

## **A.3 PUBLIC CONSULTATION CENTRES**

## NOTICE OF PUBLIC INFORMATION CENTRES

### Background

Development throughout Middlesex Centre has historically been fragmented, and has led to a fragmented stormwater management system that is made up of a combination of Municipal Drains and municipal storm sewers. In order to develop a plan for effectively managing stormwater infrastructure for existing areas and to accommodate future growth, the Municipality is developing a Stormwater Master Plan.



### The Master Planning Process

The Master Plan will be undertaken in accordance with the Municipal Class Environmental Assessment process (Municipal Engineers Association 2000, as amended in 2007, 2011, and 2015). The Master Plan will consider all aspects of the environment in order to develop a holistic plan for managing this important asset. The Master Plan will be an important resource for the Municipality as it continues to adapt to growth and changing environmental conditions and regulations. The study area for the Master Plan will include the settlement areas of Arva, Birr, Ballymote, Coldstream, Denfield, Ilderton, Kilworth, Komoka, Melrose, Poplar Hill, Bryanston and Lobo. A Stormwater Master Plan has previously been completed for the community of Delaware in 2016.






### How can I get involved?



An online webmap and questionnaire are still available on [www.middlesexcentre.on.ca/stormwater](http://www.middlesexcentre.on.ca/stormwater). Here, you will have the opportunity to identify specific areas where you have experienced ponding water, basement flooding, or other drainage concerns.

The first round of Public Information Centres (PICs) are being held to present information on the study and existing drainage conditions throughout the Municipality, and to get YOUR INPUT. Feel free to drop in at any of the following PICs:

- |   |   |   |
|---|---|---|
| <b>Monday May 7<sup>th</sup></b><br><b>6:30pm-8:30pm</b>    |  | London Life Room, Komoka Wellness and Recreation Centre, 1 Tunks Ln, Komoka |
| <b>Tuesday May 8<sup>th</sup></b><br><b>6:30pm-8:30pm</b>   |  | Ilderton Community Centre, 13168 Ilderton Rd, Ilderton                      |
| <b>Thursday May 10<sup>th</sup></b><br><b>6:30pm-8:30pm</b> |  | Bryanston Community Centre, 15321 Plover Mills Rd RR 3, Ilderton            |

We encourage all residents to visit the link above or contact a member of the study team below for more information or to be added to the study's mailing list to receive future updates. PIC material will be available at the website above following the PIC. We look forward to seeing you at the first round of PICs!

Brian Lima, P. Eng.  
Director, Public Works and Engineering  
Municipality of Middlesex Centre  
(519) 666-0190 Ext. 233  
lima@middlesexcentre.on.ca

Stephanie Bergman, MA,  
Planner  
Stantec Consulting Ltd.  
519-675-6614  
stephanie.bergman@stantec.com

From: [Bergman, Stephanie](#)  
To: [Undisclosed Recipients \(stephanie.bergman@stantec.com\)](mailto:stephanie.bergman@stantec.com)  
Cc: [Brian Lima](#); [Dan Anderson](#); [Oliveira, Nelson](#)  
Bcc: [REDACTED]  
Subject: Middlesex Centre Stormwater Master Plan - Notice of PIC  
Date: Monday, April 23, 2018 3:43:00 PM  
Attachments: [PIC1\\_Notice\\_04172018.pdf](#)

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Greetings,

Thank you for providing input on the [Middlesex Centre Settlement Area Stormwater Master Plan](#)! The team has been busy compiling information on existing drainage conditions throughout the Municipality and has been reviewing all of the input submitted through the [webmap](#).

We would like to invite you to the first round of Public Information Centres (PICs). This first round of PICs are being hosted to present background information, existing drainage conditions, an overall roadmap for the Master Plan study, and to get input from the community. The PICs will be held in open house format, and members of the study team from Stantec Consulting and staff from Middlesex Centre will be in attendance to answer questions. Feel free to drop in any time from **6:30pm-8:30pm** at any of the following:

- **Monday May 7<sup>th</sup>**, Komoka Wellness and Recreation Centre (1 Tunks Ln., Komoka)
- **Tuesday May 8<sup>th</sup>**, Ilderton Community Centre (13168 Ilderton Rd., Ilderton)
- **Thursday May 10<sup>th</sup>**, Bryanston Community Centre (15321 Plover Mills Rd. RR3, Ilderton)

The information presented will be made available at [www.middlesexcentre.on.ca/stormwater](http://www.middlesexcentre.on.ca/stormwater) following the PICs. Another round of PICs will be held later in the study to present more details on the Stormwater Master Plan.

If you have any questions or would like to provide input on the study, please feel free to contact me.

Have a great day! ☀

**Stephanie L. Bergman**

MA, ENV SP  
Planner

Direct: 519-675-6614

Fax: 519-645-6575

Email: [stephanie.bergman@stantec.com](mailto:stephanie.bergman@stantec.com)

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From: [Bergman, Stephanie](#)  
To: [Stephanie L. Bergman \(stephanie.bergman@stantec.com\)](mailto:Stephanie.L.Bergman@stantec.com)  
Bcc:

Subject: Middlesex Centre SWM Master Plan Public Information Centres  
Date: Tuesday, May 01, 2018 11:54:00 AM  
Attachments: [PIC1\\_Notice\\_04172018.pdf](#)

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Greetings,

We would like to invite you to the first round of Public Information Centres (PICs) for the Middlesex Centre Settlement Area Stormwater Management Master Plan. This first round of PICs are being hosted to present background information, existing drainage conditions, an overall roadmap for the Master Plan study, and to get input from the community and other stakeholders. The PICs will be held in open house format and members of the study team from Stantec Consulting and staff from Middlesex Centre will be in attendance to answer questions. Feel free to drop in any time from **6:30pm-8:30pm** at any of the following:

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If you have any questions or would like to provide input on the study, please feel free to contact me or drop in to any of the PICs.

