

Dallas

I left you a voice message advising that the last week in September will not work for all of the Golder representatives. As such we would like to propose that the meeting (teleconference) be put off to the following week.

Please let us know your availability for the week of Oct 5th-9th.

Regards
Terry

From: Winhold, Terry
Sent: Wednesday, September 23, 2015 6:21 PM
To: dcundick@scrca.on.ca
Cc: Oke, Jessalyn; Ott, Wendy; Schwerzmann, Marc
Subject: Sarnia Bay - Shoreline Rehabilitation

Hello Dallas

As you are aware, Golder is currently working on the Class EA for the Sarnia Bay (Centennial Park) shoreline reclamation project. We have reached the stage where we would like to set up a meeting (teleconference) to discuss alternative concept designs that are being considered. The objective would be to present the concepts to you, get some initial feedback from the SRCA's perspective and answer questions you may have. Golder would be represented on the call by team members prepared to discuss issues related to hydraulic design (flood levels, wave runup, etc), construction methods/timing, and marine wildlife.

If possible we would like to have the call sometime next week (Sept 28 – Oct 2) and would appreciate it if you could get back to us with your availability. Please suggest some time slots that would work for you.

Thanks and look forward to hearing from you.
Terry

Terry Winhold (MEng., P.Eng.) | Senior Water Resources Engineer | **Golder Associates Ltd.**
C: +1 (416) 473-2800 | **E:** Terry.Winhold@golder.com | www.golder.com

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From: [Oke, Jessalyn](#)
To: [Dallas Cundick \(dcundick@scrcr.on.ca\)](mailto:dcundick@scrcr.on.ca); [Ott, Wendy](#); [Schwerzmann, Marc](#); [Winhold, Terry](#); [Joe Boothe](#); [Thevenot, Aurelia](#)
Subject: Sarnia Bay Class Environmental Assessment for Shoreline Protection
Start: Tuesday, October 06, 2015 10:00:00 AM
End: Tuesday, October 06, 2015 11:00:00 AM
Location: Online Meeting

Hello everyone,

The City of Sarnia is conducting a Municipal Class Environmental Assessment (EA) to investigate options for shoreline protection along the southern waterfront of Sarnia Bay in Centennial Park (the Park). The EA is also evaluating the removal of the existing boat ramps and installation of new ramps closer to the existing marina. The purpose of this study is to develop a recommended plan to provide shoreline protection that is necessary for implementation of a clean soil cap at the Park to address historical contaminants in fill material that was used during Park construction.

The purpose of this meeting is to discuss the alternative solutions that are being considered. The objective would be to present the conceptual designs, obtain initial feedback from the St Clair Region Conservation Authorities perspective and to answer questions you may have.

We look forward to discussing this with you.

.....
HYPERLINK "https://meet.golder.com/jessalyn_oke/B4DY79TV" Join online meeting
https://meet.golder.com/jessalyn_oke/B4DY79TV

Join by Phone



Conference ID: 3593562

HYPERLINK "<https://dialin.golder.com>"Forgot your dial-in PIN? | HYPERLINK "<http://r.office.microsoft.com/r/rlidOC10?clid=1033&p1=4&p2=1041&pc=oc&ver=4&subver=0&bld=7185&bldver=0>"First online meeting?
[!OC([1033])!]
.....

From: Oke, Jessalyn
To: [Dallas Cundick \(dcundick@scrca.on.ca\)](mailto:dcundick@scrca.on.ca)
Cc: [Ott, Wendy](#); [Schwerzmann, Marc](#); [Winhold, Terry](#); [Joe Boothe](#); [Thevenot, Aurelia](#)
Subject: Sarnia Bay Class Environmental Assessment for Shoreline Protection
Date: Tuesday, October 06, 2015 9:10:00 AM
Attachments: [1413940-7004-G01002 Shoreline Protection Alternatives.pdf](#)
[1413940-7004-G12001 Boat Launch Alternatives.pdf](#)

Good morning Dallas,

Please find attached the alternative solutions for the City of Sarnia's Class Environmental Assessment for Shoreline Protection along the Sarnia Bay Harbour Front at Centennial Park. These are for discussion during this mornings conference call at 10 am.

Jessie

Jessalyn Oke | Environmental Assessment Coordinator | **Golder Associates Ltd.**

6925 Century Avenue, Suite #100, Mississauga, Ontario, Canada L5N 7K2

T: +1 (905) 567 4444 | **D:** +1 (905) 567 6100 Ext. 1539 | **F:** +1 (905) 567 6561 | **C:** [REDACTED]

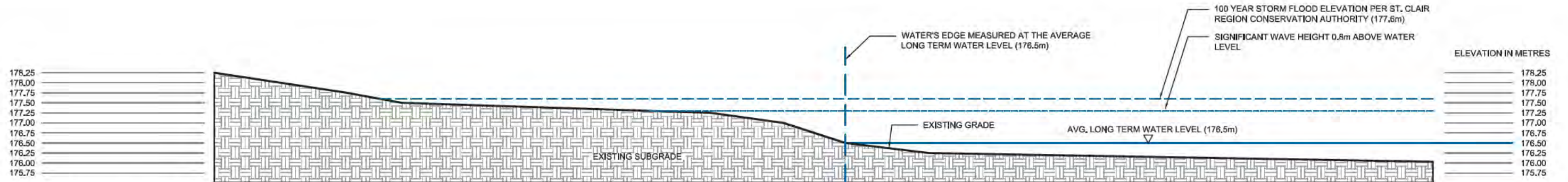
| **E:** Jessalyn_Oke@golder.com | www.golder.com

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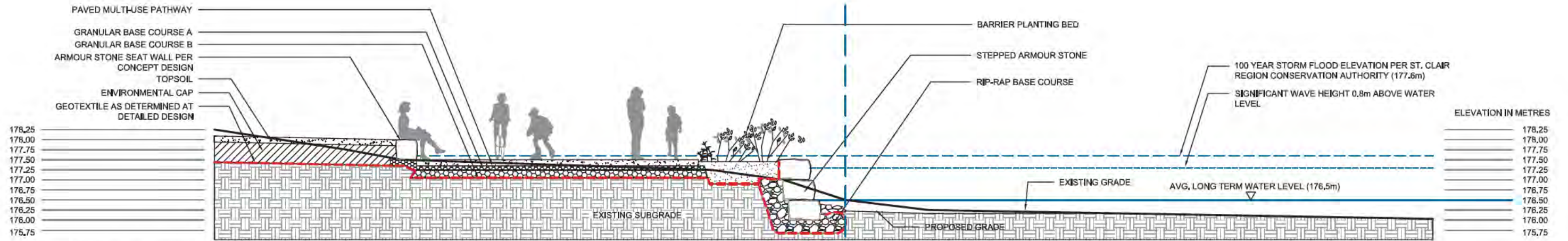
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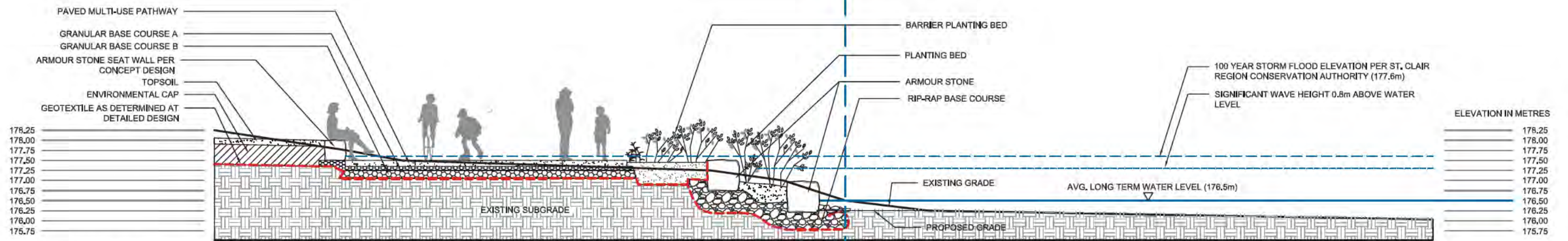
Please consider the environment before printing this email.



ALTERNATIVE 1 - DO NOTHING



ALTERNATIVE 2 - VERTICAL ARMOUR STONE WALL



ALTERNATIVE 3 - TIERED ARMOUR STONE WALL

REFERENCE

DRAWING BASED ON 2013 AERIAL IMAGE BY FIRST BASE SOLUTIONS; MONTETH & SUTHERLAND LIMITED, O.S. SURVEY PLAN, FILE NO. SAR-6854, PLAN FILE NO. E-1422 AND CANMAP STREETFILES V2008.A.

NOTES

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REVISIONS

NO.	DATE	DESCRIPTION
0	AUGUST 14, 2015	SUBMISSION OF REVISED CONCEPT AS PART OF EA

PROJECT
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT STUDY FOR THE PROPOSED SHORELINE PROTECTION OF CENTENNIAL PARK ALONG THE SARNIA BAY HARBOUR FRONT

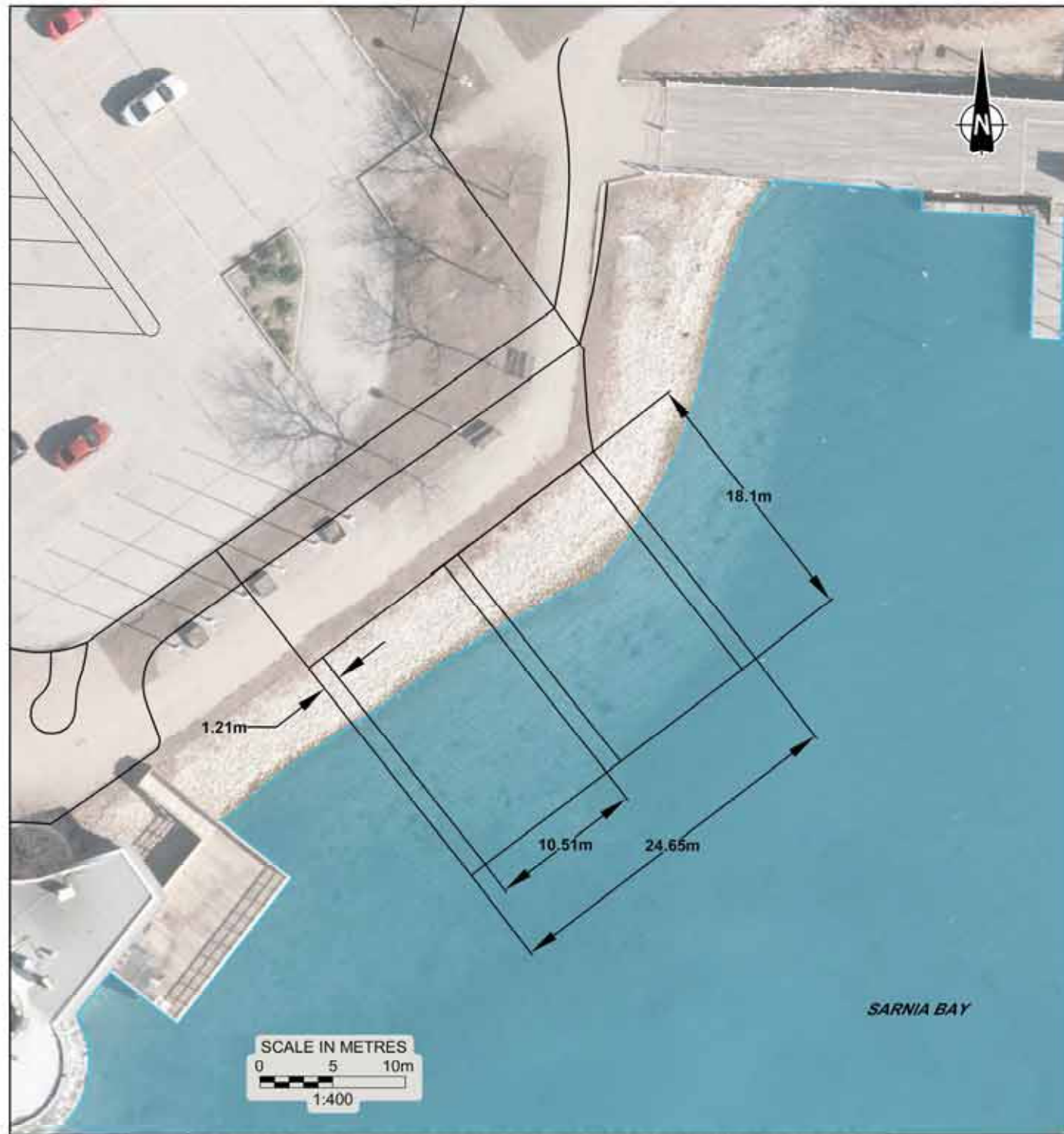
SHORELINE PROTECTION ALTERNATIVES

PROJECT No. 1413940		FILE No. 1413940-01	
CADD EE Aug 12/15		SCALE 1:100	
CHECK DW/JO Aug 14/15		REV.	

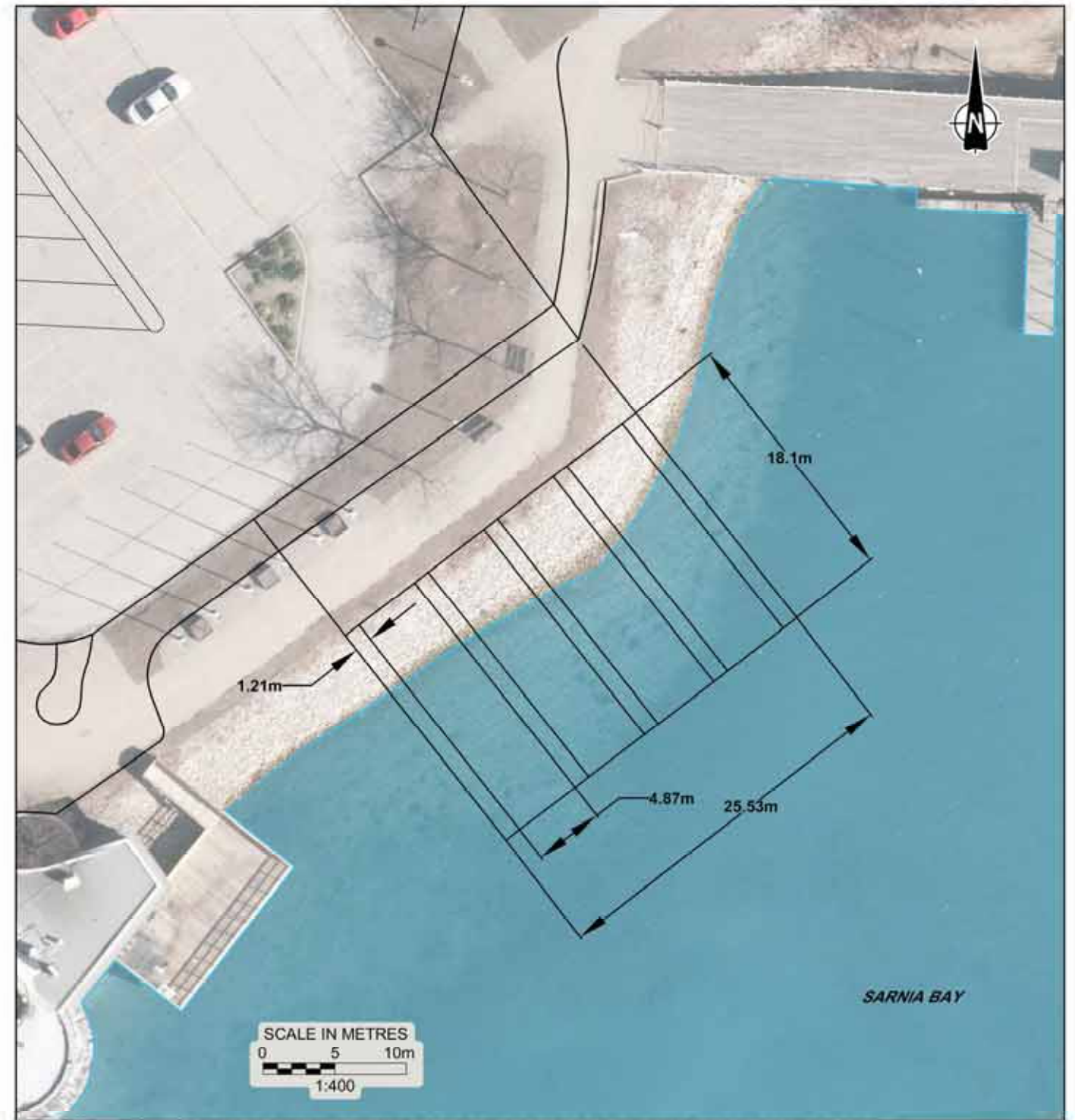


Drawing No. 1413940-01.dwg Aug 10, 2015 3:20pm

Drawing file: 1413940-G12001.dwg Sep 11, 2015 - 3:52pm



ALTERNATIVE 2 - REPLACEMENT BOAT LAUNCH WITH TWO RAMPS




ALTERNATIVE 3 - REPLACEMENT BOAT LAUNCH WITH FOUR RAMPS

REFERENCE

DRAWING BASED ON 2013 AERIAL IMAGE BY FIRST BASE SOLUTIONS.

NOTES

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PROJECT			
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT STUDY FOR THE PROPOSED SHORELINE PROTECTION OF CENTENNIAL PARK ALONG THE SARNIA BAY HARBOUR FRONT			
TITLE			
BOAT LAUNCH ALTERNATIVES			
PROJECT No.		1413940	FILE No.
			1413940-G12001
SCALE		AS SHOWN	REV.
CADD	DCH	Sept 11/15	
CHECK			
			FIGURE 1

From: [Bryan Prouse](#)
To: [Oke, Jessalyn](#)
Cc: [Joe Boothe](#); [Ott, Wendy](#)
Subject: FW: Class EA for Centennial Park shoreline Oct 14 2015 comments
Date: Thursday, October 15, 2015 3:30:55 PM
Attachments: [Class EA for Centennial Park shoreline Oct 14 2015 comments.docx](#)




Jessie,

I received the attached comments from Nancy Bourgeois from the City's Planning Dept. Nancy did stop by but I'm not sure if she signed the register.

Bryan

 **Bryan Prouse**
Manager, Operation Services

City of Sarnia
651 Devine Street
Sarnia, ON N7T 1W9
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From: Nancy Bourgeois
Sent: October 15, 2015 11:02 AM
To: Bryan Prouse
Subject: Class EA for Centennial Park shoreline Oct 14 2015 comments

Hi Bryan, I put together a few comments following the Oct. 14, 2015 Public Information Centre for the Centennial Park shoreline Municipal Class EA. Nancy

Municipal Class Environmental Assessment
Shoreline Protection of Centennial Park – Sarnia Bay Waterfront

Public Information Centre #1 – October 14, 2015

Comments:

1. Should additional evaluation criteria be considered or should any of the presented evaluation criteria be modified?

-The Centennial Park site does not contain significant woodlands, wetlands or ANSIs. Unless there is a particular reason for the PPS natural heritage evaluation criteria being included, it is suggested that they be removed (E.g. If a woodland feature is not present at the site, how can it be protected?).

Supportive of these types of criteria:

- establish a well-connected shoreline trail network,
- accessibility features included
- low maintenance
- beautifies the natural environment and park system
- supportive of fish habitat
- respects nature (e.g. wave action, ice)
- safe for children
- will not contribute to drowning deaths
- does not hinder park functions
- cost-effective over the long-term
- ability to bring in heavy equipment, if needed, for future maintenance work
- good design in relation to other infrastructure
- consider public festivals
- don't just replace what we have, find ways to make the new design more useful in many respects (art, shoreline protection, usable public spaces, safe, accessible, multi-purpose, affordable, integrate cultural monuments in reconstruction, etc.)
- consider Phragmites management along the shoreline
- are there better design options for new boat ramps (e.g. ski-doos, rowing boats, ice fishers, various types and sizes of boats, accessibility features).

2. Are there any specific considerations that should be accounted for when considering the alternatives for shoreline protection at Centennial Park?

- Will the site have on-going monitoring wells or devices?

- What is the nature of the contamination? E.g. Although it may be contained at this time, how will contaminants behave in the future? Will they liquefy (break down by bacterial action) and migrate through sediment or groundwater?
- Will the shoreline protective works need to integrate structures for containment of contaminants?
- What types of materials are recommended for the Bay?

3. Do you have any other comments on the information presented at this Public Information Centre or the project in general?

- For future meetings, suggest a short presentation by City staff and/or the consultant, for the benefit of the public, followed by question & answer period, and then an open house format. This will allow members of the public to better understand the process and how they can provide meaningful comment (or not).
- Are there funding opportunities that could be explored for this site?
 - Environment Canada (Delisting of the St. Clair River Area of Concern)
 - Friends of the St. Clair River
 - County of Lambton (ask their grant person)
 - St. Clair Region Conservation Authority
 - Local industry
 - Bluewater Trails
 - Grant opportunities?

From: [Joe Boothe](#)
To: [Oke, Jessalyn](#)
Cc: [Ott, Wendy](#); [Schwerzmann, Marc](#); [Bryan Prouse](#); [Andre Morin](#)
Subject: Fw: Sarnia Bay EA: Heritage Checklist
Date: Thursday, October 15, 2015 5:13:46 PM

Jessie

Please see below. If further clarification is needed please let us know.

Joe

Sent from my BlackBerry 10 smartphone on the Bell network.

From: Kevin Edwards <kevin.edwards@sarnia.ca>
Sent: Thursday, October 15, 2015 09:25
To: Joe Boothe
Cc: [Andre Morin](#); [Bryan Prouse](#); [Nancy Bourgeois](#); [Max Williams](#); [Jane Cooper](#)
Subject: RE: Sarnia Bay EA: Heritage Checklist

Joe,

The submitted checklist is correct in that the features are not of heritage value or interest for the purposes of the Heritage Act. None are included as designated properties under the Act or are on the City's registrar that identifies potential resources of value or interest. As such, no Heritage Impact Assessment would be required.

However, Nancy is also correct in noting that the memorial features are of importance to the community. While no HIA is required, we would expect that particular care will be taken to ensure the memorials and their attributes are considered through the detailed design process. Planning is most willing to help with that in any way possible.

Regards,
Kevin

From: Joe Boothe
Sent: October-15-15 9:02 AM
To: Kevin Edwards
Cc: [Andre Morin](#); [Bryan Prouse](#)
Subject: Fw: Sarnia Bay EA: Heritage Checklist

Please clarify

Joe

Sent from my BlackBerry 10 smartphone on the Bell network.

From: Oke, Jessalyn <Jessalyn_Oke@golder.com>

Sent: Thursday, October 15, 2015 08:41
To: Joe Boothe
Cc: Bryan Prouse; Andre Morin; Ott, Wendy; Schwerzmann, Marc
Subject: RE: Sarnia Bay EA: Heritage Checklist

Hi Joe,

I quickly mentioned built and cultural heritage to Bryan last night at the Public Information Centre for the Sarnia Bay Project regarding the need to resolve the heritage value of the memorial features location within the shoreline of Centennial Park. As noted below, previous correspondence with the City had indicated that the memorial features are of heritage value; however, the results of the *Criteria for Evaluating Potential for Built Heritage Resources and Cultural Heritage Landscapes* checklist indicate there are no features of heritage value or interest in the study area. Last we spoke about this was during the Project status call on September 8, at which point the City was working through resolving. Has there been progress on this matter?

Please note that should the memorial features be determined to be of cultural value, a Heritage Impact Assessment will be necessary.

Jessie

Jessalyn Oke | Environmental Assessment Coordinator | **Golder Associates Ltd.**
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From: Oke, Jessalyn
Sent: Thursday, August 06, 2015 3:25 PM
To: 'Joe Boothe'
Cc: Bryan Prouse; Andre Morin; Ott, Wendy; Schwerzmann, Marc
Subject: Sarnia Bay EA: Heritage Checklist

Hi Joe,

Thank you for the completed checklists. The results will be summarized within the Environmental Study Report (ESR), with the full checklists attached as an appendix.

Please note that correspondence from Nancy Bourgeois of the City's Environmental Advisory Committee was received on July 21 (attached) and identified that "the monuments in the Park would be of heritage value". However, the results of the completed *Criteria for Evaluating Potential for Built Heritage Resources and Cultural Heritage Landscapes* checklist indicate there are no features of heritage value or interest in the study area. We wanted to raise the July 21 communications to your attention to confirm

the results of the checklist since stakeholders could identify this as an inconsistency during the 30-day public review of the ESR.

