigenous Contact emails | 7.b | Given these Notices were distributed to general email accounts, efforts should be made by the proponent to follow-up with the community to confirm receipt. | Efforts have been made to follow up with communities to confirm receipt. | MECP notes that "efforts have been made to follow up with communities to confirm receipt". Please clarify what efforts were made. Did you follow-up to a specific consultation email instead of the general email? Did you follow-up via phone call? How much time did you give the communities to provide a response? Did you receive any responses? Any follow-up efforts should be documented in the EA documentation (e.g. date emails sent or phone calls made, summary of phone call discussion even if only informational). Follow-up is important given the notices were sent to general email addresses and these communities did not receive previous notices throughout the process (Notice of Commencement, PICs). | To adequately address this comment, an additional communication and confirmation of contact with a representative respondent has been undertaken. Where email communication was not confirmed with a response, a follow up phone call was initiated to seek confirmation of who to communicate too and a response requested. Outcomes of these actions are summarized in Appendix N | The Indigenous contact information was not updated in Appendix N. Please keep the updated contact list as part of the project file record, available upon request | Indigenous contact list has been updated in Appendix -N to include additional contacts. |
| | 7.c | The email address provided for MNO Region 7 Councilor David Dusome is info@metisnation.org. The Notice should have been sent directly to David Dusome, not to a general account | A follow up email to confirm receipt has been sent to David Dusome | Did you receive a response from David Dusome? Was this follow-up email sent directly to David or to the general email account? | No response was received from David Dusome. Follow-up email was sent directly to David Dusome (david@metisnation.org) | - | - |
| | 7.d | MECP notes that the Notice to Indigenous communities was sent to communications@williamstreatiesfirstnations.ca, not to the Williams Treaties | Will email Kary Sandy-McKenzie | MECP acknowledges the commitment to email Kary Sandy-McKenzie directly on further correspondence to inquiries@williamstreatiesfirstnations.ca. However, as per comment 7, general email | Communication protocol has been changed to address this comment. | - | - |

| | | | | | | | |
|--------------|-----|---|--|---|--|---|--|
| | | Coordinator, Karry Sandy-McKenzie. Karry Sandy-McKenzie should be directly copied on future correspondence with Williams Treaties First Nations unless recommended otherwise in the Letter of Acknowledgement. | directly on any further correspondence at inquiries@williamstreatiesfirstnations.ca | accounts should not be used. In the future, Karry Sandy-McKenzie should be CC'ed on emails sent directly to Williams Treaties First Nations, unless advised otherwise in the Letter of Acknowledgement from MECP. | | | |
| | 7.e | There is no email address provided for Chippewas of Georgina Island. Was the Notice mailed to this community? Did the proponent follow up with the community to confirm receipt of the Notice? As a result of COVID-19, some communities have limited access to the office. Consequently, MECP recommends that any notifications sent via mail be provided via email as well, or the proponent should follow up with the communities via email or telephone to confirm the Notice was received. | The Chippewa of Georgina Island were contacted using their online contact option found here: https://www.georginaisland.com/contact-us/ | Did you receive a response from Chippewas of Georgina Island using this link? If not, there are other email addresses on their website in the Environment and Lands department that may be more appropriate for follow-up communication to ensure someone in the community received the information and had an opportunity to review. | Additional person was contacted from the Chippewas of Georgina Island for the follow-up communication. | Appendix N does not include the original correspondence from Huron Wendat, Mississauga's of Scugog Island First Nation (including the proponent's response) and Chippewas of Rama First Nation. This should be included in the Appendix, similar to the agency comments | Original correspondence has been added in Appendix-N |
| Consultation | 8 | A summary of public consultation is required | All public consultation responses, issues raised, and how they will be addressed are contained in Appendix N of the report | The updated Section 12.0 (Public Consultation) indicates that the Notice of Commencement and Notice of Completion were distributed to "stakeholders". Which stakeholders is this referring to? Key stakeholders should be identified in a Project Contact List (e.g. organizations, interest groups, agencies). You can use a more general term for members of the public that were identified as stakeholders based on expressed interest, as opposed to identifying specific individuals. Did you receive any responses from these stakeholders (other than the identified agencies: MECP, LSRCA and TRCA)? | added a summary table of stakeholders in Appendix N and their role and interest | Please confirm whether LSRCA provided any comments. If so, they should also be included | LSRCA have not provided any comments. |
| | | | | The updated Section 12.0 states that comments from the general public and stakeholders in response to the Notice of Completion are identified in Appendix N. There are no comments in Appendix N from stakeholders or the general public, with the exception of a public comment for PIC #1. Does this mean no public or stakeholder comments were received in response to the Notice of Completion? If not, then the EA documentation should state this instead of indicating that comments are in Appendix N. If there are comments, they should be provided. | Changed to reflect the stakeholder engagement | - | - |
| | | | | MECP recommends that the names and email addresses of individuals that provided comments and participated in the PICs be redacted from the report (e.g. still include their full comment but without their name and email address and indicate the number of people who attended the PIC rather than their specific names), especially given the FIPPA disclaimer was not included in the Notices. This information will still be part of the public record and available upon request. | PICs have been updated to only include number of attendees instead of providing names of the people attended the PIC. Comment sheets have been updated to remove the information (i.e., Name and email address) of the people who provided comments. | - | - |
| | 9 | The Final Report provides no information about consultation with stakeholders and review agencies. | All stakeholder responses, issues raised, and how they will be addressed are contained | Thank you for providing the comments from TRCA and MECP. Please also include the comments from LSRCA. The Ministry of Municipal Affairs and Housing (MMAH), the Ministry of Northern Development, Mines, Natural Resources and Forestry (MNDMNR), and local municipalities | Summary table of stakeholder status added to Appendix N | - | - |