Have a great day! ☀️

**Stephanie L. Bergman**

MA, ENV SP  
Planner

Direct: 519-675-6614  
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# Welcome! Middlesex Centre Settlement Area Stormwater Master Plan

## Public Information Centre No. 1



Members of the study team are available to answer your questions.

We encourage you to provide input on the study by any of the following:

- Filling out a comment sheet
- Submitting comments through the webmap
- Submitting input directly to the study team
- Noting comments directly on the mapping boards

[www.middlesexcentre.on.ca/stormwater](http://www.middlesexcentre.on.ca/stormwater)

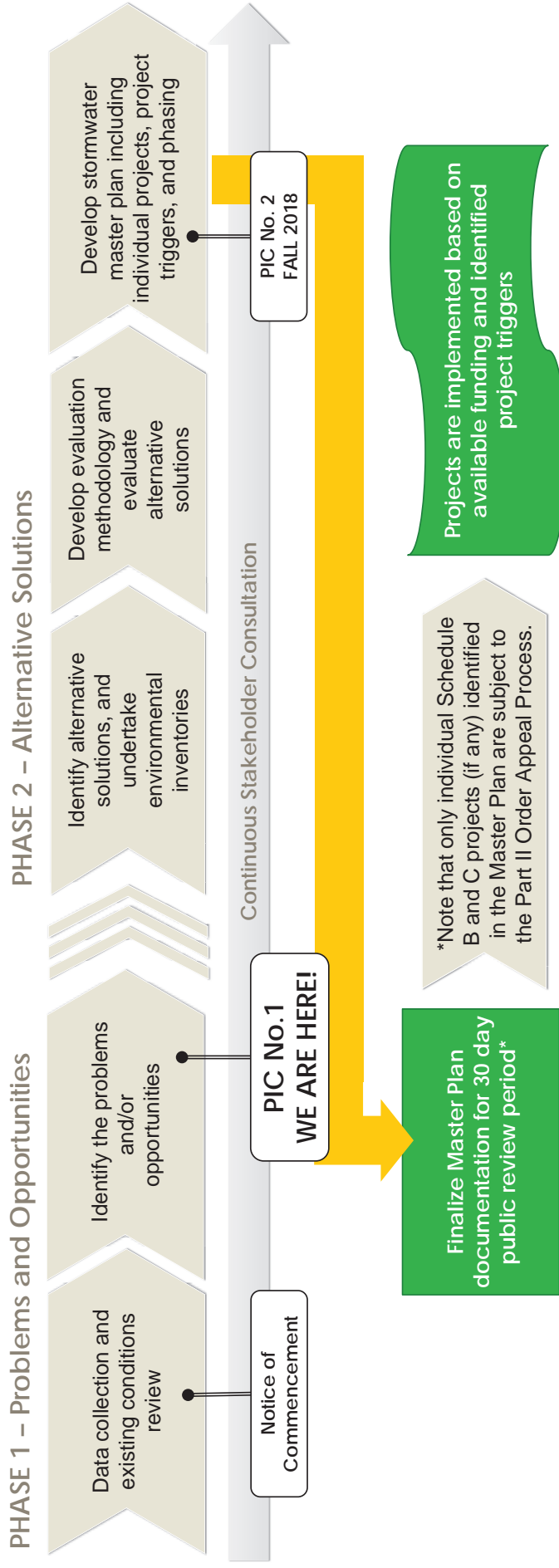
<p><b>Brian Lima, P. Eng.</b> Director, Public Works and Engineering Middlesex Centre lima@middlesexcentre.on.ca</p>	<p><b>Nelson Oliveira, P. Eng.</b> Project Manager Stantec Consulting Ltd. nelson.oliveira@stantec.com</p>
<p><b>Dan Anderson</b> Drainage Coordinator Middlesex Centre anderson@middlesexcentre.on.ca</p>	<p><b>Nick Emery, P. Eng.</b> Water Resources Engineer Stantec Consulting nick.emery@stantec.com</p>
<p><b>Stephanie Bergman, MA</b> Planner Stantec Consulting Ltd. stephanie.bergman@stantec.com</p>	<p><b>Adam Kristoferson, P. Eng.</b> Water Resources Engineer Stantec Consulting adam.kristoferson@stantec.com</p>