If the three monuments located within the study area (i.e., VOC memorial, VOC memorial fountain and Footstep flagstones) are not of heritage value as per the results of the checklist, it may be in the City's best interest to indicate the rationale for this in a response to the July 21 email for inclusion in the record of consultation that will be appended to the ESR. However, if the City agrees with the Environmental Advisory Committee's determination that the monuments are of heritage value, checklist Question 4a would be 'yes' and a Heritage Impact Assessment would be necessary. Golder would be happy to complete this assessment and, upon your request, prepare a scope of work for your approval.

I am available by cell phone if you would like to discuss.

Jessie

Jessalyn Oke | Environmental Assessment Coordinator | **Golder Associates Ltd.**

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| **E:** Jessalyn_Oke@golder.com | www.golder.com

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From: Joe Boothe [<mailto:joe.boothe@sarnia.ca>]

Sent: Friday, July 31, 2015 2:21 PM

To: Oke, Jessalyn

Cc: Bryan Prouse; Andre Morin

Subject: Fw: Surveys

Jessie

As requested, please see attached

Joe

Joe Boothe
Superintendent, Environmental Services
City of Sarnia
2100 Confederation Line
Sarnia, ON N7T 7H3



Phone: 519-332-0527ext 3590
Fax: 519-337-0736
www.samia.ca



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Oke, Jessalyn

From: Dallas Cundick <dcundick@scrca.on.ca>
Sent: Thursday, October 15, 2015 3:41 PM
To: Winhold, Terry
Subject: RE: Confirmation of Flood Levels: Sarnia Bay-Centennial Park
Attachments: Great_Lakes_System_Flood_Levels_and_Water_Related_Hazards_MNR_1989.pdf

Hi Terry,

Please see the attached.

The 100 year Peak Instantaneous Water Level (m) G.S.C. at the subject location is 177.6 m.

Dallas

From: Winhold, Terry [mailto:Terry_Winhold@golder.com]
Sent: October-07-15 1:43 PM
To: Dallas Cundick <dcundick@scrca.on.ca>
Cc: Ott, Wendy <Wendy_Ott@golder.com>; Thevenot, Aurelia <Aurelia_Thevenot@golder.com>
Subject: Confirmation of Flood Levels: Sarnia Bay-Centennial Park

Dallas

Just following up on yesterday's call.

Please confirm which of the two following flood level's should be used in design in the proposed shoreline protection works and/or clarify their purpose.

1. 1:100 year flood level (177.6m) provided by SCRCA (July 2014)
2. 1:100 year flood level (178.3m) from City of Sarnia Official Plan (2014)

Thanks
Terry

Terry Winhold (MEng., P.Eng.) | Senior Water Resources Engineer | **Golder Associates Ltd.**
C: +1 (416) 473-2800 | **E:** Terry_Winhold@golder.com | www.golder.com

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Please consider the environment before printing this email.

From: [Newton, Craig \(MOECC\)](#)
To: [Oke, Jessalyn](#)
Subject: Municipal Class EA - Shoreline Protection in Sarnia Bay
Date: Monday, October 19, 2015 10:41:15 AM

Jessalyn:

Thank you for your voice mail of sometime last week. I missed your call as I was on a week of vacation.

In response to your voice mail, I propose you and/or the City of Sarnia draft a draft agenda for the proposed teleconference, send it to me, along with the anticipated length of the teleconference, whom will be participating, and I can then determine based upon the agenda items, whether my participation is sufficient, or whether I need to ask additional MOECC technical staff to join in as well.

If you could also provide a list of suggested dates, and times, I could also check internally as to staff availability, that is if additional MOECC staff are needed.

Thanks in advance Jessalyn, and have a great day.

Craig Newton
Regional Environmental Planner / Regional EA Coordinator
Ministry of the Environment & Climate Change
Southwestern Region
(519) 873-5014

From: Oke, Jessalyn
To: "Newton, Craig (MOECC)"
Cc: Joe Boothe; bryan.prouse@sarnia.ca; Ott, Wendy
Subject: RE: Municipal Class EA - Shoreline Protection in Sarnia Bay
Date: Monday, October 19, 2015 3:45:00 PM

Hi Craig,

Thank you for responding so quickly to my voice mail. The City of Sarnia and Golder Associates would like to hold a 30 minute conference call with the Ministry to discuss notification requirements of mandatory points of contact for Schedule 'C' Class Environmental Assessments (EA). The City of Sarnia is conducting a Schedule 'C' Class EA to investigate shoreline protection options along the southern waterfront of Sarnia Bay in Centennial Park as well as the removal of the existing boat ramps and installation of new ramps closer to the existing marina (the Project).

The first Public Information Centre for the Project was held at City Hall on October 14, 2015. The Notice for this event was mailed to key stakeholders and members of the public who might reasonably have an interest in the Project, and it was also advertised in the local newspaper. We understand that two published notices are required for all mandatory points of contact as per the Municipal Engineer Association Class EA guide. The Notice for this event was advertised once in the local newspaper, as such we would like to discuss this contact with the Ministry to obtain guidance and advice for moving forward.

We are available to discuss Monday through Friday of this week. We would like to discuss at your earliest convenience in case immediate actions are necessary. We kindly ask that you identify meeting times/dates that work best for yourself and others at the Ministry, as appropriate. If additional MOECC technical staff will be joining the conference call, please provide their contact details for inclusion on the meeting invite.

Many thanks and we look forward to discussing with you further,
Jessalyn Oke

Jessalyn Oke | Environmental Assessment Coordinator | **Golder Associates Ltd.**
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From: Newton, Craig (MOECC) [<mailto:Craig.Newton@ontario.ca>]
Sent: Monday, October 19, 2015 10:42 AM
To: Oke, Jessalyn
Subject: Municipal Class EA - Shoreline Protection in Sarnia Bay

Jessalyn:

Thank you for your voice mail of sometime last week. I missed your call as I was on a week of vacation.

In response to your voice mail, I propose you and/or the City of Sarnia draft a draft agenda for the proposed teleconference, send it to me, along with the anticipated length of the teleconference, whom will be participating, and I can then determine based upon the agenda items, whether my participation is sufficient, or whether I need to ask additional MOECC technical staff to join in as well.

If you could also provide a list of suggested dates, and times, I could also check internally as to staff availability, that is if additional MOECC staff are needed.

Thanks in advance Jessalyn, and have a great day.

Craig Newton
Regional Environmental Planner / Regional EA Coordinator
Ministry of the Environment & Climate Change
Southwestern Region
(519) 873-5014

From: [Newton, Craig \(MOECC\)](#)
To: [Oke, Jessalyn](#)
Cc: [Joe Boothe](#); bryan.prouse@sarnia.ca; [Ott, Wendy](#); [Corda, Maryjane \(MOECC\)](#); [Mitchell, Vicki \(MOECC\)](#); [Moroney, Michael \(MOECC\)](#)
Subject: RE: Municipal Class EA - Shoreline Protection in Sarnia Bay
Date: Tuesday, October 20, 2015 11:39:46 AM

Jessalyn:

I sought some advice this morning from one of my counterparts in MOECC Eastern Region. She is reportedly out of the office until Thursday of this week, and is reportedly not checking her e-mails in the meantime. I have also asked staff of MOECC Sarnia District if they would like to participate in any forthcoming teleconference. I have yet to hear back from either. I am out of the office myself on Thursday of this week, and Monday of next. The earliest a teleconference could possibly occur, if really needed, would be this Friday or Tuesday of next week, but I have yet to receive confirmation from MOECC Sarnia staff if they would like to participate or hear back from staff of MOECC Eastern Region.

All that said, a teleconference is not needed in my mind if the City of Sarnia is willing to re-advertise and hold yet another "First" PIC meeting", ensuring that this time the public notice of that PIC meeting is issued in two separate issues of the local newspaper, as well as those that were provided notice under other means of the very first PIC Meeting . The rationale for this position being that this is needed to: a) fully satisfy the notification requirements of this Municipal Class EA: b) to reduce the likelihood of Part II Order requests being submitted as a consequence of only one notice being provided previously in one issue of the local paper and c) finally, the Municipal Class EA states that the mandatory contact points are a minimum, the proponent is free to offer more than the minimum number of contact points, which is what could be argued the City of Sarnia would be doing if they offer a second, "First PIC" meeting. This is my feelings, but have sought input from my counterpart in Eastern Region if they have experienced a previous scenario in the past and how it was handled.

Let me know how you and your client wish to proceed, teleconference, or no teleconference, based upon the content of this e-mail as described above.

Thanks in advance.

Yours truly,

Craig Newton
Regional Environmental Planner / EA Coordinator
Ministry of the Environment & Climate Change
Southwestern Region
(519) 873-5014

From: Oke, Jessalyn [mailto:Jessalyn_Oke@golder.com]
Sent: October-19-15 3:46 PM
To: Newton, Craig (MOECC)
Cc: Joe Boothe; bryan.prouse@sarnia.ca; Ott, Wendy
Subject: RE: Municipal Class EA - Shoreline Protection in Sarnia Bay

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We are available to discuss Monday through Friday of this week. We would like to discuss at your earliest convenience in case immediate actions are necessary. We kindly ask that you identify meeting times/dates that work best for yourself and others at the Ministry, as appropriate. If additional MOECC technical staff will be joining the conference call, please provide their contact details for inclusion on the meeting invite.

Many thanks and we look forward to discussing with you further,
Jessalyn Oke

Jessalyn Oke | Environmental Assessment Coordinator | **Golder Associates Ltd.**
6925 Century Avenue, Suite #100, Mississauga, Ontario, Canada L5N 7K2
T: +1 (905) 567 4444 | **D:** +1 (905) 567 6100 Ext. 1539 | **F:** +1 (905) 567 6561 | **C:** [REDACTED]
E: Jessalyn_Oke@golder.com | www.golder.com

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Please consider the environment before printing this email.

From: Newton, Craig (MOECC) [mailto:Craig.Newton@ontario.ca]
Sent: Monday, October 19, 2015 10:42 AM
To: Oke, Jessalyn
Subject: Municipal Class EA - Shoreline Protection in Sarnia Bay

Jessalyn:

Thank you for your voice mail of sometime last week. I missed your call as I was on a week of vacation.

In response to your voice mail, I propose you and/or the City of Sarnia draft a draft agenda for the proposed teleconference, send it to me, along with the anticipated length of the teleconference, whom will be participating, and I can then determine based upon the agenda items, whether my participation is sufficient, or whether I need to ask additional MOECC technical staff to join in as well.

If you could also provide a list of suggested dates, and times, I could also check internally as to staff availability, that is if additional MOECC staff are needed.

Thanks in advance Jessalyn, and have a great day.

Craig Newton
Regional Environmental Planner / Regional EA Coordinator
Ministry of the Environment & Climate Change
Southwestern Region
(519) 873-5014

From: [Joe Boothe](#)
To: [Newton, Craig \(MOECC\)](#)
Cc: [Bryan Prouse](#); [Ott, Wendy](#); [Corda, Maryjane \(MOECC\)](#); [Mitchell, Vicki \(MOECC\)](#); [Moroney, Michael \(MOECC\)](#); [Andre Morin](#); Jessica.Ceneviva@ontario.ca; [Schwerzmann, Marc](#); [Oke, Jessalyn](#)
Subject: RE: Municipal Class EA - Shoreline Protection in Sarnia Bay
Date: Tuesday, October 20, 2015 6:52:44 PM

Craig

As discussed earlier, the add that was used in the local paper for the first PIC on September 19th was also advertised on the City's public website on the same date which was and still is accessible under the news center tab at www.sarnia.ca. Also, since approximately October 10th till October 14th the meeting was advertised on the local radio stations during the morning, afternoon and evening news. The City believed this satisfied the notification requirements of the Municipal Class EA, but is seeking further clarification.

If you have any questions please feel free to contact me via telephone or email.

Regards,

Joe

From: Newton, Craig (MOECC) [mailto:Craig.Newton@ontario.ca]
Sent: October-20-15 11:40
To: Oke, Jessalyn
Cc: Joe Boothe; Bryan Prouse; Ott, Wendy; Corda, Maryjane (MOECC); Mitchell, Vicki (MOECC); Moroney, Michael (MOECC)
Subject: RE: Municipal Class EA - Shoreline Protection in Sarnia Bay

Jessalyn:

I sought some advice this morning from one of my counterparts in MOECC Eastern Region. She is reportedly out of the office until Thursday of this week, and is reportedly not checking her e-mails in the meantime. I have also asked staff of MOECC Sarnia District if they would like to participate in any forthcoming teleconference. I have yet to hear back from either. I am out of the office myself on Thursday of this week, and Monday of next. The earliest a teleconference could possibly occur, if really needed, would be this Friday or Tuesday of next week, but I have yet to receive confirmation from MOECC Sarnia staff if they would like to participate or hear back from staff of MOECC Eastern Region.

All that said, a teleconference is not needed in my mind if the City of Sarnia is willing to re-advertise and hold yet another "First" PIC meeting", ensuring that this time the public notice of that PIC meeting is issued in two separate issues of the local newspaper, as well as those that were provided notice under other means of the very first PIC Meeting . The rationale for this position being that this is needed to: a) fully satisfy the notification requirements of this Municipal Class EA: b) to reduce the likelihood of Part II Order requests being submitted as a consequence of only one notice being provided previously in one issue of the local paper and c) finally, the

Municipal Class EA states that the mandatory contact points are a minimum, the proponent is free to offer more than the minimum number of contact points, which is what could be argued the City of Sarnia would be doing if they offer a second, "First PIC" meeting. This is my feelings, but have sought input from my counterpart in Eastern Region if they have experienced a previous scenario in the past and how it was handled.

Let me know how you and your client wish to proceed, teleconference, or no teleconference, based upon the content of this e-mail as described above.

Thanks in advance.

Yours truly,

Craig Newton
Regional Environmental Planner / EA Coordinator
Ministry of the Environment & Climate Change
Southwestern Region
(519) 873-5014

From: Oke, Jessalyn [mailto:Jessalyn_Oke@golder.com]
Sent: October-19-15 3:46 PM
To: Newton, Craig (MOECC)
Cc: Joe Boothe; bryan.prouse@sarnia.ca; Ott, Wendy
Subject: RE: Municipal Class EA - Shoreline Protection in Sarnia Bay

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Many thanks and we look forward to discussing with you further,
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| **E:** Jessalyn_Oke@golder.com | www.golder.com

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Craig Newton

Regional Environmental Planner / Regional EA Coordinator

Ministry of the Environment & Climate Change

Southwestern Region

(519) 873-5014



Joe Boothe
Superintendent, Environmental Services

City of Samia
2100 Confederation Line
Samia, ON N7T 7H3
Phone: 519-332-0527ext 3590
Fax: 519-337-0736
www.samia.ca



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From: Oke, Jessalyn
To: [Dallas Cundick \(dcundick@scrca.on.ca\)](mailto:dcundick@scrca.on.ca); "Sarah Hodgkiss"
Cc: [Joe Boothe](#); [Ott, Wendy](#); [Schwerzmann, Marc](#); [Winhold, Terry](#)
Subject: Sarnia Bay Class EA - Shoreline Protection
Date: Wednesday, October 21, 2015 1:45:00 PM
Attachments: [1413940 Meeting 4 Minutes - October 6 2015.pdf](#)

Hi Dallas and Sarah,

Attached for the St. Clair Region Conservation Authority's project records are the meeting minutes from the conference call that was held on October 6, 2015 with the City of Sarnia and Golder Associates for the Shoreline Protection of Sarnia Bay at Centennial Park. We would like to thank you for joining us to discuss this project.

Kind regards,
Jessie

Jessalyn Oke | Environmental Assessment Coordinator | **Golder Associates Ltd.**
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T: +1 (905) 567 4444 | **D:** +1 (905) 567 6100 Ext. 1539 | **F:** +1 (905) 567 6561 | **C:** [REDACTED]
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MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT STUDY FOR THE SHORELINE PROTECTION OF CENTENNIAL PARK MEETING MINUTES

PURPOSE Alternative Solutions and Permitting Requirements

DATE October 6, 2015

PROJECT No. 1413940, 7000

ATTENDEES Dallas Cundick, Sarah Hodgkiss (St Clair Region Conservation Authority)
Joe Boothe (City of Sarnia)
Marc Schwerzmann, Wendy Ott, Terry Winhold, Aurelia Thevenot (Golder Associates Ltd.)

The City of Sarnia (City) and Golder Associates Ltd. (Golder) held a conference call with the St Clair Region Conservation Authority (SCRCA) on October 6, 2015 to solicit feedback on the alternatives and permitting requirements.

Agenda Item	Discussion	Action
1. Alternative Designs	<ul style="list-style-type: none">Golder presented alternatives for armour stone wall and boat launch - no comments or questions from SCRCA, figures were clear1:100 year flood levels provided by SCRCA (177.6 m) differ from those in City of Sarnia Official Plan 2014 (178.3 m). Presumably, the latter was also provided by SCRCA but includes freeboard to represent a flood proofing elevation. Alternatively, it may include contingency for wave uprush. Terry to send an email to Dallas requesting clarification on which elevation to use in the detailed design of the preferred alternative.Construction of the armour stone wall will require dry conditions, achieved by installing a temporary/portable dam, pumping out water and a fish by-pass system.	<ol style="list-style-type: none">Terry to send an email to Dallas requesting clarification on which elevation to use in the detailed design of the preferred alternative.



MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT STUDY FOR THE SHORELINE PROTECTION OF CENTENNIAL PARK MEETING MINUTES

Agenda Item	Discussion	Action
2. Permitting Requirements (O. Reg. 171/06) - Timelines	<ul style="list-style-type: none">• Timing constraints (park open for 2017 Canada Day Bicentennial and boat launches ready for opening of boating season) are mainly concerns brought forward by the public.• The City requests that the following construction timelines remain confidential due to public sensitivities:<ul style="list-style-type: none">○ for boat ramps to be operational by mid-May, removal of existing infrastructure must start 2nd or 3rd week of March.○ shoreline protection construction needs to be completed sequentially from west to east to enable safe storage of excavated fill within the Park. In-water works would be required by mid-April for completion by Labour Day.• Concurrent engagement is occurring with Ministry of Natural Resources and Forestry (MNRF) and Fisheries and Oceans Canada (DFO) regarding a construction window exemption and a request for Project Review, respectively. For information, the bay is a cool/coldwater fishery; no species at risk (i.e., Endangered/Threatened) were identified in fish community data review. Two Special Concern species were identified. The habitat along the shoreline is similar to the rest of the bay, aside for some cobbled area, and impacts will be managed through mitigation.• SCRCA's approximate timeline for reviewing technical documents and requesting clarifications/supplemental information is two weeks. Once all information is received, an additional two weeks is allotted for permit review and approval. Assuming few comments and quick response turnaround, the permitting process is expected to take from one to two months.• SCRCA indicated they would be willing to issue a draft permit in advance of finalizing the Environmental Study Report (ESR) filing such that the permit could be quickly finalized. The draft permit would be conditional on minimal changes in the Final ESR.	2. SCRCA permit application will be submitted at the same time the final draft ESR is posted for public comment.



**MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT STUDY
FOR THE SHORELINE PROTECTION OF CENTENNIAL PARK
MEETING MINUTES**

Agenda Item	Discussion	Action
<p>3. Permitting Requirements (O. Reg. 171/06) - Technical</p>	<ul style="list-style-type: none"> • SCRCA will defer to MNR/DFO guidance for fish/fish habitat-related concerns. • SCRCA will concentrate on sediment erosion concerns, and will require specifics on proposed erosion and sediment control measures, best practice management, contingency planning, etc. • In addition to the forms and fees, SCRCA will require hydrology details, including ice-jamming, if not already presented in the environmental assessment. • SCRCA confirmed that overtopping of the shoreline works was acceptable during extreme events, which is consistent with current conditions. • SCRCA confirmed that a qualitative assessment (no modelling) of updrift/downdrift on sediment transport would be acceptable since construction will occur away from waters edge. The rationale for a qualitative assessment needs to be explicit. • One of the SCRCA requirements is to not impede flood storage; however, by nature of the soil cap there will be some reduction. Also, there is no control of the U.S. side of the river. SCRCA clarified that a quantitative assessment or modelling of impacts and effects of mitigation on flood storage is required to determine whether the proposed works are acceptable. 	<p>3. Golder to include an analysis of removed storage volume compared to river flow volume during a 1:100 year event as a means of quantifying impact.</p>
<p>4. EA Process</p>	<ul style="list-style-type: none"> • A discussion of the Class environmental assessment process and level of engagement of various regulatory bodies was held for information purposes. • Although placement of a soil cap created the requirement for shoreline protection, the scope of the environmental assessment is restrained to the latter. • The "Do Nothing" option is not an acceptable solution as without shoreline protection the soil cap is not feasible, the Park will remain closed and there will be economic and public recreational implications. 	<p>—</p>

October 22, 2015

Project No. 1413940

Environmental Coordinator Sharilyn Johnston
Aamjiwnaang First Nation Health and Environment Committee
978 Tashmoo Avenue
Sarnia, Ontario N7T 7H5

SCHEDULE 'C' CLASS ENVIRONMENTAL ASSESSMENT FOR SHORELINE PROTECTION OF CENTENNIAL PARK ALONG THE SARNIA BAY HARBOUR FRONT

Dear Environmental Coordinator Sharilyn Johnston,

The City of Sarnia has initiated the Municipal Class Environmental Assessment (EA) for the investigation of shoreline protection options along the southern waterfront of Sarnia Bay in Centennial Park (the Park). The EA also considers the removal of the existing boat ramps and installation of new ramps closer to the existing marina. The purpose of this study is to develop a recommended plan to provide shoreline protection that is necessary for implementation of a clean soil cap at the Park to address historical contaminants in fill that was used during Park construction.

The study is being completed in accordance with the *Municipal Class Environmental Assessment, October 2000, as amended in 2007, 2011 and 2014 – Schedule 'C'*.

The first Public Information Centre (PIC) for this study was held on October 14, 2015 at Sarnia City Hall. The City of Sarnia values your feedback on this Project. We noted that representatives from your community were unable to attend this PIC and have therefore included the display boards that were presented during this PIC for your review and comment. A comment form is also included within this package should you like to provide comments on this study.

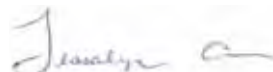
An important part of the EA process is engaging potentially-affected Aboriginal communities. In addition to providing comments on the display boards included with this package, we request that you identify any Aboriginal or treaty rights that you feel may be affected by the Project. We would like to discuss any concerns you may have and any information you can provide about how the Project may affect your community. We are happy to meet in person or over the telephone at your convenience.

If you have any questions or comments, please feel free to contact the undersigned using the contact information provided below.

Respectfully,



Chris Gurski
Engagement Coordinator
6925 Century Avenue, Suite #100
Mississauga, Ontario, L5N 7K2
Phone: (905) 567-6100 x1557
Email: Chris_Gurski@golder.com
Attachments: PIC 1 Display Boards and Comment Form



Jessalyn Oke
Environmental Assessment Coordinator
6925 Century Avenue, Suite #100
Mississauga, Ontario, L5N 7K2
Phone: (905) 567-6100 x1539
Email: Jessalyn_Oke@golder.com



October 22, 2015

Project No. 1413940

Chief Tom Bressette
Chippewas of Kettle and Stony Point First Nation
6247 Indian Lane
Kettle and Stony Point First Nation, N0N 1J1

SCHEDULE 'C' CLASS ENVIRONMENTAL ASSESSMENT FOR SHORELINE PROTECTION OF CENTENNIAL PARK ALONG THE SARNIA BAY HARBOUR FRONT

Dear Chief Tom Bressette,

The City of Sarnia has initiated the Municipal Class Environmental Assessment (EA) for the investigation of shoreline protection options along the southern waterfront of Sarnia Bay in Centennial Park (the Park). The EA also considers the removal of the existing boat ramps and installation of new ramps closer to the existing marina. The purpose of this study is to develop a recommended plan to provide shoreline protection that is necessary for implementation of a clean soil cap at the Park to address historical contaminants in fill that was used during Park construction.

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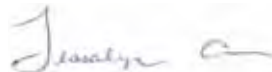
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Environmental Assessment Coordinator
6925 Century Avenue, Suite #100
Mississauga, Ontario, L5N 7K2
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Email: Jessalyn_Oke@golder.com



October 22, 2015

Project No. 1413940

Chief Dan Miskokomon
Bkejwanong (Walpole Island First Nation)
RR #3
Walpole Island, Ontario N8A 4K9

SCHEDULE 'C' CLASS ENVIRONMENTAL ASSESSMENT FOR SHORELINE PROTECTION OF CENTENNIAL PARK ALONG THE SARNIA BAY HARBOUR FRONT

Dear Chief Dan Miskokomon,

The City of Sarnia has initiated the Municipal Class Environmental Assessment (EA) for the investigation of shoreline protection options along the southern waterfront of Sarnia Bay in Centennial Park (the Park). The EA also considers the removal of the existing boat ramps and installation of new ramps closer to the existing marina. The purpose of this study is to develop a recommended plan to provide shoreline protection that is necessary for implementation of a clean soil cap at the Park to address historical contaminants in fill that was used during Park construction.