| | | | | | | | |
|-------------------------------|------|--|---|--|-----------------------------------|--|---|
| | | | in Appendix N of the report | could also have been provided an opportunity to review and comment. These ministries and municipalities should be engaged during any subsequent project-specific Schedule B and C EAs conducted under this Master Plan. DFO may also need to be contacted depending on the project. Please refer to Section A.3.6 of the MCEA for a list of potential review agencies to be contacted. | | | |
| | 10 | The Final Report should provide information about how the Notices were advertised. | notes regarding notice advertisement are added to section 12.0 | Thank you for providing additional information about how the Notices were shared. Please note Section A.3.5.3 (Public Notices) of the MCEA for future reference: "Each of the points of contact with the public shall be advertised by means of published Notices to the public...For the purposes of this Class EA, a published notice shall mean a notice published in a local newspaper having general circulation in the area of the project. Two (2) published notices shall mean two (2) notices appearing in separate issues of the same newspaper. Where no such newspaper exists, the proponent shall be responsible for determining the equivalent local means of achieving the same objective of adequate notification to the general public. In cases where a municipality has elected to establish a procedure for notifying the public regarding similar projects under other applicable provincial legislation, the proponent may use that procedure to fulfill their requirements for 'published notice'". In addition to the PICs, the Notices of Commencement and Completion should also be advertised in the local newspaper. | Public Consultation process noted | - | - |
| | 12.1 | - | - | - | - | Could you please clarify whether this Master Plan is intended to cover the Schedule B project identified? If so, additional information would need to be provided about the project and project-specific mitigation measures. | The Master Plan is not intended to cover the schedule B projects. |
| Species at Risk | 11 | The proponent should contact SAROntario@ontario.ca for questions and concerns related to Species at Risk and the Endangered Species Act. | THE SAR Ontario has been contacted and correspondence is provided in Appendix N | - | - | - | - |
| Section 6.5 Modelling Results | | According to Tables 6-4 (TRCA Event Mean Concentrations) and 6-5 (LSRCA Event Mean Concentrations), event mean concentrations of total phosphorus are the same for forest and intensive agriculture, as well as for non-intensive agriculture (0.23 mg/L). This is not accurate. Additionally, total phosphorus event mean concentrations are reported as being lower for industrial areas (0.33 mg/L) than for estate residential or medium density residential areas (0.4 mg/L). Most of the assigned concentrations for the specific land uses are not accurate and need to be revised. | The purpose of this report is to present a high-level study of the area to identify trends in concentrations based on the proposed preferred solution. Revising the concentrations of landuses will not change the overall results and will not provide any further value to the report as the reports in the trends of implementing LID's will have the same results in providing Phosphorous loading reductions | - | - | As previously discussed on the phone, future project-specific studies should update the mean concentrations of total phosphorus for different land uses and average infiltration depths and evapotranspiration values, where relevant in studies | Comment noted for future Master plan considerations |

| | | | | | | | |
|--|----|--|---|--|---|----------------------------|---|
| | | | | | | for any subsequent phases. | |
| | 13 | Terminology used in Tables 6-6 (Total Suspended Solids Deficit) and 6-7 (Total Phosphorus Deficit) are imprecise and misleading. Tables 6-6 and 6-7 present changes (increases) in the annual TSS and TP loadings as a result of future developments, not the deficit (shortage) of TP and TSS. | Table headings changed accordingly for clarity | MECP notes that the table headings have been changed accordingly for clarity. What were the table headings changed to? | They were changed to these respective titles Pre-Development vs. Post-Development Total Suspended Solids Pre-Development vs. Post-Development Total Phosphorus | - | - |
| | | Under the climate change scenario in the future storm and flow modelling, the consultant used the worst-case scenario (RCP 8.5). It is unclear why this scenario was selected as it extreme (as demonstrated in Table 6-3) and is not supported by reliable data. MECP recommends that a moderate, science-based approach be used, or clarification provided on why this scenario was used. | This scenario was used to prove that the implementation of LIDs within the Township will still provide substantial stormwater runoff controls even under the worst-case scenario | - | - | - | - |
| | | The average infiltration depths for the Nobleton, King and Schomberg urban areas provided in Table 6-8 (Water Balance Results) vary from 365 to 468 mm/year in pre-development conditions. It is unclear how the consultant determined these values. Clarification should be provided. The actual evapotranspiration values are highly underestimated (296-400 mm), while the infiltration rates and runoff are overestimated. | These values are estimated by the VO model based on typical soil classifications and type of landuse cover within the study areas. Evapotranspiration was estimated using available climate data. Additional clarification is included in section 6.5.3 | - | - | - | - |
| | 17 | Please refer to Section 4.4 (Master Planning Process) of Appendix 4 (Master Plans) for information regarding Master Plan Reviews. This Section states that "it is recommended that the proponent include within the Master Plan, regardless of the approach followed, a process stating clearly to the public and potentially affected persons when and how the Master Plan will be reviewed". | Included in Section 1.1 of the report | Information about the "process stating clearly to the public and potentially affected persons when and how the Master Plan will be reviewed" is not included in Section 1.1 of the report. Step 9 (Develop an Implementation Plan for the Recommended Approaches) and Step 10 (Develop Programs for Inspection and Maintenance of Stormwater Management Facilities) provide information about implementing various recommendations within the Plan, but do not specify when the Master Plan itself will be reviewed. | Within Section 1.1 the last bullet has been modified to read as follows from the original content of "Is generally long term" to "is generally long term and should be reviewed at least every 5 years to integrate any changes that may have occurred and ensure continued accuracy and relevance" | - | - |