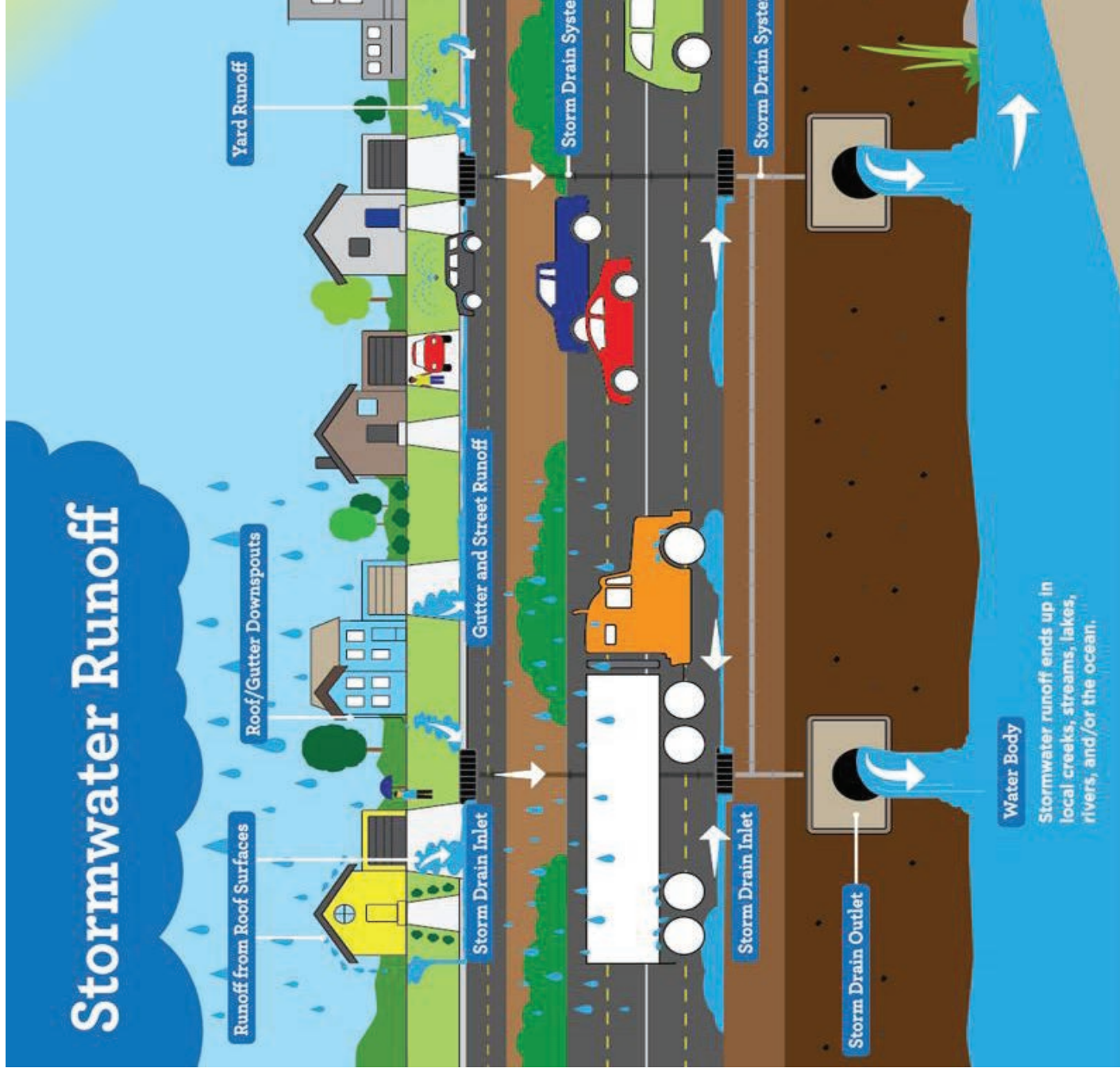
# What is a Stormwater Master Plan?

- A long range planning tool that integrates infrastructure requirements with Environmental Assessment (EA) Planning Principles, and completes Phase 1 and 2 of the Class EA process (see below). The study will be addressing requirements for individual Schedule A, A+, and B projects identified within the Master Plan.
- A system-wide approach to identify needs, opportunities, and to develop a framework for implementing individual projects.



# What is Stormwater Management and Why is it Important?

- Rain and melted snow that flows from local properties onto the street and into storm drains. Without stormwater management, runoff would flood communities and roads, cause stream erosion, and impact wildlife habitats.
- Climate change, aging infrastructure, new residential development and other factors put pressure on our stormwater infrastructure. To protect local property and the environment, improvements to stormwater infrastructure may be necessary.
- Guidelines and regulations associated with stormwater management are evolving and there is a greater focus on Green Infrastructure and Low Impact Development measures.





# Phase 1: Problems and Opportunities

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What kind of issues will the study be addressing?

The Master Plan shall assess the existing drainage conditions throughout the settlement areas and develop an environmentally sound and sustainable strategy for addressing existing issues and accommodating future growth. The objective is to develop a Master Plan for the identified settlement areas that balances the following responsibilities:

- Reduce negative impacts of flooding on properties;
- Provide adequate stormwater treatment;
- Minimize stormwater servicing costs; and
- Protect the natural environment.



While properly functioning storm drainage infrastructure is crucial in protecting property from flood damage and may help mitigate lot-level drainage issues, the Master Plan will not be specifically addressing certain lot-level concerns such as high groundwater (i.e. sump pumps running continually).

# Definitions

There are a number of different elements to the Municipality's stormwater infrastructure system. Here are a few useful definitions:

**Minor Systems** are designed to convey flows from more frequent and less intense storm events. The minor system includes storm sewers, street gutters, and catchbasins.

**Major System** refers to the system in which water flows during a major storm event when the capacity of the minor system is exceeded. The major system includes features such as roads, curbs and gutters, swales, and major drainage channels.

**End-of-Pipe Controls** typically involve multi-purpose stormwater management facilities (SWMFs) which address objectives relating to water quality, erosion control, and peak flow control. SWMFs include wet and dry ponds, wetlands, oil/grit separators, etc.