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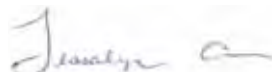
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October 22, 2015

Project No. 1413940

Chief Sheri Doxtator
Oneida Nation of the Thames First Nation
2212 Elm Avenue
Southwood, Ontario N0L 2G0

SCHEDULE 'C' CLASS ENVIRONMENTAL ASSESSMENT FOR SHORELINE PROTECTION OF CENTENNIAL PARK ALONG THE SARNIA BAY HARBOUR FRONT

Dear Chief Sheri Doxtator,

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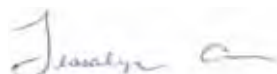
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Email: Jessalyn_Oke@golder.com



October 22, 2015

Project No. 1413940

Chief Joe Miskokomon
Chippewas of the Thames First Nation
320 Chippewa Road
Muncey, Ontario N0L 1Y0

SCHEDULE 'C' CLASS ENVIRONMENTAL ASSESSMENT FOR SHORELINE PROTECTION OF CENTENNIAL PARK ALONG THE SARNIA BAY HARBOUR FRONT

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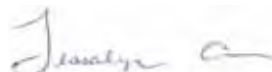
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If you have any questions or comments, please feel free to contact the undersigned using the contact information provided below.

Respectfully,



Chris Gurski
Engagement Coordinator
6925 Century Avenue, Suite #100
Mississauga, Ontario, L5N 7K2
Phone: (905) 567-6100 x1557
Email: Chris_Gurski@golder.com
Attachments: PIC 1 Display Boards and Comment Form



Jessalyn Oke
Environmental Assessment Coordinator
6925 Century Avenue, Suite #100
Mississauga, Ontario, L5N 7K2
Phone: (905) 567-6100 x1539
Email: Jessalyn_Oke@golder.com



October 22, 2015

Project No. 1413940

Chief Roger Thomas
Munsee-Delaware First Nation
289 Jubilee Road
Muncey, Ontario N0L 1Y0

SCHEDULE 'C' CLASS ENVIRONMENTAL ASSESSMENT FOR SHORELINE PROTECTION OF CENTENNIAL PARK ALONG THE SARNIA BAY HARBOUR FRONT

Dear Chief Roger Thomas,

The City of Sarnia has initiated the Municipal Class Environmental Assessment (EA) for the investigation of shoreline protection options along the southern waterfront of Sarnia Bay in Centennial Park (the Park). The EA also considers the removal of the existing boat ramps and installation of new ramps closer to the existing marina. The purpose of this study is to develop a recommended plan to provide shoreline protection that is necessary for implementation of a clean soil cap at the Park to address historical contaminants in fill that was used during Park construction.

The study is being completed in accordance with the *Municipal Class Environmental Assessment, October 2000, as amended in 2007, 2011 and 2014 – Schedule 'C'*.

The first Public Information Centre (PIC) for this study was held on October 14, 2015 at Sarnia City Hall. The City of Sarnia values your feedback on this Project. We noted that representatives from your community were unable to attend this PIC and have therefore included the display boards that were presented during this PIC for your review and comment. A comment form is also included within this package should you like to provide comments on this study.

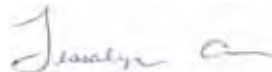
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October 22, 2015

Project No. 1413940

Chief Greg Peters
Delaware Nation
14760 School House Line
Thamesville, Ontario N0P 2K0

SCHEDULE 'C' CLASS ENVIRONMENTAL ASSESSMENT FOR SHORELINE PROTECTION OF CENTENNIAL PARK ALONG THE SARNIA BAY HARBOUR FRONT

Dear Chief Greg Peters,

The City of Sarnia has initiated the Municipal Class Environmental Assessment (EA) for the investigation of shoreline protection options along the southern waterfront of Sarnia Bay in Centennial Park (the Park). The EA also considers the removal of the existing boat ramps and installation of new ramps closer to the existing marina. The purpose of this study is to develop a recommended plan to provide shoreline protection that is necessary for implementation of a clean soil cap at the Park to address historical contaminants in fill that was used during Park construction.

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If you have any questions or comments, please feel free to contact the undersigned using the contact information provided below.

Respectfully,



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Attachments: PIC 1 Display Boards and Comment Form



Jessalyn Oke
Environmental Assessment Coordinator
6925 Century Avenue, Suite #100
Mississauga, Ontario, L5N 7K2
Phone: (905) 567-6100 x1539
Email: Jessalyn_Oke@golder.com



October 22, 2015

Project No. 1413940

Chief Louise Hillier
Caldwell First Nation
14 Orange Street
Leamington, Ontario N8H P5

SCHEDULE 'C' CLASS ENVIRONMENTAL ASSESSMENT FOR SHORELINE PROTECTION OF CENTENNIAL PARK ALONG THE SARNIA BAY HARBOUR FRONT

Dear Chief Louise Hillier,

The City of Sarnia has initiated the Municipal Class Environmental Assessment (EA) for the investigation of shoreline protection options along the southern waterfront of Sarnia Bay in Centennial Park (the Park). The EA also considers the removal of the existing boat ramps and installation of new ramps closer to the existing marina. The purpose of this study is to develop a recommended plan to provide shoreline protection that is necessary for implementation of a clean soil cap at the Park to address historical contaminants in fill that was used during Park construction.

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An important part of the EA process is engaging potentially-affected Aboriginal communities. In addition to providing comments on the display boards included with this package, we request that you identify any Aboriginal or treaty rights that you feel may be affected by the Project. We would like to discuss any concerns you may have and any information you can provide about how the Project may affect your community. We are happy to meet in person or over the telephone at your convenience.


If you have any questions or comments, please feel free to contact the undersigned using the contact information provided below.

Respectfully,



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**PUBLIC INFORMATION
CENTRE
OCTOBER 14, 2015**

**SHORELINE
PROTECTION
OF CENTENNIAL PARK
SARNIA BAY HARBOURFRONT**

**Municipal Class
Environmental
Assessment**



PROJECT HISTORY & PROBLEM/OPPORTUNITY STATEMENT



2012

June: The City responded to a reported spill in the Park and found a tar-like substance breaking out at ground level at various locations in the Park. A Phase I Environmental Site Assessment (ESA) was completed to review historical land use to determine potential contaminants. The source of the contamination was from fill used to construct the Park.

2013

May: A Phase II ESA was completed to identify and quantify contaminants. A Risk Assessment to address potential health impacts was also completed.
November: City Council was presented with the results of the investigations and available remedial (clean-up) measures.

2014

March: A Remedial Action Plan (RAP) for the Park was released for public review and comment. The RAP included the recommendation to place a clean soil cap at the Park to contain the contamination.
June: City Council approved the RAP.
September: Phase 1 of the remediation commenced.

2015

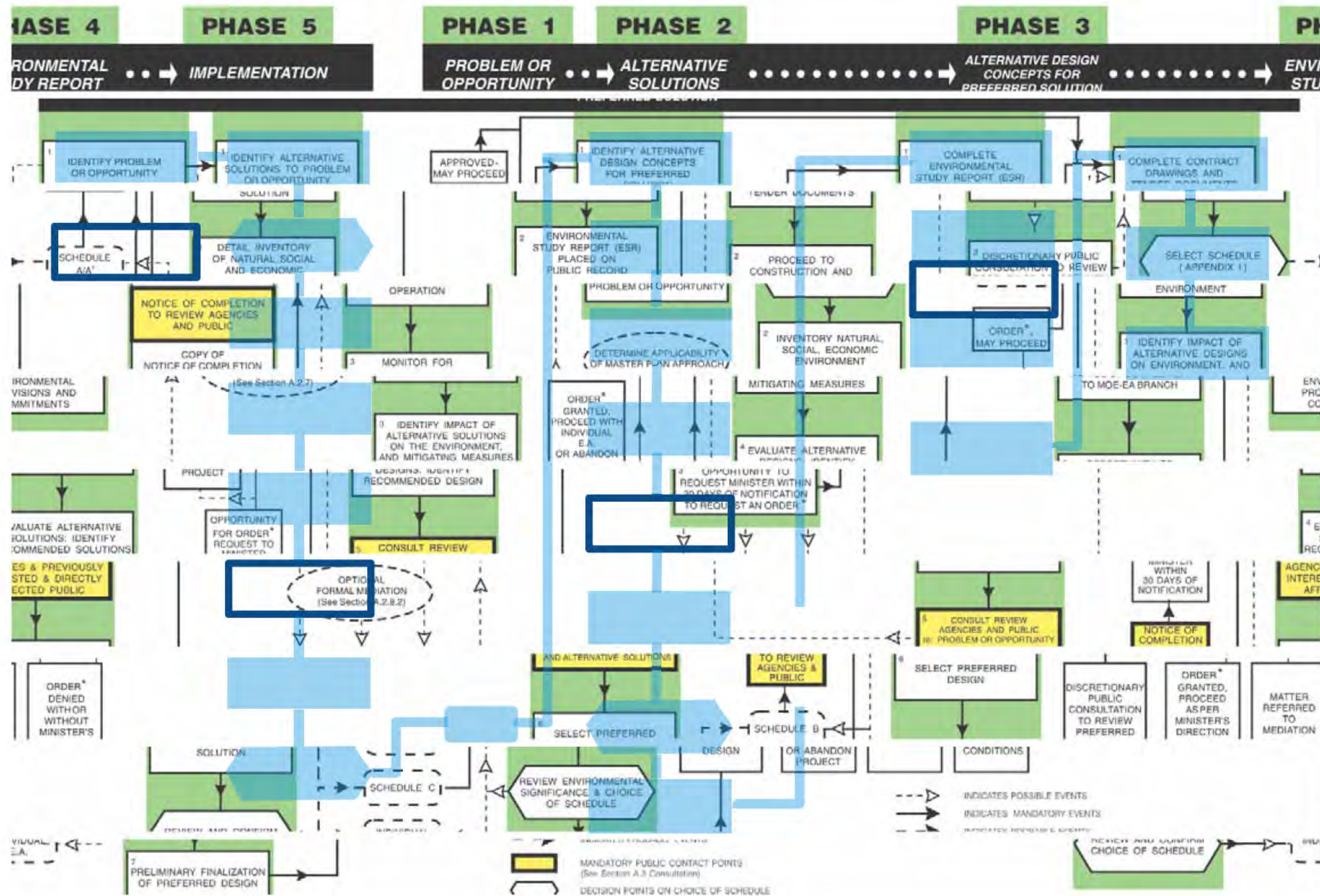
April: The Municipal Class Environmental Assessment (EA) was initiated. A Class EA is required when municipal plans include construction of new shoreline works, including installation of seawalls and boat ramps.
May: Public informed of Project through the Notice of Commencement.
June / July / August: Characterization of existing conditions.



PROBLEM/OPPORTUNITY STATEMENT:

The proposed solution to contain contaminants requires an overall increase in site grading of the Park by 0.5 metres, which necessitates the installation of shoreline protection at the Park's southern waterfront along Sarnia Bay. The Project also includes removal of the existing boat ramps and installation of new ramps closer to the existing marina.

SCHEDULE 'C' MUNICIPAL CLASS EA PROCESS



Process Summary

PHASE 1

- Identify Problem/Opportunity
- Issue Notice of Study Commencement
- Consult the Public on Problem or Opportunity

PHASE 2

- Develop Alternative Solutions to the Problem
- Describe Environmental Conditions
- Evaluate the Feasibility and Impact of the Alternative Solutions
- Consult the Public with the Preferred Solution
- Select the Preferred Solution

PHASE 3

- Develop Conceptual Alternatives
- Evaluate Alternative Solutions
- Consult the Public on the Alternative Evaluation Process
- Select the Preferred Cross-Section Design

PHASE 4

- Document Results in Environmental Study Report
- Issue the Notice of Study Completion

SUPPORTING STUDIES FOR THE PROJECT



Environmental and Design Studies



Natural Environment Study

The natural environment study identified natural features, including species at risk (SAR) that have potential to occur within the study area. This was based on the planning status of the surrounding lands, a review of publicly available background information, and agency consultation. The results of the study will be used to assess the potential impacts on the natural environment related to each proposed alternative, and identify appropriate mitigation measures.



Archaeology Study

No archaeological studies were completed for the Project. Areas subject to extensive land disturbances, such as grading, have low to no archaeological potential and are not recommended for archaeological investigation. The existing shoreline of Sarnia Bay within the study area is man-made and the result of dredging and infilling between the 1920s and 1960s. These activities were undertaken to provide new harbour and rail transportation facilities.



Tree Inventory

The tree inventory investigated if there were any significant trees within the study area that required preservation and protection to minimize the impact of construction injury. The definition of a 'significant tree' was from the Ontario Urban Forestry Council and Forest Ontario's definitions of a 'heritage tree'.



Geotechnical Investigation

The geotechnical investigation determined the subsurface (underground) conditions at the Park. The geotechnical investigation report includes recommendations for the alternative solution and construction of the shoreline protection. Results of the geotechnical investigation will guide the development of alternative solutions and will be incorporated into the Environmental Study Report.



Built and Cultural Heritage Evaluation

The potential for built and cultural heritage was considered by the City's heritage planners through application of the Ministry of Tourism Culture and Sport's checklist criteria. A review of information to identify land use history, and a review of municipally and provincially designated historical sites and districts was completed to support the completion of the checklist.



Surface Water Study

The surface water study reviewed available information to determine the flood risk of the study area and assessed wind-wave climate, bathymetry (shape) and sediment transport processes in Sarnia Bay. Results of the surface water study will guide the development of alternative solutions and be incorporated into the Environmental Study Report.

EXISTING FEATURES / PRELIMINARY RESULTS



LEGEND

Terrestrial Vegetation Communities

- Commercial
- Manicured Lawn
- Deciduous Hedgerow
- Deciduous Cultural Woodland
- Cultural Meadow
- Recreational
- Shoreline

Tree Inventory

- Existing Tree to be Removed*

Aquatic Survey

- Fish Survey Locations*

Aquatic Community




Based on records provided by St. Clair Region Conservation Authority (SCRCA) and Ontario Ministry of Natural Resources and Forestry (MNR), 23 fish species have been identified within the general vicinity of the Study Area and consist primarily of cool/coldwater fish species. Shoreline Protection alternatives will be designed to minimize in-water works and be protective of the local fishery.

*Locations of existing features in the study area are approximate

EXISTING FEATURES / PRELIMINARY RESULTS



LEGEND

-  Area Not Affected by O. Reg. 97/04
-  Sediment Contamination Area
-  Sediment Sampling Locations
- 1 Victims of Chemical Valley Missing Worker Memorial
- 2 Footsteps Tribute to Courage – Never Walk Alone
- 3 Victorian Order of Nurses Memorial Garden Fountain

Stormwater Management

Currently stormwater drains from Centennial Park towards Sarnia Bay. Any fill placed or re-graded will be designed to maintain the existing surface water drainage towards Sarnia Bay.

*Locations of existing features in the study area are approximate

EVALUATION CRITERIA TO BE APPLIED TO THE PROJECT



The Environmental Assessment Act requires that the City consider impacts to the natural, social, economic, and cultural environments when evaluating project solutions. The project evaluation criteria outlined here have been identified based on background studies and public input to date.

A large drawing of the study area is provided on the tables. Please add notes to the drawing to identify any other issues you think should be considered.

Social and Economic Environment		
Goal	Objective	Project-specific Target
Compliance with the City of Sarnia Adopted Official Plan (2014)	Protection of lands designated as natural heritage systems (i.e., natural areas, parks, open space, natural hazards)	Protect, maintain, enhance and restore natural heritage systems where it is not feasible to direct development away from these areas
	Avoidance of building / structure construction within identified one-zone floodplain policy areas	Allow construction in support of public recreation only where construction will not affect flood flows
	Protection of groundwater to ensure safe drinking water supply	Protect or improve vulnerable water resources (i.e., aquifer and groundwater recharge areas)
	Consideration for public safety through protection of the St. Clair River waterfront and shoreline	Protect, maintain and enhance the waterfront through naturalization and improved stability of the shoreline
	Provision for bicycle and pedestrian corridors and linkages within urban natural areas	Maintain or improve existing multi-use walking / bicycling corridor along Sarnia Bay shoreline at the Park
	Protection of lands designated as park and open space	Protect, maintain, enhance and improve parks and open spaces
	Consideration of cultural heritage resources in the undertaking of municipal public works	Identification, conservation, protection, rehabilitation, renovation, restoration, preservation and reuse of cultural heritage / archaeological sites
	Application of high standards of urban design wherever possible	Maintain uniformity of design for elements such as benches, railings, lighting fixture, walkways and signs
	Consideration of the protection of urban City trees	Protect and preserve existing mature trees within the same site, or in an adjacent natural area or natural hazard lands, where possible
Compliance with the City of Sarnia Waterfront Master Plan (2005)	Enhance the opportunity for public enjoyment of the waterfront and waterfront character	Development consistent with land designations and plans of George Street to Exmouth Street and West of Harbour Road waterfront areas
	Protection of continuous public walkway at or near water edge	Maintain or improve continuous walkway
Consideration of public concerns identified for the project	Consideration of power sources for recreational uses, such as the Celebration of Lights	Maintain or improve adequate power source for recreational uses

EVALUATION CRITERIA TO BE APPLIED TO THE PROJECT



Natural Environment		
Goal	Objective	Project-specific Target
Compliance with natural heritage policies of the <i>Provincial Policy Statement (2014)</i>	Protection of significant wetlands	No development or site alterations in wetlands identified as Provincially Significant
	Protection of significant woodlands	No negative impact to significant woodlands from site alteration or development
	Protection of significant valley lands	No negative impact to significant valley lands from site alteration or development
	Protection of significant wildlife habitat	No negative impact to significant wildlife habitat from site alteration or development
	Protection of Areas of Natural or Scientific Interest (ANSI)	No negative impact to ANSIs from site alteration or development
	Protection of fish habitat	Minimize development or site alteration in fish habitat or riparian areas (defined as areas within 15 m from top of bank)
Compliance with the <i>Endangered Species Act (2007)</i>	Protection of species listed as threatened or endangered in Ontario	No killing, harming or harassing of species, or impacting the habitat of species identified as endangered or threatened
Compliance with the <i>Species at Risk Act (SARA)(2002)</i>	Protection of aquatic species listed as endangered, threatened or extirpated in Canada, and migratory birds listed under the SARA	No impact to critical habitat of endangered, threatened or extirpated aquatic species or habitat of migratory birds
Compliance with the <i>Migratory Birds Convention Act (1994)</i>	Protection of nesting habitat of migratory birds in Canada	No clearing of trees, shrubs, meadow grasses or existing structures that would result in the destruction of nests of migratory birds during the breeding season
Compliance with <i>Ontario Regulation 171/06 – St. Clair Region Conservation Authority</i>	Protection of public safety and property from natural hazards, and prevention of pollution and destruction of sensitive environmental areas such as wetlands, shorelines and watercourses	Minimize excavation, filling, site grading or development within the regulated limit
Consideration of best practices for watershed protection	Preservation of riparian zones adjacent to shorelines, minimization of shoreline erosion and sedimentation and maintenance of stormwater runoff at pre-development levels	Maintain natural drainage patterns and manage stormwater runoff

Technical Design		
Issue	Objective	Project-specific Target
Consideration of construction duration and timing	Efficient duration of construction that is protective of the natural heritage environment	Limit and reduce construction duration and timing within wildlife protection windows, as applicable
Consideration of geotechnical factors and feasibility of implementation	Feasible design that can be implemented within existing geotechnical conditions	Provision of a feasible design that is compatible with existing geotechnical conditions
Consideration for the protection of public safety	Safe separation of pedestrians from shoreline	Improve and protect public safety through provision for buffer between sidewalks and shoreline
Consideration of durability and life expectancy	Long-term solution to shoreline protection	Design that has long life expectancy and can withstand environmental factors
Consideration for flooding potential	Consideration of public safety against flood potential appropriate for an urban park environment (i.e., 10-year return period).	Provision of a feasible design that considers protection of the public against flood events having a return period of 10 years taking into account water levels, waves and wave run up
Consideration of coastal hydraulics and compliance with appropriate technical guidelines for shoreline protection in an urban park environment	Feasible design that can be implemented, given expected water level and wave conditions	Provision of a feasible design that considers the 100 year water level in Sarnia Bay, including significant wave height and wave run up

Cultural Environment		
Issue	Objective	Project-specific Target
Compliance with the <i>Ontario Heritage Act (1990)</i>	Protection of built heritage structures 40 years of age or older that have cultural heritage value or interest as per Ontario Regulation 9/06	No impact to property or structures of cultural heritage value that have a municipal heritage designation as determined by Heritage Sarnia or Council resolution
	Protection of properties that are listed or designated under Part IV of the <i>Ontario Heritage Act</i>	No impact to property or structures with heritage designations under the <i>Ontario Heritage Act</i>
	Protection of archaeological resources and historic sites	No ground disturbance in areas of archaeological potential

NEXT STEPS



Next Steps:

- Receive and review comments received from this Public Information Centre, and from external agencies.
- Identify and evaluate alternative solutions.
- Confirm the preferred solution.
- Identify and evaluate alternative design concepts.
- Hold second Public Information Centre during November/December 2015. Review comments received.
- Confirm preferred design and issue the Notice of Study Completion and Environmental Study Report for public review.

Your Comments are Important to Us

Please ask questions of the project team, and complete a comment sheet before you leave.

You may also submit your comment sheet and return by mail until November 13, 2015.

Joe Boothe

Superintendent, Environmental Services
City of Sarnia
255 North Christina Street
PO Box 3018
Sarnia, ON, N7T 7N2
(519) 332-0527 ext. 3590
Joe.Boothe@sarnia.ca

Jessalyn Oke

Environmental Assessment Specialist
Golder Associates Ltd.
625 Century Avenue, Suite #100
Mississauga, ON, L5N 7K2
(905) 567-4444
Jessalyn_Oke@golder.com

Freedom of Information and Protection of Privacy

Information collected at this Public Information Centre is being collected in accordance with the *Freedom of Information and Protection of Privacy Act* (R.S.O. 1990). This information will be kept by the City of Sarnia on file and may be included in study documentation. With the exception of personal information, all comments will become part of the public record. Names and addresses will be kept confidential.

From: [Newton, Craig \(MOECC\)](#)
To: [Joe Boothe](#)
Cc: bryan.prouse@sarnia.ca; [Ott, Wendy](#); [Moroney, Michael \(MOECC\)](#); [Ceneviva, Jessica \(MOECC\)](#); [Corda, Maryjane \(MOECC\)](#); [Oke, Jessalyn](#)
Subject: RE: Municipal Class EA - Shoreline Protection in Sarnia Bay
Date: Friday, October 23, 2015 3:02:06 PM

Dear Joe:

I am writing to you today in response to the preceding e-mail of October 19th, 2015 addressed to this ministry from your Consultant for this proposed project (Golder Associates), our subsequent phone conversations (Boothe / Newton) of earlier this week, as well as the City's e-mail addressed to me of October 20th, 2015, the content of which is inserted in red font italics immediately below:

“Craig

As discussed earlier, the ad that was used in the local paper for the first PIC on September 19th was also advertised on the City's public website on the same date which was and still is accessible under the news center tab at www.sarnia.ca. Also, since approximately October 10th till October 14th the meeting was advertised on the local radio stations during the morning, afternoon and evening news. The City believed this satisfied the notification requirements of the Municipal Class EA, but is seeking further clarification. If you have any questions please feel free to contact me via telephone or email.

*Regards,
Joe”*

This proposed project is reportedly proceeding through the Class EA process as a Schedule C Project under the Municipal Engineers Association Municipal Class Environmental Assessment (MEAMCEA). For Schedule C Projects, according to the MEAMCEA, there are three mandatory points of contact with the public. Each Mandatory point of contact with the public shall be advertised by means of two published Notices to the public. For the purposes of this Class EA, a published notice means 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. For each of the three mandatory points of contact with the public (Mandatory Points of Public Contact One, Two and Three), two published Notices are to be issued. This is a mandatory minimum, in addition to any radio announcements and/or notices the City should choose to place on the City's website.