**Municipal Drains** are storm drainage systems (swales, ditches, drainage channels, etc.) which are typically constructed to service rural or agricultural lands, but may still be present within existing residential areas. Under the Ontario *Drainage Act*, funding for any maintenance activities is provided by all contributing land owners.

**Lot-Level/On-Site Controls** refer to measures that address stormwater before it leaves a site and enters the storm sewer system. This includes reduced lot grading, redirection of roof downspouts, infiltration beds, and other site design considerations such as porous concrete. This also includes **Low Impact Development (LIDs)**, which mimic natural processes to manage stormwater. Examples of LIDs include rain gardens, rain harvesting, vegetated roofs, bioswales, or



Stormwater Outfall

**Outfalls/Outlets** are the points at which stormwater discharges from a storm sewer or other conveyance system, usually into a creek, stream, or river.



Example of a vegetated bioswale

# Phase 2 Existing Drainage Conditions and Key Issues

The existing infrastructure system throughout the settlement areas consists of a combination of storm sewers, Municipal Drains, Stormwater Management Facilities (SWMFs), and outlets. The existing drainage systems, along with **key issues** within each settlement area are shown on the **accompanying maps**. Key Issues are discussed below:

Surface Flooding	Future Development	Municipal Drains	Conveyance System Issues	Outlet Availability
<ul style="list-style-type: none"><li>• Includes minor nuisance flooding and more extensive flooding that could pose a risk to property</li><li>• Potential causes of flooding include maintenance issues (infrastructure prone to clogging), site grading, or undersized infrastructure.</li><li>• Areas of potential flooding were determined based on public input received, topography, as built drawings, and site reconnaissance.</li></ul>	<ul style="list-style-type: none"><li>• It is important to ensure there is a plan for accommodating future development into the stormwater infrastructure system to reduce upstream and downstream issues.</li><li>• Areas of future development are approximate, and were identified based on existing land use designations within the Middlesex Centre Official Plan.</li></ul>	<ul style="list-style-type: none"><li>• By law, funding for Municipal Drains are assessed to the contributing landowners.</li><li>• With the implementation of the Municipality's Stormwater Management Rate, existing Municipal Drains may be abandoned and accommodated into the municipal infrastructure system.</li></ul>	<ul style="list-style-type: none"><li>• This may include undersized storm sewers, low points with no surface outlet, or other issues within the conveyance system.</li></ul>	<ul style="list-style-type: none"><li>• By law, stormwater must be conveyed/discharged into a Municipal Drain or watercourse.</li><li>• It is important to ensure that legal outlets are available to reduce the potential for upstream and downstream impacts.</li></ul>

# Next Steps

- Please fill out a comment sheet or submit comments through the webmap for this stage in the project by **Monday May 28th 2018.**
- The team will develop alternative strategies for addressing the key issues within the settlement areas, including:
  - Requirements for new SWM facilities and potential locations;
  - Conveyance system requirements;
  - Outlet strategies
- Environmental inventories will be conducted in accordance with the Class EA planning process to identify impacts of the proposed strategies.
- **PIC No. 2** will be held in the Fall to present alternative SWM solutions and the draft Master Plan.
- The Master Plan will be documented and will be made available for the statutory public review period.



PHASE 2 – Alternative Solutions and Preparation of Master Plan



**[www.middlesexcentre.on.ca/stormwater](http://www.middlesexcentre.on.ca/stormwater)**



**Middlesex Centre Settlement Area Stormwater Master Plan  
Municipal Class Environmental Assessment**



**Public Information Centre #1**

Thursday May 10<sup>th</sup>, 6:30pm-8:30pm  
Bryanston Community Centre

**PLEASE SIGN IN TO STAY UPDATED ON STUDY PROGRESS**

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**Middlesex Centre Settlement Area Stormwater Master Plan  
Municipal Class Environmental Assessment**



**Public Information Centre #1**  
Monday May 7<sup>th</sup>, 6:30pm-8:30pm  
Komoka Wellness and Recreation Centre

**PLEASE SIGN IN TO STAY UPDATED ON STUDY PROGRESS**

NAME	ADDRESS	POSTAL CODE	PHONE NUMBER	EMAIL
[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]



**Middlesex Centre Settlement Area Stormwater Master Plan  
Municipal Class Environmental Assessment**

**Public Information Centre #1**

Tuesday May 8<sup>th</sup>, 6:30pm-8:30pm  
Ilderton Community Centre



**PLEASE SIGN IN TO STAY UPDATED ON STUDY PROGRESS**

NAME	ADDRESS	POSTAL CODE	PHONE NUMBER	EMAIL
mi	[Redacted]	[Redacted]	[Redacted]	[Redacted]
Ken	[Redacted]	[Redacted]	[Redacted]	[Redacted]
IDE	[Redacted]	[Redacted]	[Redacted]	[Redacted]
Deb	[Redacted]	[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
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[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]

From: [Emery, Nick](#)  
To: [Bergman, Stephanie](#); [Kristoferson, Adam](#)  
Cc: [Oliveira, Nelson](#)  
Subject: RE: Middlesex PICs  
Date: Monday, May 14, 2018 10:57:00 AM

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#### Komoka/Kilworth Meeting

Resident – Owner of agricultural parcel located east of Komoka Road and north of CPR tracks ( [REDACTED] Komoka Road?)

- Noted concerns with capacity of Franks Drain;
- Noted concerns with proposed development on west side of Komoka Road, south of CPR tracks – opined that future development would flood;
- Noted frequent flooding on her property north of CPR tracks due to size of culvert crossings;
- Noted that there are two culverts through the CPR embankment adjacent to her property;
- Resident noted she had implemented conservation practices that reduce downstream runoff: parcel is not cultivated, tree planting performed, low area naturalized with cattails;
- Noted opposition to proposed Black property development;
- Noted opposition to beaver trapping in Komoka Provincial Park;
- Stantec asked resident to complete a comment form to document her concerns.

Resident – Owners of pond that provides outlet to Tunks Drain ( [REDACTED] Komoka Road?)

- Concerned that proposed works would divert more water to existing outlet;
- Opposed installation of Tunks Drain outlet;
- When asked, there are no concerns with operation of Tunks Drain outlet;
- Concern with cost of stormwater fees assessed to their property;
- Property is located within the settlement area, but stormwater fees are not currently assessed – property is within a Special Policy Area.

#### Ilderton Meeting

Jim Reeve – Former MOMC Drainage Superintendent

- Noted locations of existing municipal drains in each settlement area and identified several areas with capacity issues;
- Noted that several Middlesex County culverts have been sliplined, which has affected the culvert inverts;
- Offered to answer future questions through Dan Anderson.

Resident – Ilderton Road east of Hyde Park

- Noted runoff from right-of-way crosses sidewalk and enters side yard.

#### **Nick Emery**

P.Eng.

Water Resources Engineer

Direct: 519-675-6619

Fax: 519-645-6575

Stantec Consulting Ltd.

600-171 Queens Avenue

London ON N6A 5J7 CA

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---

**From:** Bergman, Stephanie

**Sent:** Monday, May 14, 2018 9:50 AM

**To:** Kristoferson, Adam <Adam.Kristoferson@stantec.com>; Emery, Nick <nick.emery@stantec.com>

**Cc:** Oliveira, Nelson <nelson.oliveira@stantec.com>

**Subject:** Middlesex PICs

Hi guys – If you wouldn't mind taking five minutes and summarizing any comments/input that you received during the PICs last week it would be appreciated.

Thanks,

**Stephanie L. Bergman**

MA, ENV SP  
Planner

Direct: 519-675-6614

Fax: 519-645-6575

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## NOTICE OF PUBLIC INFORMATION CENTRES

### Background

Development throughout Middlesex Centre has historically been piecemealed, and has led to a fragmented stormwater management system that is made up of a combination of Municipal Drains and municipal storm sewers. In order to develop a plan for effectively managing stormwater infrastructure for existing areas and to accommodate future growth, the Municipality is developing a Stormwater Master Plan.



### The Master Planning Process

The Master Plan is being undertaken in accordance with the Municipal Class Environmental Assessment process (Municipal Engineers Association 2000, as amended in 2007, 2011, and 2015). The Master Plan will consider all aspects of the environment in order to develop a holistic plan for managing this important asset. The Master Plan will be an important resource for the Municipality as it continues to adapt to growth and changing environmental conditions and regulations. The study area for the Master Plan will include the settlement areas of Arva, Birr, Ballymote, Coldstream, Denfield, Ilderton, Kilworth, Komoka, Melrose, Poplar Hill, Bryanston and Lobo. A Stormwater Master Plan has previously been completed for the community of Delaware in 2016.



### How can I get involved?



A series of Public Information Centres were held in the Spring of 2018 to introduce the study and an online webmap was created to obtain input on existing drainage conditions and concerns. Input has been considered along with technical, natural, socio-economic, and cultural impacts of alternative solutions, and a draft Master Plan has been developed.

The second round of Public Information Centres (PICs) are being held to present the draft Master Plan recommendations for review and comment. Feel free to drop in at any of the following PICs:

**Monday March 4th**  
**6:00pm-8:00pm**



London Life Room, Komoka Wellness and Recreation Centre, 1 Tunks Ln, Komoka

**Tuesday March 5<sup>th</sup>**  
**6:00pm-8:00pm**



Ilderton Community Centre, 13168 Ilderton Rd, Ilderton

**Wednesday March 6<sup>th</sup>**  
**6:00pm-8:00pm**



Bryanston Community Centre, 15321 Plover Mills Rd RR 3, Ilderton

Information presented at the PIC will be made available on the study's website following the PIC (<https://www.middlesexcentre.on.ca/Public/Stormwater>). We encourage residents to attend the PIC to learn more about stormwater servicing throughout the Municipality. Visit the link or contact a member of the study team below for more information or to be added to the study's mailing list to receive future updates. We look forward to seeing you at the PICs!

Dan Anderson,  
Drainage  
Municipality of Middlesex Centre  
(519) 666-0190 Ext. 229  
anderson@middlesexcentre.on.ca

Stephanie Bergman, MA,  
Planner  
Stantec Consulting Ltd.  
519-675-6614  
stephanie.bergman@stantec.com



# Welcome! Middlesex Centre Settlement Area Stormwater Master Plan

## Public Information Centre No. 2



Members of the study team are available to answer your questions.