The First Mandatory Point of Contact with the public for this proposed project was reported to have occurred on October 14th, 2015, wherein a Public Information Centre (PIC) / Open House took place to present background information and introduce the alternative evaluation processes to interested members of the public. It is this ministry's understanding that for this First Mandatory Point of Contact, one published notice has reportedly been issued to date, but not two.

The Class EA process is a proponent led process. It is the responsibility of the proponent to follow the processes outlined in the Municipal Class EA. To date, given the lack of a second published notice for Point of Contact #1, it is recommended that the City consider options for addressing this current omission. How the City chooses to address this current omission is ultimately its prerogative.

One suggestion, the City may want to consider taking, is to publish another single notice, in the same newspaper that the original Notice was issued, which outlines the proposed project and EA phase (as denoted in the Notice for the October 14th, 2015 PIC) and directs the public to a website that provides detailed information about the project, with a contact provided in the Notice for the public to convey any comments/concerns to. This aforementioned suggestion would not necessarily need to be followed by another Public Information Centre, that would be the City's prerogative. This is one suggestion, the City may very well come up with other equivalent approaches / solutions to remedying the current omission with respect to Mandatory Contact Point #1 discussed above.

For the remaining Mandatory Points of contact with the public for this EA, specifically Mandatory Points of Contact Two, and Three (Notice of Completion), the City of Sarnia should ensure that the two published notices are issued in accordance with the written direction provided by the MEAMCEA. That is, two published notices, appearing in two separate issues of the same newspaper, for each Point of Contact, Two and Three.

I trust the foregoing will be of assistance to the City of Sarnia.

Yours truly,

Craig Newton
Regional Environmental Planner / Regional EA Coordinator
Ministry of the Environment & Climate Change
Southwestern Region
(519) 873-5014

From: Oke, Jessalyn [mailto:Jessalyn_Oke@golder.com]
Sent: October-19-15 3:46 PM
To: Newton, Craig (MOECC)
Cc: Joe Boothe; bryan.prouse@sarnia.ca; Ott, Wendy
Subject: RE: Municipal Class EA - Shoreline Protection in Sarnia Bay

Hi Craig,

Thank you for responding so quickly to my voice mail. The City of Sarnia and Golder Associates would like to hold a 30 minute conference call with the Ministry to discuss notification requirements of

mandatory points of contact for Schedule 'C' Class Environmental Assessments (EA). The City of Sarnia is conducting a Schedule 'C' Class EA to investigate shoreline protection options along the southern waterfront of Sarnia Bay in Centennial Park as well as the removal of the existing boat ramps and installation of new ramps closer to the existing marina (the Project).

The first Public Information Centre for the Project was held at City Hall on October 14, 2015. The Notice for this event was mailed to key stakeholders and members of the public who might reasonably have an interest in the Project, and it was also advertised in the local newspaper. We understand that two published notices are required for all mandatory points of contact as per the Municipal Engineer Association Class EA guide. The Notice for this event was advertised once in the local newspaper, as such we would like to discuss this contact with the Ministry to obtain guidance and advice for moving forward.

We are available to discuss Monday through Friday of this week. We would like to discuss at your earliest convenience in case immediate actions are necessary. We kindly ask that you identify meeting times/dates that work best for yourself and others at the Ministry, as appropriate. If additional MOECC technical staff will be joining the conference call, please provide their contact details for inclusion on the meeting invite.

Many thanks and we look forward to discussing with you further,
Jessalyn Oke

Jessalyn Oke | Environmental Assessment Coordinator | **Golder Associates Ltd.**

6925 Century Avenue, Suite #100, Mississauga, Ontario, Canada L5N 7K2

T: +1 (905) 567 4444 | **D:** +1 (905) 567 6100 Ext. 1539 | **F:** +1 (905) 567 6561 | **C:** [REDACTED]

| **E:** Jessalyn_Oke@golder.com | www.golder.com

Work Safe, Home Safe

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Please consider the environment before printing this email.

From: Newton, Craig (MOECC) [<mailto:Craig.Newton@ontario.ca>]

Sent: Monday, October 19, 2015 10:42 AM

To: Oke, Jessalyn

Subject: Municipal Class EA - Shoreline Protection in Sarnia Bay

Jessalyn:

Thank you for your voice mail of sometime last week. I missed your call as I was on a week of vacation.

In response to your voice mail, I propose you and/or the City of Sarnia draft a draft agenda for the proposed teleconference, send it to me, along with the anticipated length of the teleconference, whom will be participating, and I can then determine based upon the agenda items, whether my participation is sufficient, or whether I need to ask additional MOECC technical staff to join in as well.

If you could also provide a list of suggested dates, and times, I could also check internally as to staff availability, that is if additional MOECC staff are needed.

Thanks in advance Jessalyn, and have a great day.

Craig Newton
Regional Environmental Planner / Regional EA Coordinator
Ministry of the Environment & Climate Change
Southwestern Region
(519) 873-5014



PUBLIC COMMENT INVITED

CITY OF SARNIA

SCHEDULE 'C' CLASS ENVIRONMENTAL ASSESSMENT FOR SHORELINE PROTECTION OF CENTENNIAL PARK ALONG THE SARNIA BAY HARBOUR FRONT

The City of Sarnia is conducting a Municipal Class Environmental Assessment (EA) to investigate options for shoreline protection along the southern waterfront of Sarnia Bay in Centennial Park (the Park). The EA is also evaluating the removal of the existing boat ramps and installation of new ramps closer to the existing marina. The purpose of this study is to develop a recommended plan to provide shoreline protection that is necessary for implementation of a clean soil cap at the Park to address historical contaminants in fill material that was used during Park construction.

The study is proceeding in accordance with the *Municipal Class Environmental Assessment, October 2000, as amended in 2007, 2011 and 2014 – Schedule 'C'*.

The first Public Information Centre (PIC) for this study was held on October 14, 2015 at City Hall. The PIC presented background information and introduced the alternative evaluation process. Representatives of the City of Sarnia and Golder Associates Ltd. were present to answer questions regarding the Project. A copy of the materials presented at this PIC is available online at: www.sarnia.ca.



Public input and comment on the first PIC are invited, and will be received until November 13, 2015. Comments will be incorporated into the planning and design of this Project. Notices of additional opportunities to comment on the Project will be provided (i.e., PIC 2). With the exception of personal information, all comments received will be part of the public record. Upon completion of the study, an Environmental Study Report will be placed on the public record for a minimum 30 day review period.

If you have any comments or questions, or require information about the study or the Municipal Class EA process, please direct them to the persons listed below.

Joe Boothe

Superintendent, Environmental Services
City of Sarnia
255 North Christina Street
PO BOX 3018
Sarnia, Ontario, N7T 7N2
Phone: (519) 332-0527 ext. 3590
Fax: (519) 337-0736
Email: joe.boothe@sarnia.ca

Jessalyn Oke, B.Sc.


Environmental Assessment Specialist
Golder Associates Ltd.
6925 Century Avenue, Suite #100
Mississauga, Ontario, L5N 7K2
Phone: (905) 567 4444
Fax: (905) 567 6561
Email: Jessalyn_Oke@golder.com

From: [Joe Boothe](#)
To: "Newton, Craig (MOECC)"
Cc: [Bryan Prouse](#); [Ott, Wendy](#); [Moroney, Michael \(MOECC\)](#); [Ceneviva, Jessica \(MOECC\)](#); [Corda, Maryjane \(MOECC\)](#); [Oke, Jessalyn](#); [Andre Morin](#)
Subject: RE: Municipal Class EA - Shoreline Protection in Sarnia Bay
Date: Monday, October 26, 2015 2:12:03 PM

Thanks Craig, it is.

Joe

 **Joe Boothe**
Superintendent, Environmental Services 

City of Sarnia
2100 Confederation Line
Sarnia, ON N7T 7H3
Phone: 519-332-0527ext 3590
Fax: 519-337-0736
www.sarnia.ca  

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From: Newton, Craig (MOECC) [mailto:Craig.Newton@ontario.ca]
Sent: October-23-15 15:02
To: Joe Boothe
Cc: Bryan Prouse; Ott, Wendy; Moroney, Michael (MOECC); Ceneviva, Jessica (MOECC); Corda, Maryjane (MOECC); Oke, Jessalyn
Subject: RE: Municipal Class EA - Shoreline Protection in Sarnia Bay

Dear Joe:

I am writing to you today in response to the preceding e-mail of October 19th, 2015 addressed to this ministry from your Consultant for this proposed project (Golder Associates), our subsequent phone conversations (Boothe / Newton) of earlier this week, as well as the City's e-mail addressed to me of October 20th, 2015, the content of which is inserted in red font italics immediately below:

"Craig

As discussed earlier, the ad that was used in the local paper for the first PIC on September 19th was also advertised on the City's public website on the same date which was and still is accessible under the news center tab at www.sarnia.ca. Also,

since approximately October 10th till October 14th the meeting was advertised on the local radio stations during the morning, afternoon and evening news. The City believed this satisfied the notification requirements of the Municipal Class EA, but is seeking further clarification. If you have any questions please feel free to contact me via telephone or email.

*Regards,
Joe”*

This proposed project is reportedly proceeding through the Class EA process as a Schedule C Project under the Municipal Engineers Association Municipal Class Environmental Assessment (MEAMCEA). For Schedule C Projects, according to the MEAMCEA, there are three mandatory points of contact with the public. Each Mandatory point of contact with the public shall be advertised by means of two published Notices to the public. For the purposes of this Class EA, a published notice means 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. For each of the three mandatory points of contact with the public (Mandatory Points of Public Contact One, Two and Three), two published Notices are to be issued. This is a mandatory minimum, in addition to any radio announcements and/or notices the City should choose to place on the City's website.

The First Mandatory Point of Contact with the public for this proposed project was reported to have occurred on October 14th, 2015, wherein a Public Information Centre (PIC) / Open House took place to present background information and introduce the alternative evaluation processes to interested members of the public. It is this ministry's understanding that for this First Mandatory Point of Contact, one published notice has reportedly been issued to date, but not two.

The Class EA process is a proponent led process. It is the responsibility of the proponent to follow the processes outlined in the Municipal Class EA. To date, given the lack of a second published notice for Point of Contact #1, it is recommended that the City consider options for addressing this current omission. How the City chooses to address this current omission is ultimately its prerogative.

One suggestion, the City may want to consider taking, is to publish another single notice, in the same newspaper that the original Notice was issued, which outlines the proposed project and EA phase (as denoted in the Notice for the October 14th, 2015 PIC) and directs the public to a website that provides detailed information about the project, with a contact provided in the Notice for the public to convey any comments/concerns to. This aforementioned suggestion would not necessarily need to be followed by another Public Information Centre, that would be the City's prerogative. This is one suggestion, the City may very well come up with other equivalent approaches / solutions to remedying the current omission with respect to Mandatory Contact Point #1 discussed above.

For the remaining Mandatory Points of contact with the public for this EA, specifically

Mandatory Points of Contact Two, and Three (Notice of Completion), the City of Sarnia should ensure that the two published notices are issued in accordance with the written direction provided by the MEAMCEA. That is, two published notices, appearing in two separate issues of the same newspaper, for each Point of Contact, Two and Three.

I trust the foregoing will be of assistance to the City of Sarnia.

Yours truly,

Craig Newton
Regional Environmental Planner / Regional EA Coordinator
Ministry of the Environment & Climate Change
Southwestern Region
(519) 873-5014

From: Oke, Jessalyn [mailto:Jessalyn_Oke@golder.com]
Sent: October-19-15 3:46 PM
To: Newton, Craig (MOECC)
Cc: Joe Boothe; bryan.prouse@sarnia.ca; Ott, Wendy
Subject: RE: Municipal Class EA - Shoreline Protection in Sarnia Bay

Hi Craig,

Thank you for responding so quickly to my voice mail. The City of Sarnia and Golder Associates would like to hold a 30 minute conference call with the Ministry to discuss notification requirements of mandatory points of contact for Schedule 'C' Class Environmental Assessments (EA). The City of Sarnia is conducting a Schedule 'C' Class EA to investigate shoreline protection options along the southern waterfront of Sarnia Bay in Centennial Park as well as the removal of the existing boat ramps and installation of new ramps closer to the existing marina (the Project).

The first Public Information Centre for the Project was held at City Hall on October 14, 2015. The Notice for this event was mailed to key stakeholders and members of the public who might reasonably have an interest in the Project, and it was also advertised in the local newspaper. We understand that two published notices are required for all mandatory points of contact as per the Municipal Engineer Association Class EA guide. The Notice for this event was advertised once in the local newspaper, as such we would like to discuss this contact with the Ministry to obtain guidance and advice for moving forward.

We are available to discuss Monday through Friday of this week. We would like to discuss at your earliest convenience in case immediate actions are necessary. We kindly ask that you identify meeting times/dates that work best for yourself and others at the Ministry, as appropriate. If additional MOECC technical staff will be joining the conference call, please provide their contact details for inclusion on the meeting invite.

Many thanks and we look forward to discussing with you further,
Jessalyn Oke

Jessalyn Oke | Environmental Assessment Coordinator | [Golder Associates Ltd.](#)

6925 Century Avenue, Suite #100, Mississauga, Ontario, Canada L5N 7K2

T: +1 (905) 567 4444 | **D:** +1 (905) 567 6100 Ext. 1539 | **F:** +1 (905) 567 6561 | **C:** +1 (647) 228 5247

| **E:** Jessalyn_Oke@golder.com | www.golder.com

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Please consider the environment before printing this email.

From: Newton, Craig (MOECC) [<mailto:Craig.Newton@ontario.ca>]

Sent: Monday, October 19, 2015 10:42 AM

To: Oke, Jessalyn

Subject: Municipal Class EA - Shoreline Protection in Sarnia Bay

Jessalyn:

Thank you for your voice mail of sometime last week. I missed your call as I was on a week of vacation.

In response to your voice mail, I propose you and/or the City of Sarnia draft a draft agenda for the proposed teleconference, send it to me, along with the anticipated length of the teleconference, whom will be participating, and I can then determine based upon the agenda items, whether my participation is sufficient, or whether I need to ask additional MOECC technical staff to join in as well.

If you could also provide a list of suggested dates, and times, I could also check internally as to staff availability, that is if additional MOECC staff are needed.

Thanks in advance Jessalyn, and have a great day.

Craig Newton
Regional Environmental Planner / Regional EA Coordinator
Ministry of the Environment & Climate Change
Southwestern Region
(519) 873-5014



NOTICE OF PUBLIC INFORMATION CENTRE

CITY OF SARNIA

SCHEDULE 'C' CLASS ENVIRONMENTAL ASSESSMENT FOR SHORELINE PROTECTION OF CENTENNIAL PARK ALONG THE SARNIA BAY HARBOUR FRONT

The City of Sarnia is conducting a Municipal Class Environmental Assessment (EA) to investigate options for shoreline protection along the southern waterfront of Sarnia Bay in Centennial Park (the Park). The EA is also evaluating the removal of the existing boat ramps and installation of new ramps closer to the existing marina. The purpose of this study is to develop a recommended plan to provide shoreline protection that is necessary for implementation of a clean soil cap at the Park to address historical contaminants in fill material that was used during Park construction.

The study is proceeding in accordance with the *Municipal Class Environmental Assessment, October 2000, as amended in 2007, 2011 and 2014 – Schedule 'C'*.

The first Public Information Centre (PIC) for this study was held on October 14, 2015 to present preliminary study information. The second PIC for this study will be an open house to present the alternatives considered, the evaluation process used to arrive at the preliminary identification of the recommended design, and to obtain public input to the selection of the recommended design. Representatives of the City of Sarnia and Golder Associates Ltd. will be present to answer questions and discuss any issues or concerns regarding the Project.



The PIC is scheduled for:

Date: November 25, 2015

Location: City Hall, Council Chambers

Time: 6:30 p.m. to 8:00 p.m.

255 North Christina Street, Sarnia

Public input throughout the study is encouraged. With the exception of personal information, all comments received will be part of the public record. Upon completion of the study, an Environmental Study Report will be placed on the public record for a minimum 30 day review period.

If you have any comments or questions, or require information about the study or the Municipal Class EA process, please direct them to the persons listed below.

Joe Boothe

Superintendent, Environmental Services
City of Sarnia
255 North Christina Street, PO BOX 3018
Sarnia, Ontario, N7T 7N2
Phone: (519) 332-0527 ext. 3590
Fax: (519) 337-0736
Email: joe.boothe@sarnia.ca

Jessalyn Oke, B.Sc.

Environmental Assessment Specialist
Golder Associates Ltd.
6925 Century Avenue, Suite #100
Mississauga, Ontario, L5N 7K2
Phone: (905) 567 4444
Fax: (905) 567 6561
Email: Jessalyn_Oke@golder.com

Issued: October 31, 2015

From: [Oke, Jessalyn](#)
To: centennialpark@sarnia.ca
Subject: City of Sarnia - Shoreline Protection Project
Date: Saturday, October 31, 2015 12:00:00 PM
Attachments: [1413940 Notice of PIC 2.pdf](#)

Hello,

On behalf of the City of Sarnia, you are invited to the second Public Information Session for the Class Environmental Assessment for Shoreline Protection of Centennial Park along the Sarnia Bay Harbour Front. The open house is being held on November 25, 2015 and additional details are provided in the attached Notice.

The City of Sarnia is conducting a Municipal Class Environmental Assessment to investigate options for shoreline protection along the southern waterfront of Sarnia Bay in Centennial Park (the Park). The environmental assessment is also evaluating the removal of the existing boat ramps and installation of new ramps closer to the existing marina. The purpose of this study is to develop a recommended plan to provide shoreline protection that is necessary for implementation of a clean soil cap at the Park to address historical contaminants in fill material that was used during Park construction.

Kind regards,
Jessalyn Oke

Jessalyn Oke | Environmental Assessment Coordinator | **Golder Associates Ltd.**

6925 Century Avenue, Suite #100, Mississauga, Ontario, Canada L5N 7K2

T: +1 (905) 567 4444 | **D:** +1 (905) 567 6100 Ext. 1539 | **F:** +1 (905) 567 6561 | **C:** [REDACTED]
| **E:** Jessalyn_Oke@golder.com | www.golder.com

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Please consider the environment before printing this email.

From: [Oke, Jessalyn](#)
To: phileagan@cogeco.ca
Subject: City of Sarnia - Shoreline Protection Project
Date: Saturday, October 31, 2015 11:59:00 AM
Attachments: [1413940 Notice of PIC 2.pdf](#)

Hello,

On behalf of the City of Sarnia, you are invited to the second Public Information Session for the Class Environmental Assessment for Shoreline Protection of Centennial Park along the Sarnia Bay Harbour Front. The open house is being held on November 25, 2015 and additional details are provided in the attached Notice.

The City of Sarnia is conducting a Municipal Class Environmental Assessment to investigate options for shoreline protection along the southern waterfront of Sarnia Bay in Centennial Park (the Park). The environmental assessment is also evaluating the removal of the existing boat ramps and installation of new ramps closer to the existing marina. The purpose of this study is to develop a recommended plan to provide shoreline protection that is necessary for implementation of a clean soil cap at the Park to address historical contaminants in fill material that was used during Park construction.

Kind regards,
Jessalyn Oke

Jessalyn Oke | Environmental Assessment Coordinator | **Golder Associates Ltd.**

6925 Century Avenue, Suite #100, Mississauga, Ontario, Canada L5N 7K2

T: +1 (905) 567 4444 | **D:** +1 (905) 567 6100 Ext. 1539 | **F:** +1 (905) 567 6561 | **C:** [REDACTED]

| **E:** Jessalyn_Oke@golder.com | www.golder.com

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Please consider the environment before printing this email.

From: [REDACTED]
To: joe.boothe@sarnia.ca; [Oke, Jessalyn](#)
Subject: Shoreline Protection at Centennial Park
Date: Tuesday, November 03, 2015 12:23:30 PM

I am contacting you on behalf of the Aamjiwnaang First Nation Environment committee. They would like to invite you to come an environment committee meeting to share more information on the Shoreline Protection plan for Centennial Park.

The next Environment Committee meeting takes place on December 1 and 15 both starting at 5 pm. Please let me know if either of these times would work for you.

Sincerely,

[REDACTED]
Environment Consultation Worker
Aamjiwnaang First Nation


From: [Joe Boothe](#)
To: [REDACTED]
Cc: [Oke, Jessalyn](#); [Bryan Prouse](#)
Subject: RE: Shoreline Protection at Centennial Park
Date: Monday, November 09, 2015 12:27:09 PM

[REDACTED]




The City would be pleased to attend. To ensure the City prepares effectively, I have a few questions. Is a presentation expected or is this more of a question and answer scenario? Is it geared more towards the Shoreline Protection or to the construction aspect of the project?

Regards

Joe

 **Joe Boothe**
Superintendent, Environmental Services

City of Samia
2100 Confederation Line
Samia, ON N7T 7H3
Phone: 519-332-0527ext 3590
Fax: 519-337-0736
www.samia.ca



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From: [REDACTED]
Sent: November-03-15 12:24
To: Joe Boothe; Jessalyn_Oke@golder.com
Subject: Shoreline Protection at Centennial Park

I am contacting you on behalf of the Aamjiwnaang First Nation Environment committee. They would like to invite you to come an environment committee meeting to share more information on the Shoreline Protection plan for Centennial Park.

The next Environment Committee meeting takes place on December 1 and 15 both starting at 5 pm. Please let me know if either of these times would work for you.

Sincerely,



Environment Consultation Worker
Aamjiwnaang First Nation

From: [Muller, Joseph \(MTCS\)](#)
To: [Oke, Jessalyn](#)
Cc: [Joe Boothe](#)
Subject: RE: Notice of Commencement, Schedule 'C' Class EA, Centennial Park Shoreline Protection along Sarnia Bay Harbour Front
Date: Friday, November 06, 2015 2:40:53 PM

Hello Jessalyn Oke:

Thank-you for the notice of PIC #1 – based on pages 4 and 8 of the deck it looks like all cultural heritage resources (archaeology, built heritage and cultural heritage landscapes) are screened out of further review: please include the completed checklists in the ESR when it is submitted, to document that this has been included in the process. Thank-you for doing so, take care, and have a good weekend,

Joe

Joseph Muller, RPP, MCIP

Heritage Planner

Ministry of Tourism, Culture and Sport

Culture Division | Programs and Services Branch | Culture Services Unit

401 Bay Street, Suite 1700

Toronto, Ontario M7A 0A7

Tel. 416.314.7145 | Fax. 416.212.1802

From: Joe Boothe [mailto:joe.boothe@sarnia.ca]
Sent: June 22, 2015 12:23 PM
To: Muller, Joseph (MTCS)
Cc: Oke, Jessalyn
Subject: Re: Notice of Commencement, Schedule 'C' Class EA, Centennial Park Shoreline Protection along Sarnia Bay Harbour Front

Thank you Joseph, we will be in touch.

Joe

Sent from my BlackBerry 10 smartphone on the Bell network.

From: Muller, Joseph (MTCS)
Sent: Monday, June 22, 2015 12:02
To: Joe Boothe
Cc: [Jessalyn Oke@golder.ca](mailto:Jessalyn_Oke@golder.ca)
Subject: Notice of Commencement, Schedule 'C' Class EA, Centennial Park Shoreline Protection along Sarnia Bay Harbour Front

Hello Joe Boothe:

Please find attached our comments from the Culture Services Unit at the Ministry of Tourism, Culture and Sport on the above project, and contact me if you have any questions or would like to discuss the file. Thank-you for your assistance,

Joe

Joseph Muller, RPP, MCIP

Heritage Planner
Ministry of Tourism, Culture and Sport
Culture Division | Programs and Services Branch | Culture Services Unit
401 Bay Street, Suite 1700
Toronto, Ontario M7A 0A7
Tel. 416.314.7145 | Fax. 416.314.7175

Joe Boothe
Superintendent, Environmental Services
City of Sarnia
2100 Confederation Line
Sarnia, ON N7T 7H3
Phone: 519-332-0527ext 3590
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From: [REDACTED]
To: [Joe Boothe](#)
Cc: [Oke, Jessalyn](#); [Bryan Prouse](#)
Subject: RE: Shoreline Protection at Centennial Park
Date: Tuesday, November 10, 2015 9:36:13 AM

Hi Joe,

The City would be presenting to a presentation to the Environment Committee who is made up of 3 Community members and 2 Councillors. The Environment Department Staff would also be present, there are 4 of us. I would include more information on the Shoreline Protection and a general overview of construction including a timeline.

The meeting takes place at our Community Centre [REDACTED]. And the City is on the agenda for 5 pm.

Which day works best December 1st or December 15th ?

[REDACTED]

From: Joe Boothe [mailto:joe.boothe@sarnia.ca]
Sent: November-09-15 12:27 PM
To: [REDACTED]
Cc: 'Oke, Jessalyn' <Jessalyn_Oke@golder.com>; Bryan Prouse <bryan.prouse@sarnia.ca>
Subject: RE: Shoreline Protection at Centennial Park

[REDACTED]

The City would be pleased to attend. To ensure the City prepares effectively, I have a few questions. Is a presentation expected or is this more of a question and answer scenario? Is it geared more towards the Shoreline Protection or to the construction aspect of the project?

Regards

Joe

Joe Boothe
Superintendent, Environmental Services
City of Sarnia
2100 Confederation Line
Sarnia, ON N7T 7H3
Phone: 519-332-0527ext 3590
Fax: 519-337-0736
www.sarnia.ca

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From: [REDACTED]
Sent: November-03-15 12:24
To: Joe Boothe; Jessalyn_Oke@golder.com
Subject: Shoreline Protection at Centennial Park

I am contacting you on behalf of the Aamjiwnaang First Nation Environment committee. They would like to invite you to come an environment committee meeting to share more information on the Shoreline Protection plan for Centennial Park.

The next Environment Committee meeting takes place on December 1 and 15 both starting at 5 pm. Please let me know if either of these times would work for you.

Sincerely,

[REDACTED]
Environment Consultation Worker
Aamjiwnaang First Nation

From: Oke, Jessalyn
To: "[Muller, Joseph \(MTCS\)](#)"
Cc: [Joe Boothe](#); [Ott, Wendy](#); [Daechsel, Hugh](#)
Subject: RE: Notice of Commencement, Schedule 'C' Class EA, Centennial Park Shoreline Protection along Sarnia Bay Harbour Front
Date: Wednesday, November 11, 2015 3:39:00 PM

Hi Joseph,

In follow-up to the voicemail I left this afternoon at 3:30 pm, the City of Sarnia and Golder Associates would like to hold a conference call with yourself to discuss the municipal class environmental assessment for the Centennial Park Shoreline Protection along Sarnia Bay Harbour Project. Specifically, we would like to discuss cultural heritage.

We propose holding the call tomorrow, November 11 at 1:30 pm. Alternatively, we are also available the morning on Monday November 16 between 9:30 am to noon. Please advise if either of these times are preferred, or suggest an alternative date/time that works for you. Once confirmed, I will provide a conference call number.

I look forward to discussing the project with you,
Jessalyn Oke

Jessalyn Oke | Environmental Assessment Coordinator | **Golder Associates Ltd.**
6925 Century Avenue, Suite #100, Mississauga, Ontario, Canada L5N 7K2
T: +1 (905) 567 4444 | **D:** +1 (905) 567 6100 Ext. 1539 | **F:** +1 (905) 567 6561 | **C:** [REDACTED]
E: Jessalyn_Oke@golder.com | www.golder.com

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From: Muller, Joseph (MTCS) [mailto:Joseph.Muller@ontario.ca]
Sent: Friday, November 06, 2015 2:41 PM
To: Oke, Jessalyn
Cc: Joe Boothe
Subject: RE: Notice of Commencement, Schedule 'C' Class EA, Centennial Park Shoreline Protection along Sarnia Bay Harbour Front

Hello Jessalyn Oke:

Thank-you for the notice of PIC #1 – based on pages 4 and 8 of the deck it looks like all cultural heritage resources (archaeology, built heritage and cultural heritage landscapes) are screened out of further review: please include the completed checklists in the ESR when it is submitted, to document that this has been included in the process. Thank-you for doing so, take care, and have a good weekend,

Joe
Joseph Muller, RPP, MCIP

Heritage Planner
Ministry of Tourism, Culture and Sport
Culture Division | Programs and Services Branch | Culture Services Unit
401 Bay Street, Suite 1700
Toronto, Ontario M7A 0A7
Tel. 416.314.7145 | Fax. 416.212.1802

From: Joe Boothe [<mailto:joe.boothe@sarnia.ca>]
Sent: June 22, 2015 12:23 PM
To: Muller, Joseph (MTCS)
Cc: Oke, Jessalyn
Subject: Re: Notice of Commencement, Schedule 'C' Class EA, Centennial Park Shoreline Protection along Sarnia Bay Harbour Front

Thank you Joseph, we will be in touch.

Joe

Sent from my BlackBerry 10 smartphone on the Bell network.

From: Muller, Joseph (MTCS)
Sent: Monday, June 22, 2015 12:02
To: Joe Boothe
Cc: Jessalyn_Oke@golder.ca
Subject: Notice of Commencement, Schedule 'C' Class EA, Centennial Park Shoreline Protection along Sarnia Bay Harbour Front

Hello Joe Boothe:

Please find attached our comments from the Culture Services Unit at the Ministry of Tourism, Culture and Sport on the above project, and contact me if you have any questions or would like to discuss the file. Thank-you for your assistance,

Joe

Joseph Muller, RPP, MCIP
Heritage Planner
Ministry of Tourism, Culture and Sport
Culture Division | Programs and Services Branch | Culture Services Unit
401 Bay Street, Suite 1700
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Tel. 416.314.7145 | Fax. 416.314.7175

Joe Boothe
Superintendent, Environmental Services
City of Sarnia
2100 Confederation Line
Sarnia, ON N7T 7H3

Phone: 519-332-0527ext 3590
Fax: 519-337-0736
www.sarnia.ca

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From: [Muller, Joseph \(MTCS\)](#)
To: [Oke, Jessalyn](#)
Cc: [Joe Boothe](#); [Ott, Wendy](#); [Daechsel, Hugh](#)
Subject: RE: Notice of Commencement, Schedule 'C' Class EA, Centennial Park Shoreline Protection along Sarnia Bay Harbour Front
Date: Wednesday, November 11, 2015 3:54:22 PM

Hi Jessalyn:

May I presume you mean tomorrow November 12 at 1:30? If so, that works for me. Otherwise, the morning of the 16th works well, too: less so the afternoon. Take care,

Joe

From: Oke, Jessalyn [Jessalyn_Oke@golder.com]
Sent: November 11, 2015 3:39 PM
To: Muller, Joseph (MTCS)
Cc: Joe Boothe; Ott, Wendy; Daechsel, Hugh
Subject: RE: Notice of Commencement, Schedule 'C' Class EA, Centennial Park Shoreline Protection along Sarnia Bay Harbour Front

Hi Joseph,

In follow-up to the voicemail I left this afternoon at 3:30 pm, the City of Sarnia and Golder Associates would like to hold a conference call with yourself to discuss the municipal class environmental assessment for the Centennial Park Shoreline Protection along Sarnia Bay Harbour Project. Specifically, we would like to discuss cultural heritage.

We propose holding the call tomorrow, November 11 at 1:30 pm. Alternatively, we are also available the morning on Monday November 16 between 9:30 am to noon. Please advise if either of these times are preferred, or suggest an alternative date/time that works for you. Once confirmed, I will provide a conference call number.

I look forward to discussing the project with you,
Jessalyn Oke

Jessalyn Oke | Environmental Assessment Coordinator | Golder Associates Ltd.
6925 Century Avenue, Suite #100, Mississauga, Ontario, Canada L5N 7K2
T: +1 (905) 567 4444 | D: +1 (905) 567 6100 Ext. 1539 | F: +1 (905) 567 6561 | C: [REDACTED]
| E: Jessalyn_Oke@golder.com<mailto:Jessalyn_Oke@golder.com> | www.golder.com<<http://www.golder.com/>>

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Please consider the environment before printing this email.

From: Muller, Joseph (MTCS) [<mailto:Joseph.Muller@ontario.ca>]
Sent: Friday, November 06, 2015 2:41 PM
To: Oke, Jessalyn

Cc: Joe Boothe
Subject: RE: Notice of Commencement, Schedule 'C' Class EA, Centennial Park Shoreline Protection along Sarnia Bay Harbour Front

Hello Jessalyn Oke:

Thank-you for the notice of PIC #1 – based on pages 4 and 8 of the deck it looks like all cultural heritage resources (archaeology, built heritage and cultural heritage landscapes) are screened out of further review: please include the completed checklists in the ESR when it is submitted, to document that this has been included in the process.
Thank-you for doing so, take care, and have a good weekend,

Joe
Joseph Muller, RPP, MCIP
Heritage Planner
Ministry of Tourism, Culture and Sport
Culture Division | Programs and Services Branch | Culture Services Unit
401 Bay Street, Suite 1700
Toronto, Ontario M7A 0A7
Tel. 416.314.7145 | Fax. 416.212.1802

From: Joe Boothe [<mailto:joe.boothe@sarnia.ca>]
Sent: June 22, 2015 12:23 PM
To: Muller, Joseph (MTCS)
Cc: Oke, Jessalyn
Subject: Re: Notice of Commencement, Schedule 'C' Class EA, Centennial Park Shoreline Protection along Sarnia Bay Harbour Front

Thank you Joseph, we will be in touch.

Joe

Sent from my BlackBerry 10 smartphone on the Bell network.
From: Muller, Joseph (MTCS)
Sent: Monday, June 22, 2015 12:02
To: Joe Boothe
Cc: Jessalyn_Oke@golder.ca<mailto:Jessalyn_Oke@golder.ca>
Subject: Notice of Commencement, Schedule 'C' Class EA, Centennial Park Shoreline Protection along Sarnia Bay Harbour Front

Hello Joe Boothe:

Please find attached our comments from the Culture Services Unit at the Ministry of Tourism, Culture and Sport on the above project, and contact me if you have any questions or would like to discuss the file. Thank-you for your assistance,

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Heritage Planner
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Tel. 416.314.7145 | Fax. 416.314.7175

[Welcome to the City of Sarnia]<<http://sarnia.ca>>Joe Boothe
Superintendent, Environmental Services
City of Sarnia[X]
2100 Confederation Line
Sarnia, ON N7T 7H3
Phone: 519-332-0527ext 3590
Fax: 519-337-0736[Join Us on Facebook]<<https://www.facebook.com/cityofsarnia>>[Follow Us on Twitter]
<https://twitter.com/Sarnia_Ontario>
www.sarnia.ca<<http://www.sarnia.ca>>

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From: Oke, Jessalyn
To: "[Muller, Joseph \(MTCS\)](#)"
Cc: [Joe Boothe](#); [Ott, Wendy](#); [Daechsel, Hugh](#)
Subject: RE: Notice of Commencement, Schedule 'C' Class EA, Centennial Park Shoreline Protection along Sarnia Bay Harbour Front
Date: Wednesday, November 11, 2015 3:56:00 PM

Hi Joe,

Yes, my apologies, a correction to the email below: the first proposed window is for tomorrow November 12 at 1:30 pm, not the 11th as you have indicated. I will send a meeting invite and conference call number for this time.

Speak soon,
Jessalyn Oke

Jessalyn Oke | Environmental Assessment Coordinator | Golder Associates Ltd.
6925 Century Avenue, Suite #100, Mississauga, Ontario, Canada L5N 7K2
T: +1 (905) 567 4444 | D: +1 (905) 567 6100 Ext. 1539 | F: +1 (905) 567 6561 | C: [REDACTED]
| E: Jessalyn_Oke@golder.com | www.golder.com

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-----Original Message-----

From: Muller, Joseph (MTCS) [<mailto:Joseph.Muller@ontario.ca>]
Sent: Wednesday, November 11, 2015 3:54 PM
To: Oke, Jessalyn
Cc: Joe Boothe; Ott, Wendy; Daechsel, Hugh
Subject: RE: Notice of Commencement, Schedule 'C' Class EA, Centennial Park Shoreline Protection along Sarnia Bay Harbour Front

Hi Jessalyn:

May I presume you mean tomorrow November 12 at 1:30? If so, that works for me. Otherwise, the morning of the 16th works well, too: less so the afternoon. Take care,

Joe

From: Oke, Jessalyn [Jessalyn_Oke@golder.com]
Sent: November 11, 2015 3:39 PM
To: Muller, Joseph (MTCS)
Cc: Joe Boothe; Ott, Wendy; Daechsel, Hugh
Subject: RE: Notice of Commencement, Schedule 'C' Class EA, Centennial Park Shoreline Protection along Sarnia Bay Harbour Front

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Jessalyn Oke | Environmental Assessment Coordinator | Golder Associates Ltd.

6925 Century Avenue, Suite #100, Mississauga, Ontario, Canada L5N 7K2

T: +1 (905) 567 4444 | D: +1 (905) 567 6100 Ext. 1539 | F: +1 (905) 567 6561 | C: [REDACTED]

| E: Jessalyn_Oke@golder.com<mailto:Jessalyn_Oke@golder.com> |

| www.golder.com<<http://www.golder.com/>>

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Thank-you for doing so, take care, and have a good weekend,

Joe

Joseph Muller, RPP, MCIP

Heritage Planner

Ministry of Tourism, Culture and Sport

Culture Division | Programs and Services Branch | Culture Services Unit

401 Bay Street, Suite 1700

Toronto, Ontario M7A 0A7

Tel. 416.314.7145 | Fax. 416.212.1802

From: Joe Boothe [<mailto:joe.boothe@sarnia.ca>]

Sent: June 22, 2015 12:23 PM

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Subject: Re: Notice of Commencement, Schedule 'C' Class EA, Centennial Park Shoreline Protection along Sarnia Bay Harbour Front

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Joe

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From: Muller, Joseph (MTCS)
Sent: Monday, June 22, 2015 12:02
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Cc: Jessalyn_Oke@golder.ca<mailto:Jessalyn_Oke@golder.ca>
Subject: Notice of Commencement, Schedule 'C' Class EA, Centennial Park Shoreline Protection along Sarnia Bay Harbour Front

Hello Joe Boothe:

Please find attached our comments from the Culture Services Unit at the Ministry of Tourism, Culture and Sport on the above project, and contact me if you have any questions or would like to discuss the file. Thank-you for your assistance, Joe Joseph Muller, RPP, MCIP Heritage Planner Ministry of Tourism, Culture and Sport Culture Division | Programs and Services Branch | Culture Services Unit
401 Bay Street, Suite 1700
Toronto, Ontario M7A 0A7
Tel. 416.314.7145 | Fax. 416.314.7175

[Welcome to the City of Sarnia]<<http://sarnia.ca/>>Joe Boothe Superintendent, Environmental Services City of Sarnia[X]
2100 Confederation Line
Sarnia, ON N7T 7H3
Phone: 519-332-0527ext 3590
Fax: 519-337-0736[Join Us on Facebook]<<https://www.facebook.com/cityofsarnia>>[Follow Us on Twitter]
<https://twitter.com/Sarnia_Ontario>
www.sarnia.ca<<http://www.sarnia.ca>>

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From: [Oke, Jessalyn](#)
To: [Joe Boothe](#); "[Muller, Joseph \(MTCS\)](#)"; [Daechsel, Hugh](#)
Cc: [Ott, Wendy](#)
Subject: Centennial Park Shoreline Protection along Samia Bay Harbour Front
Start: Thursday, November 12, 2015 1:30:00 PM
End: Thursday, November 12, 2015 2:30:00 PM
Location: Online Meeting

Hello everyone,

The purpose of this meeting is to discuss cultural heritage for the City of Samia's municipal class environmental assessment for the Centennial Park Shoreline Protection along Samia Bay Harbour Project.

.....
HYPERLINK "https://meet.golder.com/jessalyn_oke/GFMLNVP2" Join online meeting
https://meet.golder.com/jessalyn_oke/GFMLNVP2

Join by Phone



Conference ID: 12901895

HYPERLINK "<https://dialin.golder.com>"Forgot your dial-in PIN? | HYPERLINK "<http://r.office.microsoft.com/r/rlidOC10?clid=1033&p1=4&p2=1041&pc=oc&ver=4&subver=0&bld=7185&bldver=0>"First online meeting?
[!OC([1033])!]
.....

From: [Joe Boothe](#)
To: [REDACTED]
Cc: [Oke, Jessalyn](#); [Bryan Prouse](#); [Schwerzmann, Marc](#)
Subject: Re: Shoreline Protection at Centennial Park
Date: Monday, November 16, 2015 3:32:15 PM

[REDACTED]

As discussed today, a presentation with an overview of the EA and staff available to speak to the construction aspect will be present. The City will attend the December 1st meeting. To finalize our presentation what is the approximate time preferred for a presentation?

Regards

Joe

Sent from my BlackBerry 10 smartphone on the Bell network.

From: [REDACTED]
Sent: Tuesday, November 10, 2015 09:36
To: Joe Boothe
Cc: 'Oke, Jessalyn'; Bryan Prouse
Subject: RE: Shoreline Protection at Centennial Park

Hi Joe,

The City would be presenting to a presentation to the Environment Committee who is made up of 3 Community members and 2 Councillors. The Environment Department Staff would also be present, there are 4 of us. I would include more information on the Shoreline Protection and a general overview of construction including a timeline.

The meeting takes place at our Community Centre [REDACTED]. And the City is on the agenda for 5 pm.

Which day works best December 1st or December 15th ?

[REDACTED]

From: Joe Boothe [mailto:joe.boothe@sarnia.ca]
Sent: November-09-15 12:27 PM
To: [REDACTED]
Cc: 'Oke, Jessalyn' <Jessalyn_Oke@golder.com>; Bryan Prouse <bryan.prouse@sarnia.ca>
Subject: RE: Shoreline Protection at Centennial Park

[REDACTED]

The City would be pleased to attend. To ensure the City prepares effectively, I have a few questions. Is a presentation expected or is this more of a question and answer scenario? Is

it geared more towards the Shoreline Protection or to the construction aspect of the project?

Regards

Joe



Joe Boothe
Superintendent, Environmental Services

City of Sarnia
2100 Confederation Line
Sarnia, ON N7T 7H3
Phone: 519-332-0527ext 3590
Fax: 519-337-0736
www.sarnia.ca



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From: [Redacted]
Sent: November-03-15 12:24
To: Joe Boothe; [Jessalyn Oke@golder.com](mailto:Jessalyn_Oke@golder.com)
Subject: Shoreline Protection at Centennial Park

I am contacting you on behalf of the Aamjiwnaang First Nation Environment committee. They would like to invite you to come an environment committee meeting to share more information on the Shoreline Protection plan for Centennial Park.

The next Environment Committee meeting takes place on December 1 and 15 both starting at 5 pm. Please let me know if either of these times would work for you.

Sincerely,



Environment Consultation Worker
Aamjiwnaang First Nation

From: [REDACTED]
To: [Joe Boothe](mailto:Joe.Boothe)
Cc: [Oke, Jessalyn](mailto:Oke.Jessalyn); [Bryan Prouse](mailto:Bryan.Prouse); [Schwerzmann, Marc](mailto:Schwerzmann.Marc)
Subject: RE: Shoreline Protection at Centennial Park
Date: Monday, November 16, 2015 3:33:33 PM

Hi Joe,
30 minutes total for presentation and questions.

[REDACTED]

From: Joe Boothe [mailto:joe.boothe@sarnia.ca]
Sent: November-16-15 3:32 PM
To: [REDACTED] <
Cc: 'Oke, Jessalyn' <Jessalyn_Oke@golder.com>; Bryan Prouse <bryan.prouse@sarnia.ca>; Marc Schwerzmann <Marc_Schwerzmann@golder.com>
Subject: Re: Shoreline Protection at Centennial Park

[REDACTED]

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Which day works best December 1st or December 15th ?

[REDACTED]

From: Joe Boothe [<mailto:joe.boothe@sarnia.ca>]

Sent: November-09-15 12:27 PM

To: [REDACTED]

Cc: 'Oke, Jessalyn' <Jessalyn_Oke@golder.com>; Bryan Prouse <bryan.prouse@sarnia.ca>

Subject: RE: Shoreline Protection at Centennial Park

[REDACTED]

The City would be pleased to attend. To ensure the City prepares effectively, I have a few questions. Is a presentation expected or is this more of a question and answer scenario? Is it geared more towards the Shoreline Protection or to the construction aspect of the project?

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Joe Boothe
Superintendent, Environmental Services
City of Sarnia
2100 Confederation Line
Sarnia, ON N7T 7H3
Phone: 519-332-0527ext 3590
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[REDACTED]

Environment Consultation Worker
Aamjiwnaang First Nation

From: [Joe Boothe](#)
To: [REDACTED]
Cc: [Oke, Jessalyn](#); [Bryan Prouse](#); [Schwerzmann, Marc](#)
Subject: Re: Shoreline Protection at Centennial Park
Date: Monday, November 16, 2015 3:43:10 PM

Thanks [REDACTED]

Regards

Joe

Sent from my BlackBerry 10 smartphone on the Bell network.

From: [REDACTED]
Sent: Monday, November 16, 2015 15:33
To: Joe Boothe
Cc: 'Oke, Jessalyn'; Bryan Prouse; Marc Schwerzmann
Subject: RE: Shoreline Protection at Centennial Park

Hi Joe,
30 minutes total for presentation and questions.

[REDACTED]

From: Joe Boothe [mailto:joe.boothe@sarnia.ca]
Sent: November-16-15 3:32 PM
To: [REDACTED]
Cc: 'Oke, Jessalyn' <Jessalyn_Oke@golder.com>; Bryan Prouse <bryan.prouse@sarnia.ca>; Marc Schwerzmann <Marc_Schwerzmann@golder.com>
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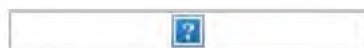
From: Joe Boothe [<mailto:joe.boothe@sarnia.ca>]
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Environment Consultation Worker
Aamjiwnaang First Nation

From: Oke, Jessalyn
To: [Joe Boothe; bryan.prouse@sarnia.ca](mailto:Joe.Boothe@bryan.prouse@sarnia.ca); [Andre Morin \(andre.morin@sarnia.ca\)](mailto:Andre.Morin@andre.morin@sarnia.ca); "Beth Gignac (beth.gignac@sarnia.ca)" (beth.gignac@sarnia.ca); [Muller, Joseph \(MTCS\) \(Joseph.Muller@ontario.ca\)](mailto:Muller.Joseph@MTCS)
Cc: [Ott, Wendy](mailto:Ott.Wendy); [Daechsel, Hugh](mailto:Daechsel.Hugh); [Douglas, Jennifer](mailto:Douglas.Jennifer)
Subject: Shoreline Protection of Sarnia Bay - Heritage
Date: Wednesday, November 18, 2015 1:28:00 PM
Attachments: [1413940 Meeting 5 Minutes - November 12 2015.pdf](#)

Hello everyone,

Please find attached the minutes from the conference call between the Ministry of Tourism, Cultural and Sport, City of Sarnia and Golder Associated Ltd. that was held on November 12, 2015. Please retain a copy of these minutes for your project records.

Kind regards,
Jessalyn

Jessalyn Oke | Environmental Assessment Coordinator | **Golder Associates Ltd.**

6925 Century Avenue, Suite #100, Mississauga, Ontario, Canada L5N 7K2

T: +1 (905) 567 4444 | **D:** +1 (905) 567 6100 Ext. 1539 | **F:** +1 (905) 567 6561 | **C:** 

| **E:** Jessalyn_Oke@golder.com | www.golder.com

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MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT STUDY FOR THE SHORELINE PROTECTION OF CENTENNIAL PARK MEETING MINUTES

PURPOSE Discuss Built and Cultural Heritage

DATE November 12, 2015

PROJECT No. 1413940, 7000

ATTENDEES Joseph Muller (Ministry of Tourism, Culture and Sport)
Joe Boothe (City of Sarnia)
Jessalyn Oke, Hugh Daechsel, Henry Cary (Golder Associates Ltd.)

The City of Sarnia (City) and Golder Associates Ltd. (Golder) held a conference call with the Ministry of Tourism, Culture and Sport (MTCS) on November 12, 2015 to discuss Built and Cultural Heritage and confirm that the approach to the environmental assessment (EA) meets the MTCS' requirements.