[www.middlesexcentre.on.ca/stormwater](http://www.middlesexcentre.on.ca/stormwater)

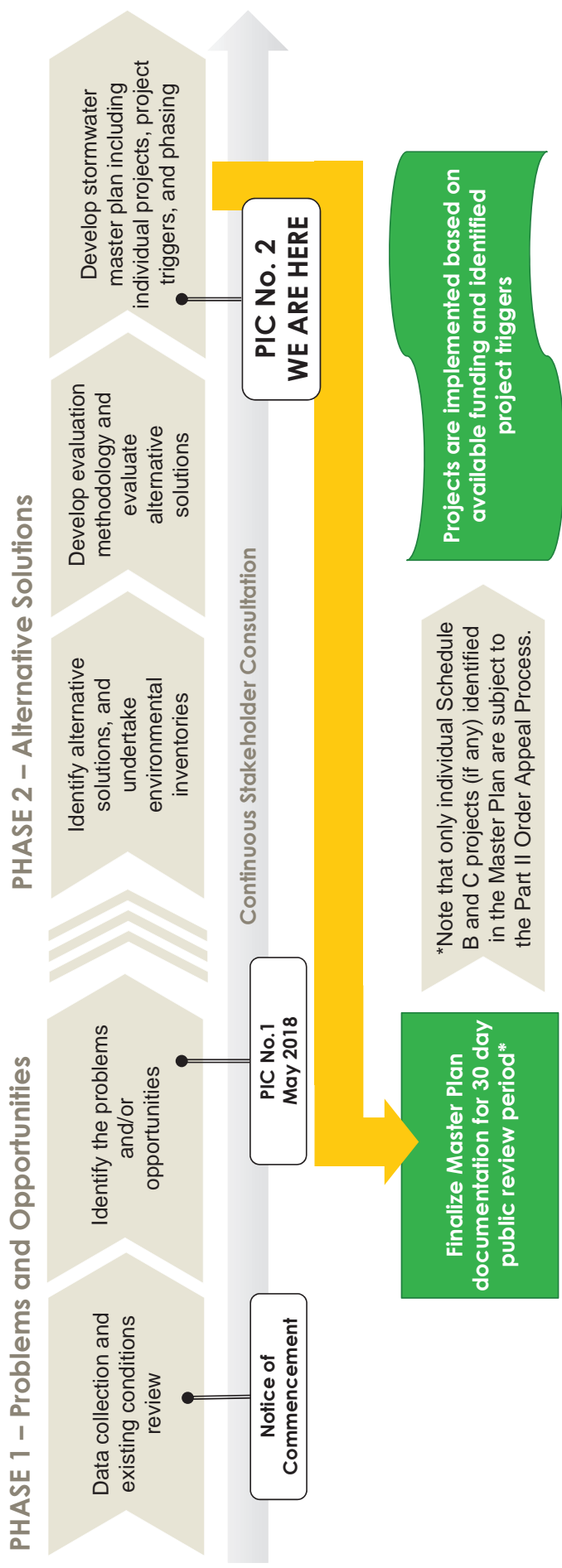
<p><b>Stephanie Bergman, MA</b> Planner Stantec Consulting Ltd. <a href="mailto:stephanie.bergman@stantec.com">stephanie.bergman@stantec.com</a></p>
<p><b>Nick Emery, P. Eng.</b> Water Resources Engineer Stantec Consulting <a href="mailto:nick.emery@stantec.com">nick.emery@stantec.com</a></p>
<p><b>Dan Anderson</b> Drainage Coordinator Middlesex Centre <a href="mailto:anderson@middlesexcentre.on.ca">anderson@middlesexcentre.on.ca</a></p>





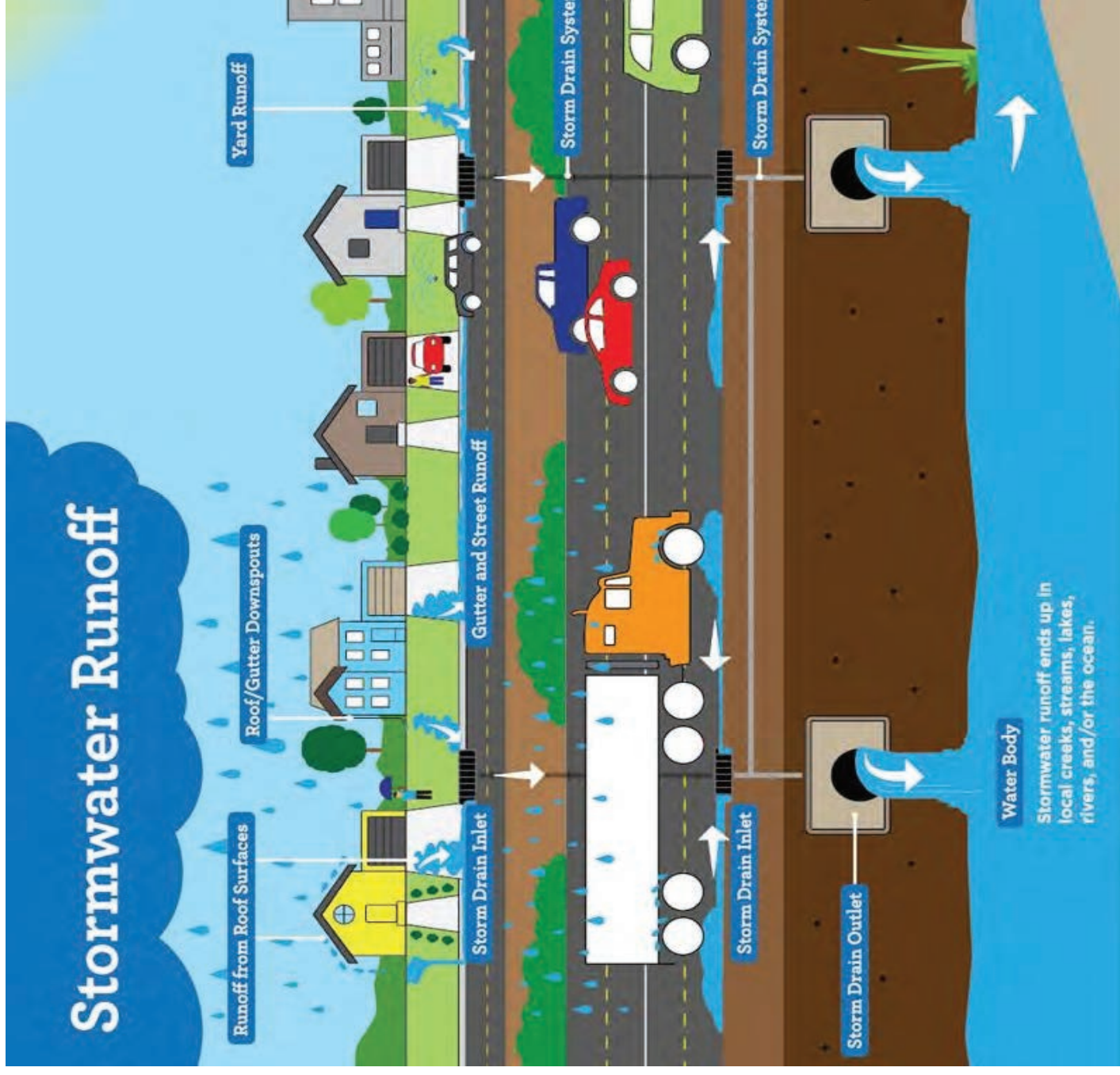
# What is a Stormwater Master Plan?