Discussion Item	Discussion	Action
1. Project Overview	<ul style="list-style-type: none"> The City is undertaking a Schedule 'C' Municipal Class EA for shoreline protection along Sarnia Bay at Centennial Park (the Park) Shoreline protection is necessary to allow the City to proceed with a clean soil cap to contain contamination within the Park, which is the result of contaminated fill being used when the Park was constructed The Park was built through infilling of Sarnia Bay to current conditions 	None
2. Municipal Class EA Study Area – Features in the Park	<ul style="list-style-type: none"> The EA study area includes Park lands within 30 m of the shoreline of Sarnia Bay at Centennial Park The following memorial features are located within the study area: <ul style="list-style-type: none"> Victims of Chemical Valley Missing Worker Memorial, a sculpture to remember those who have died from asbestos-related disease Victorian Order of Nurses (VON) Memorial Garden fountain, a memorial to honour deceased loved-ones and donate to VON, a non-profit organization offering home care Footsteps Tribute to Courage – Never Walk Alone, a series of flagstones created to show courage and increase the community's awareness of violence, sexual assault and sexual abuse 	None
3. Approach to Built and Cultural Heritage	<ul style="list-style-type: none"> The City has completed the <i>Criteria for Evaluating Potential for Built Heritage Resources and Cultural Heritage Landscapes</i> checklist and determined that no further studies are necessary <ul style="list-style-type: none"> The Project is not located within a heritage landscape and the memorial features are not included on a heritage register or municipal heritage list As part of the City's Park rehabilitation work, the City has committed to maintain and reinstate the identified memorial features within the Park <ul style="list-style-type: none"> The City is consulting with the stakeholders who manage each of the memorial features to identify the final location of the features in the Park; they are working with the landscape architects designing the final configuration of the rehabilitated Park 	None



MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT STUDY FOR THE SHORELINE PROTECTION OF CENTENNIAL PARK MEETING MINUTES

Discussion Item	Discussion	Action
4. MTCS Guidance	<ul style="list-style-type: none">• The MTCS confirmed that although the features may meet some of the requirements of Ontario Regulation 9/06, the features do not necessitate a formal evaluation (i.e., Cultural Heritage Evaluation or Heritage Impact Assessment)• The identified memorial features are not considered built or cultural resources; however, the EA should document them and identify the City's plans to maintain the features<ul style="list-style-type: none">• EA to include completed checklist, record of this discussion, City plans to maintain and reinstate the features, and Joseph's email of November 6, 2015 confirming the results of the checklist	<ol style="list-style-type: none">1. Golder to prepare meeting minutes2. City and Golder to include supporting documentation within EA report

December 1, 2015

Project No. 1413940

Environmental Coordinator Sharilyn Johnston
Aamjiwnaang First Nation Health and Environment Committee
978 Tashmoo Avenue
Sarnia, Ontario N7T 7H5

SCHEDULE 'C' CLASS ENVIRONMENTAL ASSESSMENT FOR SHORELINE PROTECTION OF CENTENNIAL PARK ALONG THE SARNIA BAY HARBOUR FRONT

Dear Environmental Coordinator Sharilyn Johnston,

The City of Sarnia has initiated the Municipal Class Environmental Assessment (EA) for the investigation of shoreline protection options along the southern waterfront of Sarnia Bay in Centennial Park (the Park). The EA also considers the removal of the existing boat ramps and installation of new ramps closer to the existing marina. The purpose of this study is to develop a recommended plan to provide shoreline protection that is necessary for implementation of a clean soil cap at the Park to address historical contaminants in fill that was used during Park construction.

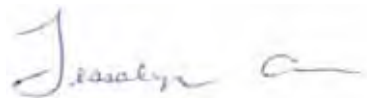
The study is being completed in accordance with the *Municipal Class Environmental Assessment, October 2000, as amended in 2007, 2011 and 2014 – Schedule 'C'*.

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An important part of the EA process is engaging potentially-affected Aboriginal communities and we look forward to the Aamjiwnaang First Nation Environment Committee meeting on December 1, 2015.

If you have any questions or comments, please feel free to contact the undersigned using the contact information provided below.

Respectfully,



Jessalyn Oke
Environmental Assessment Specialist
6925 Century Avenue, Suite #100
Mississauga, Ontario, L5N 7K2
Phone: (905) 567-6100 x1539
Email: Jessalyn_Oke@golder.com
Attachments: PIC 1 Display Boards and Comment Form



December 1, 2015

Project No. 1413940

Chief Tom Bressette
Chippewas of Kettle and Stony Point First Nation
6247 Indian Lane
Kettle and Stony Point First Nation, N0N 1J1

SCHEDULE 'C' CLASS ENVIRONMENTAL ASSESSMENT FOR SHORELINE PROTECTION OF CENTENNIAL PARK ALONG THE SARNIA BAY HARBOUR FRONT

Dear Chief Tom Bressette,

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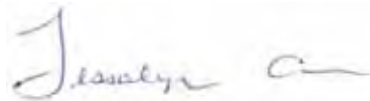
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An important part of the EA process is engaging potentially-affected Aboriginal communities. We would like to thank you for Suzanne Bressette's letter of November 26, 2015, and will continue to advise the Chippewas of Kettle and Stony Point First Nation of this project.

If you have any questions or comments, please feel free to contact the undersigned using the contact information provided below.

Respectfully,



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Environmental Assessment Specialist
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December 1, 2015

Project No. 1413940

Chief Dan Miskokomon
Bkejwanong (Walpole Island First Nation)
RR #3
Walpole Island, Ontario N8A 4K9

SCHEDULE 'C' CLASS ENVIRONMENTAL ASSESSMENT FOR SHORELINE PROTECTION OF CENTENNIAL PARK ALONG THE SARNIA BAY HARBOUR FRONT

Dear Chief Dan Miskokomon,

The City of Sarnia has initiated the Municipal Class Environmental Assessment (EA) for the investigation of shoreline protection options along the southern waterfront of Sarnia Bay in Centennial Park (the Park). The EA also considers the removal of the existing boat ramps and installation of new ramps closer to the existing marina. The purpose of this study is to develop a recommended plan to provide shoreline protection that is necessary for implementation of a clean soil cap at the Park to address historical contaminants in fill that was used during Park construction.

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December 1, 2015

Project No. 1413940

Chief Sheri Doxtator
Oneida Nation of the Thames First Nation
2212 Elm Avenue
Southwood, Ontario N0L 2G0

SCHEDULE 'C' CLASS ENVIRONMENTAL ASSESSMENT FOR SHORELINE PROTECTION OF CENTENNIAL PARK ALONG THE SARNIA BAY HARBOUR FRONT

Dear Chief Sheri Doxtator,

The City of Sarnia has initiated the Municipal Class Environmental Assessment (EA) for the investigation of shoreline protection options along the southern waterfront of Sarnia Bay in Centennial Park (the Park). The EA also considers the removal of the existing boat ramps and installation of new ramps closer to the existing marina. The purpose of this study is to develop a recommended plan to provide shoreline protection that is necessary for implementation of a clean soil cap at the Park to address historical contaminants in fill that was used during Park construction.

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December 1, 2015

Project No. 1413940

Chief Joe Miskokomon
Chippewas of the Thames First Nation
320 Chippewa Road
Muncey, Ontario N0L 1Y0

SCHEDULE 'C' CLASS ENVIRONMENTAL ASSESSMENT FOR SHORELINE PROTECTION OF CENTENNIAL PARK ALONG THE SARNIA BAY HARBOUR FRONT

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December 1, 2015

Project No. 1413940

Chief Roger Thomas
Munsee-Delaware First Nation
289 Jubilee Road
Muncey, Ontario N0L 1Y0

SCHEDULE 'C' CLASS ENVIRONMENTAL ASSESSMENT FOR SHORELINE PROTECTION OF CENTENNIAL PARK ALONG THE SARNIA BAY HARBOUR FRONT

Dear Chief Roger Thomas,

The City of Sarnia has initiated the Municipal Class Environmental Assessment (EA) for the investigation of shoreline protection options along the southern waterfront of Sarnia Bay in Centennial Park (the Park). The EA also considers the removal of the existing boat ramps and installation of new ramps closer to the existing marina. The purpose of this study is to develop a recommended plan to provide shoreline protection that is necessary for implementation of a clean soil cap at the Park to address historical contaminants in fill that was used during Park construction.

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Phone: (905) 567-6100 x1539
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Attachments: PIC 1 Display Boards and Comment Form



December 1, 2015

Project No. 1413940

Chief Greg Peters
Delaware Nation
14760 School House Line
Thamesville, Ontario N0P 2K0

SCHEDULE 'C' CLASS ENVIRONMENTAL ASSESSMENT FOR SHORELINE PROTECTION OF CENTENNIAL PARK ALONG THE SARNIA BAY HARBOUR FRONT

Dear Chief Greg Peters,

The City of Sarnia has initiated the Municipal Class Environmental Assessment (EA) for the investigation of shoreline protection options along the southern waterfront of Sarnia Bay in Centennial Park (the Park). The EA also considers the removal of the existing boat ramps and installation of new ramps closer to the existing marina. The purpose of this study is to develop a recommended plan to provide shoreline protection that is necessary for implementation of a clean soil cap at the Park to address historical contaminants in fill that was used during Park construction.

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December 1, 2015

Project No. 1413940

Chief Louise Hillier
Caldwell First Nation
14 Orange Street
Leamington, Ontario N8H P5

SCHEDULE 'C' CLASS ENVIRONMENTAL ASSESSMENT FOR SHORELINE PROTECTION OF CENTENNIAL PARK ALONG THE SARNIA BAY HARBOUR FRONT

Dear Chief Louise Hillier,

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**SHORELINE
PROTECTION
OF CENTENNIAL PARK
SARNIA BAY HARBOUR FRONT**

**PUBLIC INFORMATION
CENTRE**

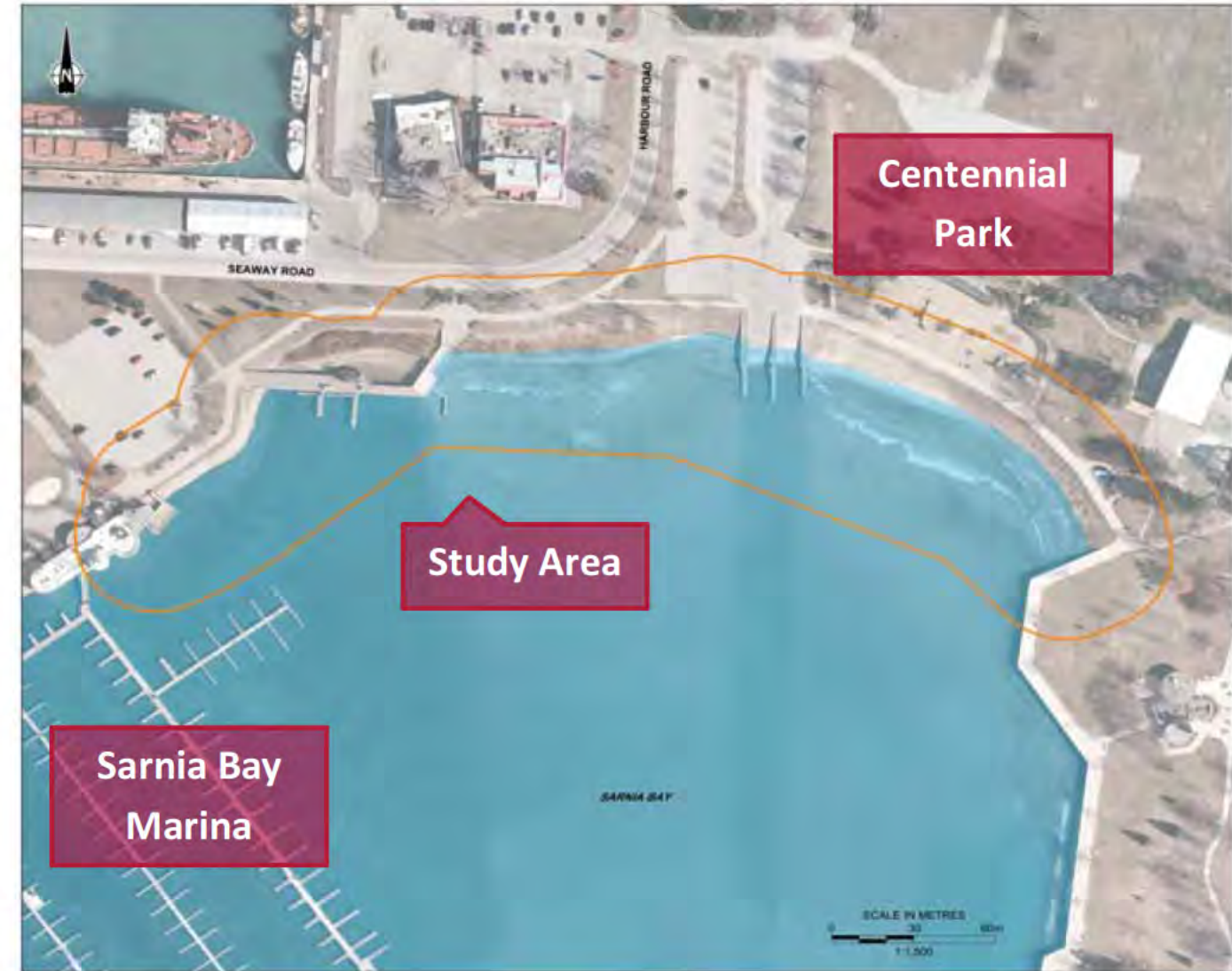
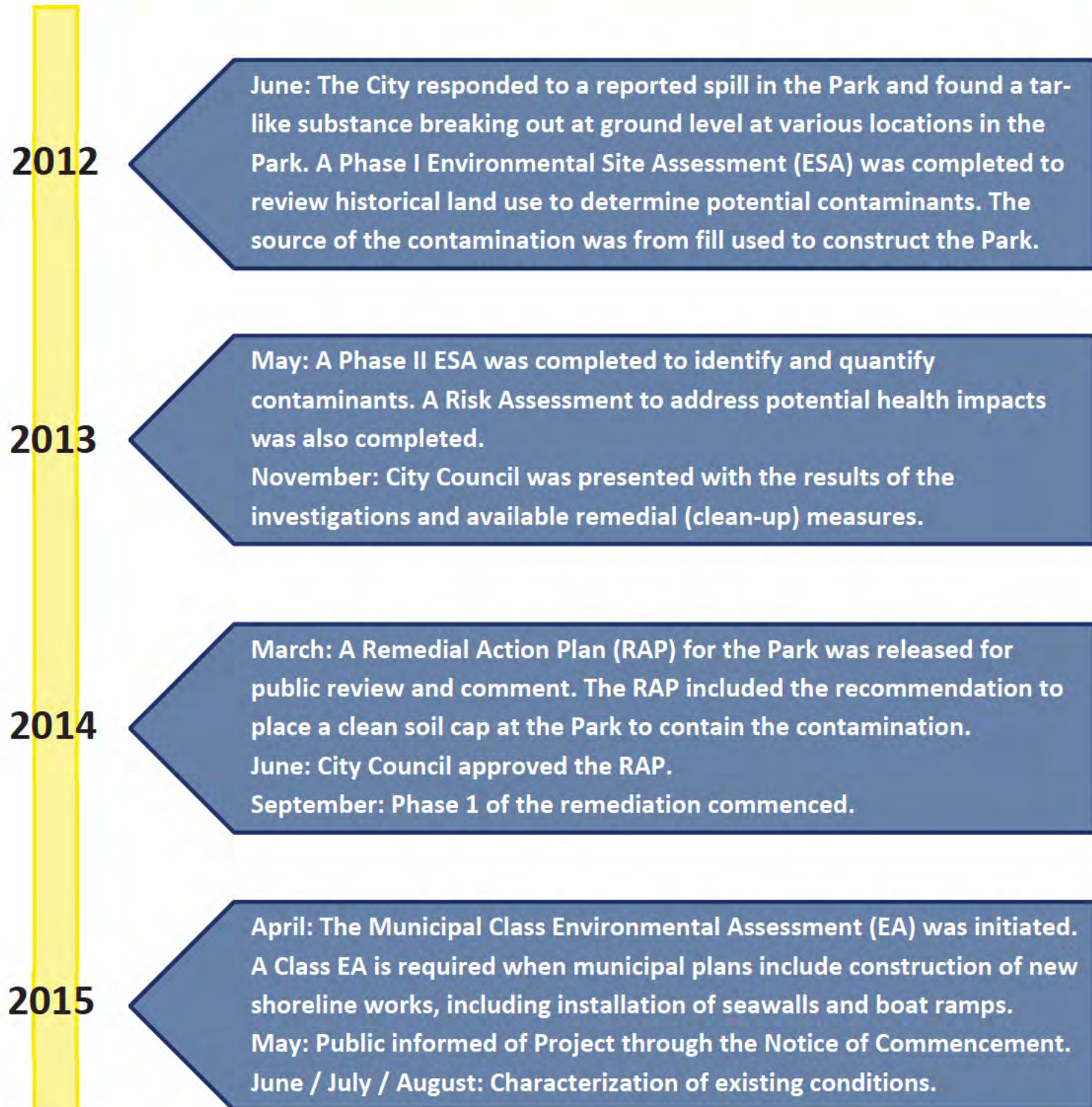
November 25, 2015

City Hall, Council Chambers

**Municipal Class
Environmental
Assessment**

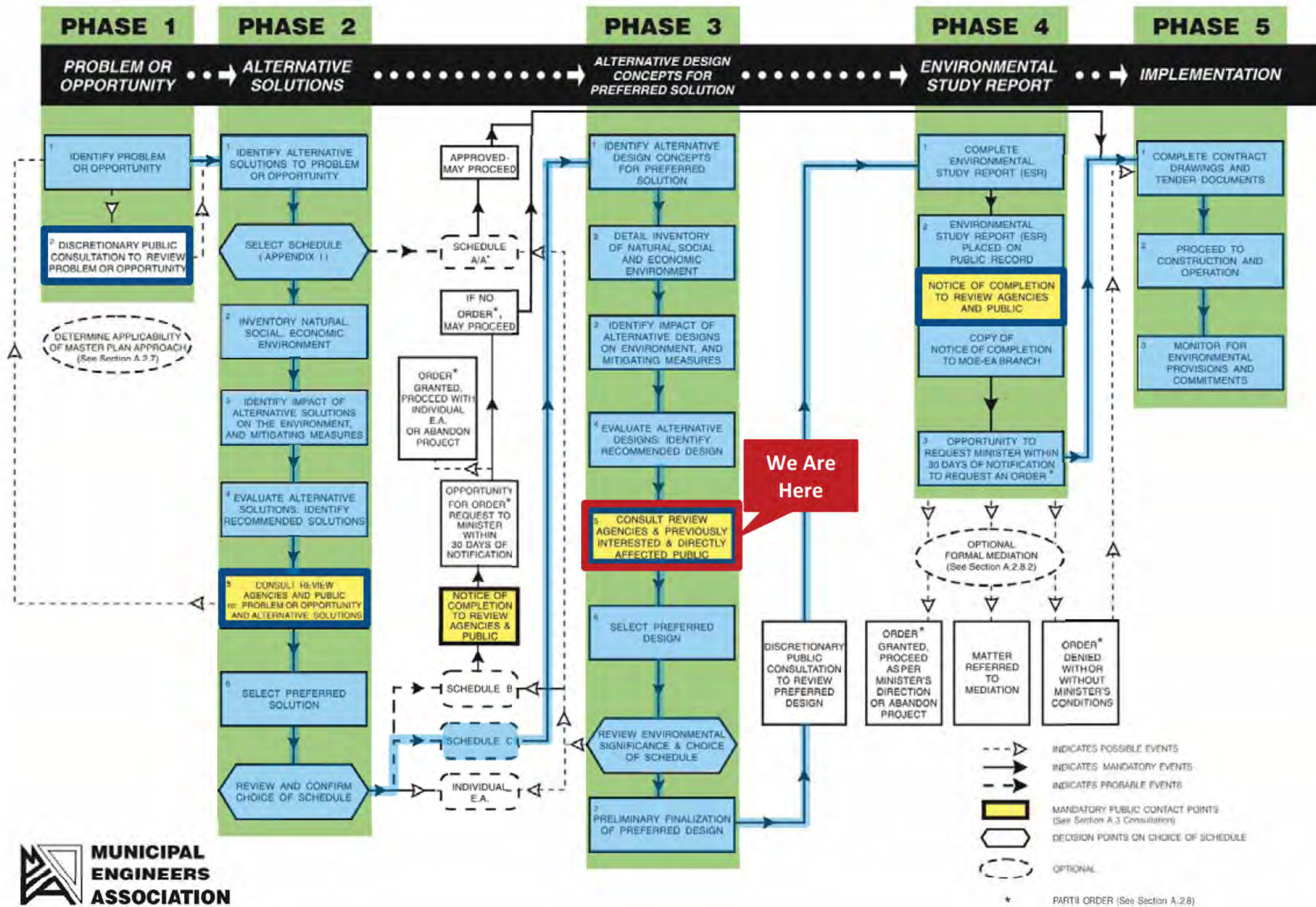


PROJECT HISTORY & PROBLEM/OPPORTUNITY STATEMENT



PROBLEM/OPPORTUNITY STATEMENT:
The proposed solution to contain contaminants requires an overall increase in site grading of the Park by 0.5 metres, which necessitates the installation of shoreline protection at the Park's southern waterfront along Sarnia Bay. The Project also includes removal of the existing boat ramps and installation of new ramps closer to the existing marina.

SCHEDULE 'C' MUNICIPAL CLASS EA PROCESS



Process Summary



SUPPORTING STUDIES FOR THE PROJECT



Environmental and Design Studies



Natural Environment Study

The natural environment study identified natural features, including species at risk (SAR) that have potential to occur within the study area. This was based on the planning status of the surrounding lands, a review of publicly available background information, and agency consultation. The results of the study were used to assess the potential impacts on the natural environment related to each proposed alternative, and identify appropriate mitigation measures.



Archaeology Study

No archaeological studies were completed for the Project. Areas subject to extensive land disturbances, such as grading, have low to no archaeological potential and are not recommended for archaeological investigation. The existing shoreline of Sarnia Bay within the study area is man-made and the result of dredging and infilling between the 1920s and 1960s. These activities were undertaken to provide new harbour and rail transportation facilities.



Tree Inventory

The tree inventory investigated if there were any significant trees within the study area that required preservation and protection to minimize the impact of construction injury. The definition of a 'significant tree' was from the Ontario Urban Forestry Council and Forest Ontario's definitions of a 'heritage tree'.



Geotechnical Investigation

The geotechnical investigation determined the subsurface (underground) conditions at the Park. The geotechnical investigation provided recommendations for the alternatives under consideration and construction of the shoreline protection. Results of the geotechnical investigation guided the development of alternatives and will be incorporated into the Environmental Study Report.



Built and Cultural Heritage Evaluation

The potential for built and cultural heritage was considered by the City's heritage planners through application of the Ministry of Tourism Culture and Sport's checklist criteria. A review of information to identify land use history, and a review of municipally and provincially designated historical sites and districts was completed to support the completion of the checklist.



Surface Water Study

The surface water study reviewed available information to determine the flood risk of the study area and assessed wind-wave climate, bathymetry (shape) and sediment transport processes in Sarnia Bay. Results of the surface water study guided the development of alternative solutions and will be incorporated into the Environmental Study Report.

EXISTING FEATURES / KEY STUDY RESULTS



LEGEND

Terrestrial Vegetation Communities

- Commercial
- Manicured Lawn
- Deciduous Hedgerow
- Deciduous Cultural Woodland
- Cultural Meadow
- Recreational
- Shoreline

Tree Inventory

- Existing Tree to be Removed*

Aquatic Survey

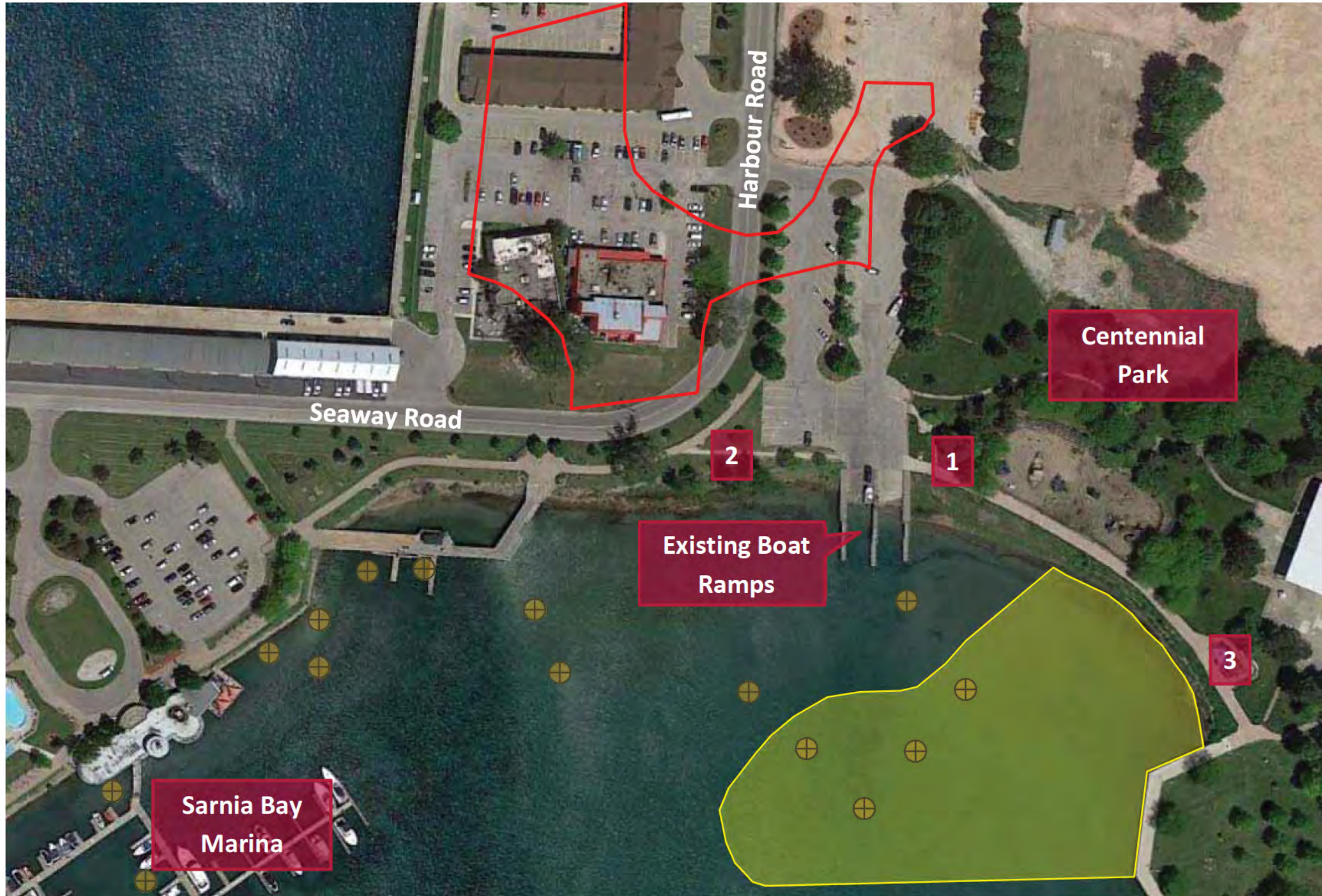
- Fish Survey Locations*

Aquatic Community

Based on records provided by St. Clair Region Conservation Authority (SCRCA) and Ontario Ministry of Natural Resources and Forestry (MNR), 23 fish species have been identified within the general vicinity of the Study Area and consist primarily of cool/coldwater fish species. Shoreline Protection alternatives are designed to minimize in-water works and be protective of the local fishery.

*Locations of existing features in the study area are approximate

EXISTING FEATURES / KEY STUDY RESULTS



LEGEND

- Area Not Affected by O. Reg. 97/04
- Sediment Contamination Area
- Sediment Sampling Locations
- 1 Victims of Chemical Valley Missing Worker Memorial
- 2 Footsteps Tribute to Courage – Never Walk Alone
- 3 Victorian Order of Nurses Memorial Garden Fountain

Stormwater Management

Currently stormwater drains from Centennial Park towards Sarnia Bay. Any fill placed or re-graded has been designed to maintain the existing surface water drainage towards Sarnia Bay.

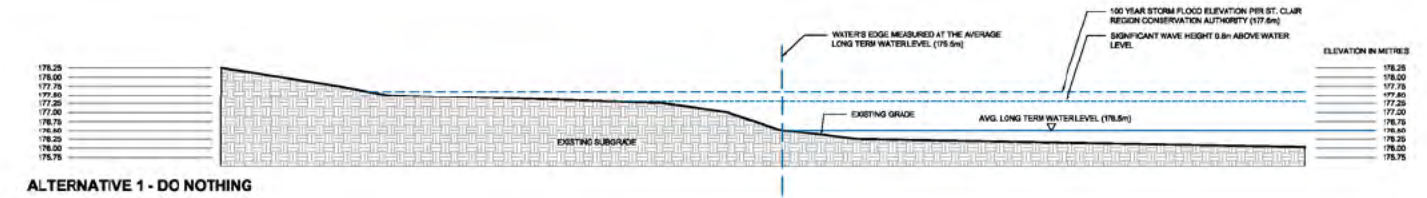
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ALTERNATIVE DESIGNS FOR SHORELINE PROTECTION



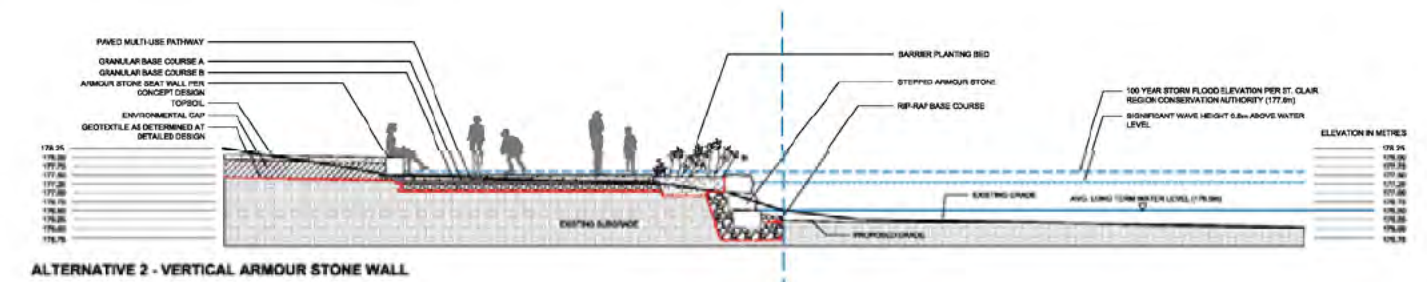
Alternative 1 - Do Nothing

As part of the EA process, the City is required to evaluate the impact of NOT addressing the problem/opportunity in the study area. Under this scenario, the soil cap in the Park would be susceptible to erosion and stability issues, resulting in water quality and health concerns. As such, a soil cap in the vicinity of the shoreline would not be a feasible since no shoreline protection would be provided.



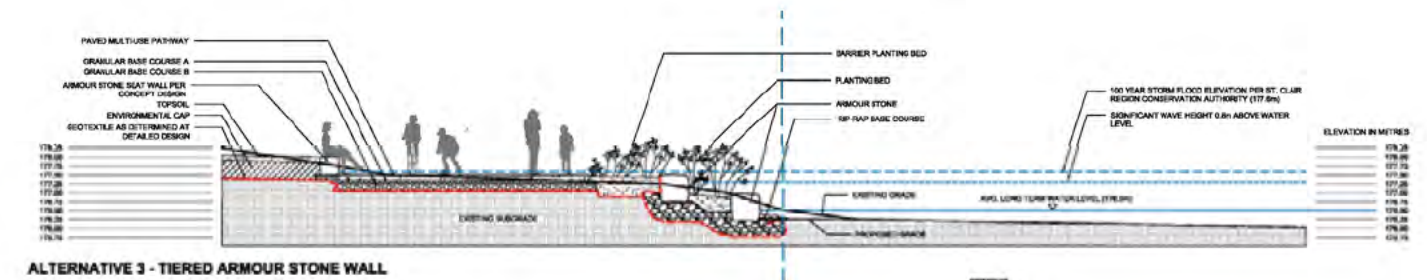
Alternative 2 – Vertical Armour Stone Wall

This alternative uses three levels of armour stone, stacked almost vertically, on a base of rip-rap to create a retaining wall along the shoreline. A planting bed will be located at the top of the wall to deter pedestrian access to the edge of the water. Under this scenario the armour stone wall ensures shoreline stability and eliminates shoreline erosion, and retains the required soil cap. The narrow wall allows the multi-use pathway to be closer to the shoreline and allows for more usable park space to the north. Aesthetically there is a uniform, visually continuous edge to the shoreline.



Alternative 3 – Tiered Armour Stone Wall

This alternative uses two levels of armour stone, tiered with a planting bed between levels, on a base of rip-rap to create a retaining wall along the shoreline. A planting bed will be located at the top of the wall to deter pedestrian access to the edge of the water. Under this scenario, the armour stone wall ensures shoreline stability and eliminates shoreline erosion, and retains the required soil cap. The wider wall creates more distance between the pathway and the shoreline and reduces usable park space to the north. Aesthetically there is a natural appearance to the shoreline.



Each of these scenarios was evaluated relative to regulatory/policy standards, issues brought forward by the public, City guidelines, and design standards. The results of the evaluation are shown on the next presentation board.

EVALUATION OF THE SHORELINE ALTERNATIVES



Preferred Alternative

	Regulatory/Policy/Design Requirement	General Objectives	Project-specific Target	Alternative 1 Do nothing	Alternative 2 Vertical	Alternative 3 Tiered
Natural Environment	Compliance with natural heritage policies of the Provincial Policy Statement (2014)	Protection of fish habitat	Minimize development or site alteration in fish habitat or riparian areas (defined as areas within 15 m from top of bank)	●	●	●
	Compliance with the <i>Endangered Species Act</i> (2007)	Protection of species listed as threatened or endangered in Ontario	No killing, harming or harassing of species, or impacting the habitat of species identified as endangered or threatened	●	●	●
	Compliance with the <i>Species at Risk Act</i> (SARA)(2002)	Protection of species listed as endangered, threatened or extirpated in Canada, and migratory birds listed under the SARA	No impact to critical habitat of endangered, threatened or extirpated aquatic species or habitat of migratory birds	●	●	●
	Compliance with the <i>Migratory Birds Convention Act</i> (1994)	Protection of nesting habitat of migratory birds in Canada	No clearing of trees, shrubs, meadow grasses or existing structures that would result in the destruction of nests of migratory birds during the breeding season	●	●	●
	Compliance with Ontario Regulation 171/06 – St. Clair Region Conservation Authority	Protection of public safety and property from natural hazards, and prevention of pollution and destruction of sensitive environmental areas such as wetlands, shorelines and watercourses	Minimize excavation, filling, site grading or development within the regulated limit	●	●	●
	Consideration of best practices for watershed protection	Preservation of riparian zones adjacent to shorelines, minimization of shoreline erosion and sedimentation and maintenance of stormwater runoff at pre-development levels	Maintain natural drainage patterns and manage stormwater runoff	●	●	●
Social and Economic Environment	Compliance with the City of Sarnia Adopted Official Plan (2014)	Protection of lands designated as natural heritage systems (i.e., natural areas, parks, open space, natural hazards)	Protect, maintain, enhance and restore natural heritage systems where it is not feasible to direct development away from these areas	●	●	●
		Avoidance of building / structure construction within identified one-zone floodplain policy areas	Allow construction in support of public recreation only where construction will not affect flood levels	●	●	●
		Consideration for public safety through protection of the St. Clair River waterfront and shoreline	Protect, maintain and enhance the waterfront through naturalization and improved stability of the shoreline	●	●	●
	Compliance with the City of Sarnia Waterfront Master Plan (2005)	Provision for bicycle and pedestrian corridors and linkages within urban natural areas	Maintain or improve existing multi-use walking / bicycling corridor along Sarnia Bay shoreline at the Park	●	●	●
		Protection of lands designated as park and open space	Protect, maintain, enhance and improve parks and open spaces	●	●	●
		Application of high standards of urban design wherever possible	Maintain uniformity of design for elements such as benches, railings, lighting fixture, walkways and signs	●	●	●
		Consideration of the protection of urban City trees	Protect and preserve existing mature trees within the same site, or in an adjacent natural area or natural hazard lands, where possible	●	●	●
	Consideration of Public concerns identified for the project	Enhance the opportunity for public enjoyment of the waterfront and waterfront character	Development consistent with land designations and plans of George Street to Exmouth Street and West of Harbour Road waterfront areas	●	●	●
		Protection of continuous public walkway at or near water edge	Maintain or improve continuous walkway	●	●	●
	Technical Design	Consideration of construction duration and timing	Efficient duration of construction that is protective of the natural heritage environment	Limit and reduce construction duration and timing within wildlife protection windows, as applicable	●	●
Consideration for the protection of public safety		Safe separation of pedestrians from shoreline	Improve and protect public safety through provision for buffer between sidewalks and shoreline	●	●	●
Consideration of durability and life expectancy		Long-term solution to shoreline protection	Design that has long life expectancy and can withstand environmental factors	●	●	●
Consideration for flooding potential		Consideration of public safety against flood potential appropriate for an urban park environment (i.e., 10-year return period)	Provision of a feasible design that considers protection of the public against flood events having a return period of 10 years taking into account water levels, waves and wave run up	●	●	●
Consideration of coastal hydraulics and compliance technical guidelines for shoreline protection in an urban park environment		Feasible design that can be implemented, given expected water level and wave conditions	Provision of a feasible design that considers the historic range of water levels in Sarnia Bay, including significant wave height and wave run up	●	●	●



A detailed analysis of the alternatives can be found on the City's website at: www.city.sarnia.on.ca

ALTERNATIVE DESIGNS FOR BOAT LAUNCH



Alternative 1 - Do Nothing

This alternative is to keep the boat launch in its current location and condition.

Alternative 2 – Remove and Build a Replacement with Two Ramps

This alternative would build a replacement boat launch with two ramps adjacent to the Sarnia Bay Marina. Under this scenario the current level of service for pleasure craft users will be maintained and access will be provided through the marina parking lot.

Alternative 3 – Remove and Build a Replacement with Four Ramps

This alternative would build a replacement boat launch with four ramps adjacent to the Sarnia Bay Marina. Under this scenario pleasure craft users will see an increased level of service and access will be provided through the marina parking lot.

Each of these scenarios was evaluated relative to regulatory/policy standards, issues brought forward by the public, City guidelines, and design standards. The results of the evaluation are shown on the next presentation board.

EVALUATION OF THE BOAT LAUNCH ALTERNATIVES



Preferred Alternative

	Regulatory/Policy/Design Requirement	General Objectives	Project-specific Target	Alternative 1 Do nothing	Alternative 2 Two Ramps	Alternative 3 Three Ramps
Natural Environment	Compliance with natural heritage policies of the Provincial Policy Statement (2014)	Protection of fish habitat	Minimize development or site alteration in fish habitat or riparian areas (defined as areas within 15 m from top of bank)			
	Compliance with the <i>Endangered Species Act</i> (2007)	Protection of species listed as threatened or endangered in Ontario	No killing, harming or harassing of species, or impacting the habitat of species identified as endangered or threatened			
	Compliance with the <i>Species at Risk Act</i> (SARA)(2002)	Protection of species listed as endangered, threatened or extirpated in Canada, and migratory birds listed under the SARA	No impact to critical habitat of endangered, threatened or extirpated aquatic species or habitat of migratory birds			
	Compliance with the <i>Migratory Birds Convention Act</i> (1994)	Protection of nesting habitat of migratory birds in Canada	No clearing of trees, shrubs, meadow grasses or existing structures that would result in the destruction of nests of migratory birds during the breeding season			
	Compliance with Ontario Regulation 171/06 – St. Clair Region Conservation Authority	Protection of public safety and property from natural hazards, and prevention of pollution and destruction of sensitive environmental areas such as wetlands, shorelines and watercourses	Minimize excavation, filling, site grading or development within the regulated limit			
	Consideration of best practices for watershed protection	Preservation of riparian zones adjacent to shorelines, minimization of shoreline erosion and sedimentation and maintenance of stormwater runoff at pre-development levels	Maintain natural drainage patterns and manage stormwater runoff			
Social and Economic Environment	Compliance with the City of Sarnia Adopted Official Plan (2014)	Protection of lands designated as natural heritage systems (i.e., natural areas, parks, open space, natural hazards)	Protect, maintain, enhance and restore natural heritage systems where it is not feasible to direct development away from these areas			
		Avoidance of building / structure construction within identified one-zone floodplain policy areas	Allow construction in support of public recreation only where construction will not affect flood levels			
		Consideration for public safety through protection of the St. Clair River waterfront and shoreline	Protect, maintain and enhance the waterfront through naturalization and improved stability of the shoreline			
		Provision for bicycle and pedestrian corridors and linkages within urban natural areas	Maintain or improve existing multi-use walking / bicycling corridor along Sarnia Bay shoreline at the Park			
		Protection of lands designated as park and open space	Protect, maintain, enhance and improve parks and open spaces			
		Application of high standards of urban design wherever possible	Maintain uniformity of design for elements such as benches, railings, lighting fixture, walkways and signs			
		Consideration of the protection of urban City trees	Protect and preserve existing mature trees within the same site, or in an adjacent natural area or natural hazard lands, where possible			
	Compliance with the City of Sarnia Waterfront Master Plan (2005)	Enhance the opportunity for public enjoyment of the waterfront and waterfront character	Development consistent with land designations and plans of George Street to Exmouth Street and West of Harbour Road waterfront areas			
		Protection of continuous public walkway at or near water edge	Maintain or improve continuous walkway			
		Consideration of Public concerns identified for the project	Consideration of power sources for recreational uses, such as the Celebration of Lights	Maintain or improve adequate power source for recreational uses		
Technical Design	Consideration of construction duration and timing	Efficient duration of construction that is protective of the natural heritage environment	Limit and reduce construction duration and timing within wildlife protection windows, as applicable			
	Consideration for the protection of public safety	Safe separation of pedestrians from shoreline	Improve and protect public safety through provision for buffer between sidewalks and shoreline			
	Consideration of durability and life expectancy	Long-term solution to shoreline protection	Design that has long life expectancy and can withstand environmental factors			
	Consideration for flooding potential	Consideration of public safety against flood potential appropriate for an urban park environment (i.e., 10-year return period)	Provision of a feasible design that considers protection of the public against flood events having a return period of 10 years taking into account water levels, waves and wave run up			
	Consideration of coastal hydraulics and compliance technical guidelines for shoreline protection in an urban park environment	Feasible design that can be implemented, given expected water level and wave conditions	Provision of a feasible design that considers the historic range of water levels in Sarnia Bay, including significant wave height and wave run up			



A detailed analysis of the alternatives can be found on the City's website at: www.city.sarnia.on.ca

FINAL STEPS



Your Comments are Important to Us

Please ask questions of the project team, and complete a comment sheet before you leave.
You may also submit your comment sheet and return by mail until December 31, 2015.

Final Steps:

- Receive and review comments received from this Public Information Centre, and from external agencies.
- Confirm preferred design and issue the Notice of Study Completion and Environmental Study Report for public review.
- Receive and review comments received during the 30-day public review period

Joe Boothe

Superintendent, Environmental Services
City of Sarnia
255 North Christina Street
PO Box 3018
Sarnia, ON, N7T 7N2
(519) 332-0527 ext. 3590
joe.boothe@sarnia.ca

Jessalyn Oke

Environmental Assessment Specialist
Golder Associates Ltd.
625 Century Avenue, Suite #100
Mississauga, ON, L5N 7K2
(905) 567-4444
jessalyn_oke@golder.com

Appeals Process

If concerns regarding this Project cannot be resolved in discussion with the City of Sarnia, a person or party may request that the Minister of the Environment and Climate Change make an order for the Project to comply with Part II of the *Environmental Assessment Act* (referred to as a Part II Order), which requires an Individual Environmental Assessment. Requests must be received by the Minister within the 30-day review period following issuance of the Notice of Study Completion. If no new or outstanding concerns are brought forward during the review period, the City may complete the detailed design and construction of the Project. Anyone wishing to request a Part II Order must submit a written request, by the end of the 30 calendar day review period, to the Minister of the Environment and Climate Change at the following address, with copies sent to the Director of the Environmental Approvals Branch, and the City's Project Manager.

Hon. Glen Murray
Ministry of the Environment and Climate Change
77 Wellesley St. W, Floor 11
Toronto, ON, M7A 2T5

Director, Environmental Approvals Branch
Ministry of the Environment and Climate Change
135 St. Clair Ave. W, Floor 1
Toronto, ON, M4V 1P5

Freedom of Information and Protection of Privacy

Information collected at this Public Information Centre is being collected in accordance with the *Freedom of Information and Protection of Privacy Act* (R.S.O. 1990). This information will be kept by the City of Sarnia on file and may be included in study documentation. With the exception of personal information, all comments will become part of the public record. Names and addresses will be kept confidential.



Chippewas of Kettle & Stony Point First Nation

6247 Indian Lane
Kettle & Stony Point FN. Ontario, Canada N0N 1J1

November 16, 2015

Golder Associates
6925 Century Avenue, Suite #100
Mississauga, Ontario
L5N 7K2
ATT: Jessalyn Oke, Environmental Assessment Specialist

Dear Ms. Oke:

RE: City of Sarnia is conducting a Class EA (Shoreline Protection of Centennial Park) within Kettle and Stony Point First Nation Traditional Territory.

I'd like to take the opportunity to introduce myself as the Consultation Coordinator for Chippewas of Kettle and Stony Point First Nation ("Kettle & Stony Point"). Kettle & Stony Point have asserted its Aboriginal and Treaty Rights, and Aboriginal Title in their traditional territory ("Traditional Territory") since time immemorial. These constitutionally entrenched rights and title to our Traditional Territory have been legally recognized by the provincial and federal Crowns, as signatories to the Huron Tract Treaty #29.

We are aware that the City of Sarnia is either engaged, or is interested in engaging in an activity that may have an impact on Kettle & Stony Point's Traditional Territory. Please be advised that Kettle & Stony Point has not surrendered, relinquished, extinguished, or conveyed, its interests, rights, and/or title to any of the assets, land, water, surface and subsurface resources, and all other natural resources.

We acknowledge that industry does not have a court-imposed duty to consult with First Nations; however, it is our expectation that if Hydro One Networks Inc. is either engaging, or is interested in engaging, an activity in Kettle & Stony Point's Traditional Territory, it will have an interest in becoming involved in consultation and accommodation efforts with our First Nation.

Consequently, if the City of Sarnia is prepared to engage in meaningful consultations to understand, address and accommodate our concerns, then Kettle & Stony Point will welcome your participation as a sign of good faith and cooperation and we will respond in kind.

At present time, the First Nation does not have any additional comments or concerns with the activity / project you are proposing in our Traditional Territory. Therefore, on behalf of the Kettle & Stony Point First Nation, we thank you for providing information to our First Nation and reserve the right to initiate meaningful consultation discussions should the need arise.

In the event the scope of the project changes and/or amendments are made, please ensure that the First Nation receives notification. Thank you in advance for your cooperation in this regard.

Sincerely,

[Redacted Signature]

[Redacted Name]

Chippewas of Kettle and Stony Point First Nation

From: [Joe Boothe](#)
To: [REDACTED]
Cc: [Oke, Jessalyn](#); [Bryan Prouse](#); [Schwerzmann, Marc](#)
Subject: RE: Shoreline Protection at Centennial Park
Date: Tuesday, December 01, 2015 6:30:42 AM

Good morning [REDACTED]

Is a projector and laptop available for a presentation?

Joe

From: Joe Boothe
Sent: November-16-15 15:43
To: [REDACTED]
Cc: 'Oke, Jessalyn'; Bryan Prouse; Marc Schwerzmann
Subject: Re: Shoreline Protection at Centennial Park

Thanks [REDACTED]

Regards

Joe

Sent from my BlackBerry 10 smartphone on the Bell network.

From: [REDACTED]
Sent: Monday, November 16, 2015 15:33
To: Joe Boothe
Cc: 'Oke, Jessalyn'; Bryan Prouse; Marc Schwerzmann
Subject: RE: Shoreline Protection at Centennial Park

Hi Joe,
30 minutes total for presentation and questions.

[REDACTED]

From: Joe Boothe [<mailto:joe.boothe@sarnia.ca>]

Sent: November-16-15 3:32 PM

[REDACTED]

Cc: 'Oke, Jessalyn' <Jessalyn_Oke@golder.com>; Bryan Prouse <bryan.prouse@sarnia.ca>; Marc Schwerzmann <Marc_Schwerzmann@golder.com>
Subject: Re: Shoreline Protection at Centennial Park

[REDACTED]

As discussed today, a presentation with an overview of the EA and staff available to speak to the construction aspect will be present. The City will attend the December 1st meeting. To finalize our

presentation what is the approximate time preferred for a presentation?

Regards

Joe

Sent from my BlackBerry 10 smartphone on the Bell network.

From: [REDACTED]
Sent: Tuesday, November 10, 2015 09:36
To: Joe Boothe
Cc: 'Oke, Jessalyn'; Bryan Prouse
Subject: RE: Shoreline Protection at Centennial Park

Hi Joe,

The City would be presenting to a presentation to the Environment Committee who is made up of 3 Community members and 2 Councillors. The Environment Department Staff would also be present, there are 4 of us. I would include more information on the Shoreline Protection and a general overview of construction including a timeline.