- A long range planning tool to provide a framework for future development and stormwater management infrastructure.
- Follows Phases 1 and 2 of the Municipal Class Environmental Assessment process



# What is Stormwater Management and Why is it Important?

- Rain and melted snow that flows from local properties onto the street and into storm drains. Without stormwater management, runoff would flood communities and roads, cause stream erosion, and impact wildlife habitats.
- Climate change, aging infrastructure, new residential development and other factors put pressure on our stormwater infrastructure. To protect local property and the environment, improvements to stormwater infrastructure may be necessary.
- Guidelines and regulations associated with stormwater management are evolving and there is a greater focus on Green Infrastructure and Low Impact Development measures.





# What We've Heard So Far

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We've heard from at least 44 property owners. Comments/concerns include the following:

- Flooding or standing water on properties after rain events or snow melts (15 people)
- Improperly functioning catch basins, or swales (11 people)
- Run off water and/or overland flow concerns relating to erosion (3 people)
- Basement flooding or sump pump concerns (7 people)
- General project inquiry (8 people)

## How we've heard it



PIC 1 (May 7, 8, 9, 2018)

Online webmap

Emails

Phone calls



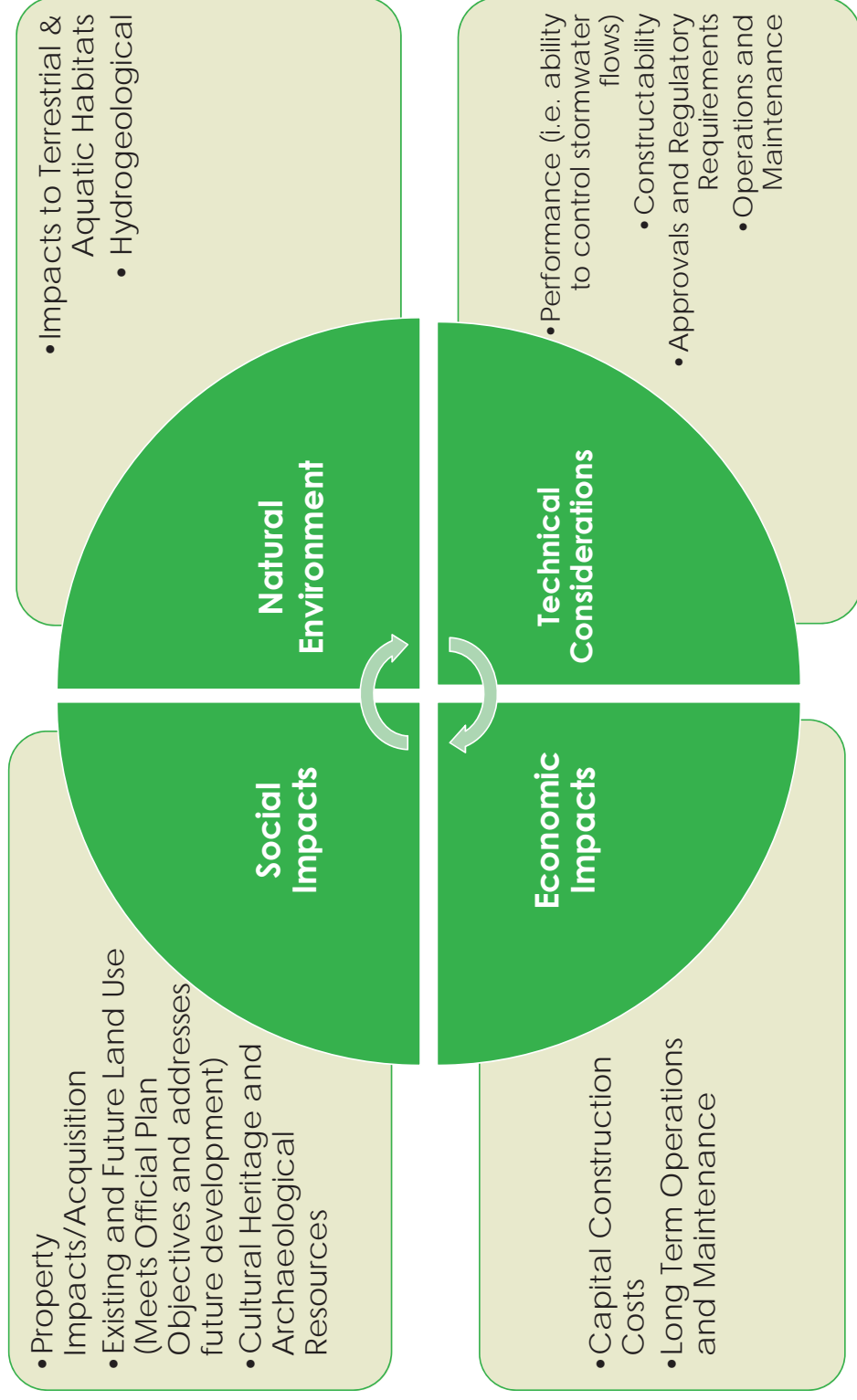
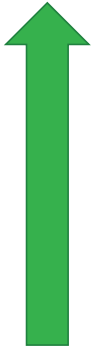
# Phase 2 Existing Drainage Conditions and Key Issues

The existing infrastructure system throughout the settlement areas consists of a combination of storm sewers, Municipal Drains, Stormwater Management Facilities (SWMFs), and outlets. The existing drainage systems, along with **key issues** within each settlement area are shown on the **accompanying maps**. Key Issues are discussed below:

Surface Flooding	Future Development	Municipal Drains	Conveyance System Issues	Outlet Availability
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# Evaluation Criteria

Alternative solutions are being evaluated based on the following general criteria

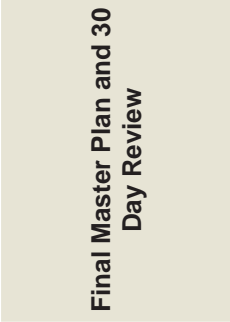


# Next Steps

PHASE 2



- Please fill out a comment sheet or contact a member of the team with comments by **Friday March 22, 2019**.
- Finalize evaluation of alternative solutions.
- Finalize recommended solutions.
- Identify project triggers and recommended phasing strategy.



- Make Master Plan documentation available for the statutory 30-day public review period.

[www.middlesexcentre.on.ca/stormwater](http://www.middlesexcentre.on.ca/stormwater)





**Middlesex Centre Settlement Area Stormwater Master Plan  
Municipal Class Environmental Assessment**

**Public Information Centre #2**

Wednesday March 6, 6pm-8pm  
Bryanston Community Centre



**PLEASE SIGN IN TO STAY UPDATED ON STUDY PROGRESS**

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**Middlesex Centre Settlement Area Stormwater Master Plan  
Municipal Class Environmental Assessment**

**Public Information Centre #2**

Tuesday March 5<sup>th</sup>, 6pm-8pm  
Ilderton Community Centre



**PLEASE SIGN IN TO STAY UPDATED ON STUDY PROGRESS**

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**Middlesex Centre Settlement Area Stormwater Master Plan  
Municipal Class Environmental Assessment**



**Public Information Centre #2**  
Tuesday March 5<sup>th</sup>, 6pm-8pm  
Illderton Community Centre

**PLEASE SIGN IN TO STAY UPDATED ON STUDY PROGRESS**

NAME	ADDRESS	POSTAL CODE	PHONE NUMBER	EMAIL
[Redacted]				
[Redacted]				



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To:	Stephanie Bergman London ON Office	From:	Nick Emery London ON Office
File:	165630134	Date:	April 5, 2019

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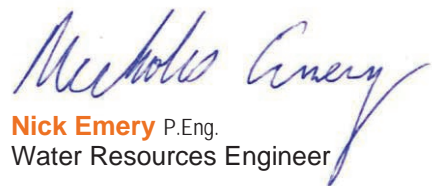
**Reference: April 4, 2019 Site Visit - Kilworth**

Following the March 5, 2019 PIC, the residents at [REDACTED], Ilderton contacted Stantec to discuss surface water and basement flooding concerns. The following points outline the discussion and observations:

- Several sanitary backups have occurred into the home, resulting in basement flooding;
- A sanitary backup has occurred following the installation of a backflow preventer;
- The swale on the west side of the home is persistently wet – the sump pump discharges to the swale. Lawn is too wet to mow in the summer. Most recent recorded rainfall at London Airport was March 30 – swale had ponded water at time of site visit;
- Sump pumps within the subdivision discharge to surface causing icing on the sidewalks – some residents convey sump pump discharges to the curb using plastic drainage tile;
- Brick driveway is rutted – residents attribute to poor local drainage;
- Residents noted that ponding frequently occurs at the base of the driveway;
- Walkway east of home has been previously replaced due to heaving. Recent asphalt repairs have been completed to eliminate lip caused by heaving;
- Fence posts have been replaced due to rotting/heaving. Decay at base of fence posts was observed;
- Ponding/surface flows occur along rear fence line in the park block.

Site visit photos in project directory here:

V:\01656\active\165630134\preliminary\image\190404 - Ilderton

**Stantec Consulting Ltd.**

**Nick Emery** P.Eng.  
Water Resources Engineer

Phone: 519-675-6619  
Fax: 519-645-6575  
nick.emery@stantec.com

Attachment: Attachment

c. C.C.