The meeting takes place at our Community Centre [REDACTED]. And the City is on the agenda for 5 pm.

Which day works best December 1st or December 15th ?

[REDACTED]

From: Joe Boothe [<mailto:joe.boothe@sarnia.ca>]
Sent: November-09-15 12:27 PM
To: [REDACTED]
Cc: 'Oke, Jessalyn' <Jessalyn_Oke@golder.com>; Bryan Prouse <bryan.prouse@sarnia.ca>
Subject: RE: Shoreline Protection at Centennial Park

[REDACTED]

The City would be pleased to attend. To ensure the City prepares effectively, I have a few questions. Is a presentation expected or is this more of a question and answer scenario? Is it geared more towards the Shoreline Protection or to the construction aspect of the project?

Regards

Joe

Joe Boothe

Superintendent, Environmental Services
City of Sarnia
2100 Confederation Line
Sarnia, ON N7T 7H3
Phone: 519-332-0527ext 3590
Fax: 519-337-0736
www.sarnia.ca

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www.codetwo.com

From: [REDACTED]
Sent: November-03-15 12:24
To: Joe Boothe; [Jessalyn Oke@golder.com](mailto:Jessalyn_Oke@golder.com)
Subject: Shoreline Protection at Centennial Park

I am contacting you on behalf of the Aamjiwnaang First Nation Environment committee. They would like to invite you to come an environment committee meeting to share more information on the Shoreline Protection plan for Centennial Park.

The next Environment Committee meeting takes place on December 1 and 15 both starting at 5 pm. Please let me know if either of these times would work for you.

Sincerely,

[REDACTED]
Environment Consultation Worker
Aamjiwnaang First Nation



City of Sarnia Municipal Class Environmental Assessment

Shoreline Protection of Centennial Park Along the Sarnia Bay Harbour Front

December 1, 2015





Project History

2012

June: The City responded to a reported spill in the Park and found a tar-like substance breaking out at ground level at various locations in the Park. A Phase I Environmental Site Assessment (ESA) was completed to review historical land use to determine potential contaminants. The source of the contamination was from fill used to construct the Park.

2013

May: A Phase II ESA was completed to identify and quantify contaminants. A Risk Assessment to address potential health impacts was also completed.
November: City Council was presented with the results of the investigations and available remedial (clean-up) measures.

2014

March: A Remedial Action Plan (RAP) for the Park was released for public review and comment. The RAP included the recommendation to place a clean soil cap at the Park to contain the contamination.
June: City Council approved the RAP.
September: Phase 1 of the remediation commenced.

2015

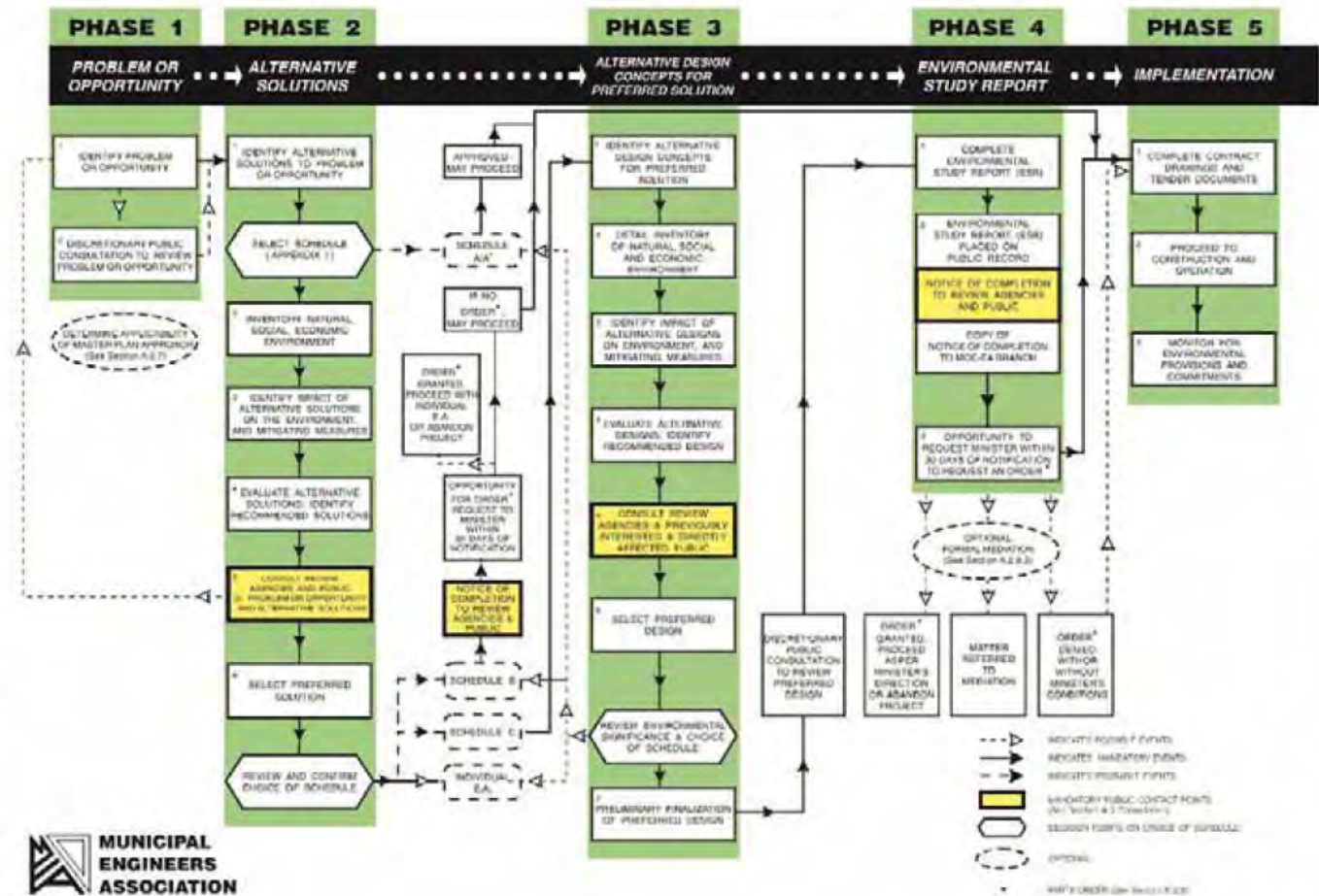
April: Municipal Class Environmental Assessment (EA) was initiated.
May: Public informed of Project through the Notice of Commencement.
June / July / August: Characterization of existing conditions.
October / November: Public Information Centres



Municipal Class Environmental Assessment

Schedule 'C' Class EA

A Class EA is required when municipal plans include construction of new shoreline works, including installation of seawalls and boat ramps.





Problem / Opportunity Statement and Project Study Area

Problem / Opportunity Statement

- The proposed solution to contain contaminants requires an overall increase in site grading of the Park by 0.5 metres, which necessitates the installation of shoreline protection at the Park's southern waterfront along Sarnia Bay. The Project also includes removal of the existing boat ramps and installation of new ramps closer to the existing marina.

Study Area



The study is located in within Centennial Park, focusing on the area within 30 m of the shoreline and extending into Sarnia Bay.



Supporting Studies for the Project

- **Natural Environment Study:**
 - identified natural features, and species at risk that have potential to occur within the study area
 - based on the land use plans, publicly available information and agency consultation
- **Archaeology Study:**
 - determined that the study area contains low to no archaeological potential
- **Tree Inventory**
 - determined that no significant trees occur within the study area
- **Geotechnical Investigation**
 - characterized subsurface conditions
- **Built and Cultural Heritage Evaluation**
 - determined that no built and/or cultural heritage resources occur within the study area
- **Surface Water**
 - determined the flood risk of the study area and assessed wind-wave climate, bathymetry (shape) and sediment transport processes in Sarnia Bay Study



Results of Supporting Studies






Based on records provided by St. Clair Region Conservation Authority and Ontario Ministry of Natural Resources and Forestry, 23 fish species have been identified within the general vicinity of the study area and consist primarily of cool/coldwater fish species. Shoreline Protection alternatives are designed to minimize in-water works and be protective of the local fishery.



Results of Supporting Studies



LEGEND

-  Area Not Affected by O. Reg. 97/04
-  Sediment Contamination Area
-  Sediment Sampling Locations
- 1 Victims of Chemical Valley Missing Worker Memorial
- 2 Footsteps Tribute to Courage – Never Walk Alone
- 3 Victorian Order of Nurses Memorial Garden Fountain

- Currently stormwater drains from Centennial Park towards Sarnia Bay. Any fill placed or re-graded has been designed to maintain the existing surface water drainage towards Sarnia Bay.
- Should construction require excavation within Sarnia Bay:
 - With the exception of materials from the sediment contamination area, sediment can be used as soil-like fill material for a parkland property use in a non-potable groundwater condition at a distance > 30m from a water body.



Evaluation Criteria

The *Environmental Assessment Act* requires that the City consider impacts to the natural, social, economic, and cultural environments when evaluating project solutions. The project evaluation criteria outlined for the Project have been identified based on background studies and public input to date.

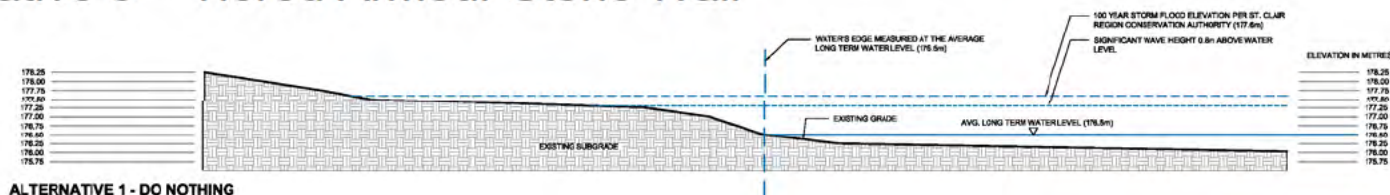
- Planning Documents:
 - Adopted Official Plan
 - Waterfront Master Plan
 - Provincial Policy
- Acts and Regulations:
 - *Endangered Species Act*
 - *Species at Risk Act*
 - *Migratory Birds Convention Act*
 - *Ontario Heritage Act*
 - Ontario Regulation 171/06 - SCRCA
- Other:
 - Best Watershed Protection Practices and Flooding Potential
 - Construction Duration / Timing
 - Durability and Life Expectancy
 - Public Concerns on Project
 - Public Safety
 - Geotechnical considerations



Evaluation Criteria and Alternative Designs

Shoreline Alternatives

- Alternative 1 – Do Nothing
- Alternative 2 – Vertical Armour Stone Wall
- Alternative 3 – Tiered Armour Stone Wall



Boat Launch Alternatives

- Alternative 1 – Do Nothing
- Alternative 2 – Replacement Boat Launch with Two Ramps
- Alternative 3 – Replacement Boat Launch with Four Ramps



As part of the EA process, the City is required to evaluate the impact of NOT addressing the problem/opportunity in the study area.

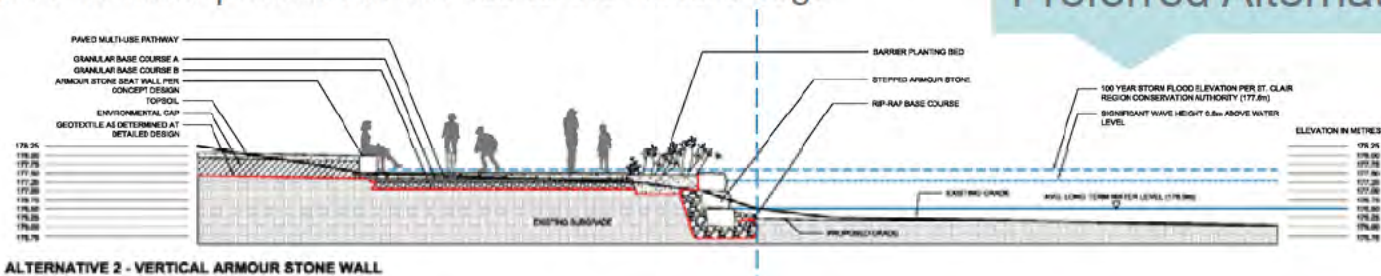




Alternative Designs for Shoreline Protection

Alternative 2 – Vertical Armour Stone

- armour stone wall provides shoreline stability, eliminates shoreline erosion and retains the soil cap
- three levels of armour stone, stacked vertically, on rip-rap base
- planting bed to deter pedestrian access to the waters edge



Alternative 3 – Tiered Armour Stone Wall

- armour stone wall provides shoreline stability, eliminates shoreline erosion and retains the soil cap
- two levels of armour stone, tiered with a planting bed between levels, on a rip-rap base
- planting bed to deter pedestrian access to the waters edge





Alternative Designs for Boat Launch

Alternative 2 – Replacement Boat Launch with Two Ramps

- replacement boat launch with two ramps adjacent to the Sarnia Bay Marina
- current level of service for pleasure craft users will be maintained

Preferred Alternative



Alternative 3 – Replacement Boat Launch with Four Ramps

- replacement boat launch with four ramps adjacent to the Sarnia Bay Marina
- pleasure craft users will see an increased level of service
- will only accommodate smaller pleasure craft sizes due to narrower ramp width





Preferred Alternatives – Alternative 2

Vertical Armour Stone Wall

- Natural Environment:
 - Smaller onshore footprint (habitat, regulated area)
 - Less vulnerable to shoreline erosion (planting bed(s))
- Social and Economic Environment:
 - More open space / park lands available
 - Public safety (no pedestrian access to Sarnia Bay)
- Technical Design:
 - Greater life expectancy / less maintenance
 - Less susceptible to flooding (planting bed(s))

Remove and Build a Replacement with Two Ramps

- Natural Environment:
 - Smaller in water and onshore footprint (fish habitat / riparian area, regulated area)
- Social and Economic Environment:
 - More open space / park lands available
 - Can accommodate larger pleasure craft sizes (ramp width)
- Technical Design:
 - Equally preferred

Cultural Environment: low to no archaeological potential and no built or cultural heritage resources identified



Environmental Study Report

Final Steps:

- Receive and review comments received from the second Public Information Centre held on November 25, 2015, and from external agencies.
- Confirm preferred design and issue the Notice of Study Completion and Environmental Study Report for public review.
- Receive and review comments received during the 30-day public review period





Anticipated Construction Timelines

Anticipated Schedule:

- Armour Stone Wall:
 - ~ 4 months
 - Occurs within cool/cold water fisheries window
- Boat Launch:
 - ~ 2 months
 - Occurs within cool/cold water fisheries window
 - Will be replaced before existing boat launch is removed

Construction Methods:

- Construction is primarily beyond the high water mark and in the dry
- Mitigation measures will be implemented during construction





Questions / Comments



December 1, 2015

15





MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT STUDY FOR THE SHORELINE PROTECTION OF CENTENNIAL PARK MEETING MINUTES

PURPOSE Discuss the Municipal Class EA and Planned Construction

DATE December 1, 2015

PROJECT No. 1413940, 7000

ATTENDEES 9 members of the Aamjiwnaang Environment Committee
Joe Boothe, Bryan Prouse (City of Sarnia)
Marc Schwerzmann, Jessalyn Oke (Golder Associates Ltd.)

The City of Sarnia (City) and Golder Associates Ltd. (Golder) attended the Aamjiwnaang First Nation community's Environment Committee meeting on December 1, 2015. A presentation was made summarizing the Project, the municipal class environmental assessment process, and the planned construction timelines and methods. The following questions and concerns were raised by the Environment Committee members:

- support for the proposed location of the existing air quality monitoring station;
- confirmation of whether the City plans to plant trees to replace those that will be removed during construction;
 - the community has a native plant nursery that could supply replacement vegetation;
 - the community would like to complete a seed collection at Centennial Park prior to construction;
- concern related the presence of Canadian geese at beaches;
- confirmation that consideration was given to aquatic species within Sarnia Bay;
- confirmation on whether the City plans to include habitat enhancements (e.g., habitat pods) as part of the project design;
- confirmation on which environmentally sensitive tree species is located within the Centennial Park;
- consideration to provide a small pleasure craft ramp (i.e., canoes, kayaks) in the replacement boat launch design; and
- option to include a First Nation monitor during construction to check the shoreline for artifacts at the proposed replacement boat launch location.

From: Joe Boothe
To: [REDACTED]
Cc: Bryan Prouse; Andre Morin; Beth Gignac; Patti Ross; Schwerzmann, Marc; Douglas, Jennifer; Oke, Jessalyn
Subject: Aamjiwnaang Environmental Committee Meeting - Centennial Park
Date: Friday, December 11, 2015 7:25:27 AM
Attachments: 1413940 Meeting 6 Minutes - December 1 2015.pdf

[REDACTED]

Please see attached meeting minutes from the December 1st Aamjiwnaang Environmental Committee meeting the City and Golder Associates attended. These minutes will be part of the final Environmental Assessment (EA) documentation. All of the questions/requests raise will be addressed in the EA but I thought I would answer to the request on the seed collection and environmentally sensitive tree species located in project area in this correspondence.

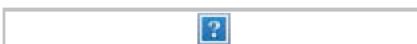
The one environmentally sensitive tree species located in project area is a **Carpinus Caroliniana**. The significance of the tree is that it is not normally found in this type of soil conditions, it is common along the borders of streams and swamps, loves a deep moist soil.

As requested at the Aamjiwnaang Environmental Committee meeting on December 1st, the City would like to invite Aamjiwnaang staff to visit the Centennial Park Site for the purpose of seed collection of the existing plantings. There are a few precautions anyone visiting the site needs to be aware of and abide by; there cannot be any soil disturbance of any kind, the contaminants of concern are in the top soil layer throughout the fenced off area. It is a construction site so hard hats, safety boots with the minimal CSA green patch certification and safety glasses are required in the fenced off area. And lastly, for security reasons the City would need a schedule submitted when people's maybe entering the site. A site safety meeting will be held with all people(s) that maybe entering the site on the first day.

If you have any questions or concerns, please feel free to contact me via telephone or email.

Regards,

Joe

 **Joe Boothe**
Superintendent, Environmental Services

City of Sarnia
2100 Confederation Line
Sarnia, ON N7T 7H3
Phone: 519-332-0527ext 3590
Fax: 519-337-0736
www.sarnia.ca



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MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT STUDY FOR THE SHORELINE PROTECTION OF CENTENNIAL PARK MEETING MINUTES

PURPOSE Discuss the Municipal Class EA and Planned Construction

DATE December 1, 2015

PROJECT No. 1413940, 7000

ATTENDEES 9 members of the Aamjiwnaang Environment Committee
Joe Boothe, Bryan Prouse (City of Sarnia)
Marc Schwerzmann, Jessalyn Oke (Golder Associates Ltd.)

The City of Sarnia (City) and Golder Associates Ltd. (Golder) attended the Aamjiwnaang First Nation community's Environment Committee meeting on December 1, 2015. A presentation was made summarizing the Project, the municipal class environmental assessment process, and the planned construction timelines and methods. The following questions and concerns were raised by the Environment Committee members:

- support for the proposed location of the existing air quality monitoring station;
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- confirmation on which environmentally sensitive tree species is located within the Centennial Park;
- consideration to provide a small pleasure craft ramp (i.e., canoes, kayaks) in the replacement boat launch design; and
- option to include a First Nation monitor during construction to check the shoreline for artifacts at the proposed replacement boat launch location.

From: [Joe Boothe](#)
To: [Oke, Jessalyn](#)
Cc: [Bryan Prouse](#); [Andre Morin](#); [Schwerzmann, Marc](#)
Subject: Fw: Aamjiwnaang Environmental Committee Meeting - Centennial Park
Date: Monday, December 14, 2015 8:55:54 AM

Jessie

Please log correspondence

Joe

Sent from my BlackBerry 10 smartphone on the Bell network.

From: joe.boothe@sarnia.ca
Sent: Monday, December 14, 2015 08:55
To: [REDACTED]
Subject: Re: Aamjiwnaang Environmental Committee Meeting - Centennial Park

No problem, any time [REDACTED]

Joe

Sent from my BlackBerry 10 smartphone on the Bell network.

From: [REDACTED]
Sent: Monday, December 14, 2015 08:50
To: Joe Boothe
Subject: RE: Aamjiwnaang Environmental Committee Meeting - Centennial Park

Hi Joe,

Thank you for the update and information regarding the tree. I will keep in touch with you regarding the safety training and timing of the seed collection. Once I have a chance to talk with Return the Landscape and determine their schedule, I will give you a call.

[REDACTED]
Environment Coordinator,
Aamjiwnaang First Nation

From: Joe Boothe [mailto:joe.boothe@sarnia.ca]

Sent: December-11-15 7:26 AM

To: [Redacted]

Cc: Bryan Prouse <bryan.prouse@sarnia.ca>; Andre Morin <andre.morin@sarnia.ca>; Beth Gignac <beth.gignac@sarnia.ca>; Patti Ross <patti.ross@sarnia.ca>; Marc_Schwerzmann@golder.com; Douglas, Jennifer <Jennifer_Douglas@golder.com>; 'Oke, Jessalyn' <Jessalyn_Oke@golder.com>

Subject: Aamjiwnaang Environmental Committee Meeting - Centennial Park

[Redacted]

Please see attached meeting minutes from the December 1st Aamjiwnaang Environmental Committee meeting the City and Golder Associates attended. These minutes will be part of the final Environmental Assessment (EA) documentation. All of the questions/requests raise will be addressed in the EA but I thought I would answer to the request on the seed collection and environmentally sensitive tree species located in project area in this correspondence.

The one environmentally sensitive tree species located in project area is a **Carpinus Caroliniana**. The significance of the tree is that it is not normally found in this type of soil conditions, it is common along the borders of streams and swamps, loves a deep moist soil.

As requested at the Aamjiwnaang Environmental Committee meeting on December 1st, the City would like to invite Aamjiwnaang staff to visit the Centennial Park Site for the purpose of seed collection of the existing plantings. There are a few precautions anyone visiting the site needs to be aware of and abide by; there cannot be any soil disturbance of any kind, the contaminants of concern are in the top soil layer throughout the fenced off area. It is a construction site so hard hats, safety boots with the minimal CSA green patch certification and safety glasses are required in the fenced off area. And lastly, for security reasons the City would need a schedule submitted when people's maybe entering the site. A site safety meeting will be held with all people(s) that maybe entering the site on the first day.

If you have any questions or concerns, please feel free to contact me via telephone or email.

Regards,

Joe

[Redacted] **Joe Boothe**
Superintendent, Environmental Services

City of Sarnia
2100 Confederation Line
Sarnia, ON N7T 7H3
Phone: 519-332-0527ext 3590
Fax: 519-337-0736
www.sarnia.ca

[Redacted]

[Redacted]

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CHIPPEWAS OF THE THAMES FIRST NATION

December 14, 2015

City of Sarnia
255 North Christina Street
P.O. Box 3018
Sarnia, ON N7T 7N2

Attn: Joe Boothe
Superintendent, Environmental Services

Subject: Shoreline Protection of Centennial Park
Schedule 'C' Class Environment Assessment

Dear Mr. Boothe,

Thank you for distributing the project information package for the abovementioned project. The project information package has been screened internally and based on the location of the proposed work, a moderate value has been determined. The project work will be conducted within the Sombra Treaty area, to which Chippewas of the Thames are a signatory. The project area is also located within the Big Bear Creek Additions to Reserve (ATR) Land selection area.

We encourage all project proponents to exercise due diligence by respecting our Aboriginal and Treaty Rights, and any Consultation and Accommodation. We wish to be informed of the project details and expected outcome. Moreover, we look forward to continuing this open line of communication.

Respectfully,

Mary Alikakos
Consultation Coordinator
Chippewa of the Thames First Nation

[REDACTED]

c. Jessalyn Oke, Golder Associates Ltd.

[REDACTED]



APPENDIX M

Public Information Centre #1 Panels, Sign-in Sheets, Comments and Summary



SHORELINE PROTECTION OF CENTENNIAL PARK SARNIA BAY HARBOURFRONT CLASS EA PUBLIC INFORMATION CENTRE 1 SUMMARY REPORT

OPEN HOUSE DATE	October 14, 2015
LOCATION	City Hall, Council Chambers, 255 North Christina Street, Sarnia
PROJECT REPRESENTATIVES	Andre Morin (City of Sarnia) Bryan Prouse (City of Sarnia) Jessalyn Oke (Golder Associates Ltd.) Wendy Ott (Golder Associates Ltd.) Marc Schwerzmann (Golder Associates Ltd.)

The first of two Public Information Centres (PIC's) was held on October 14, 2015 at the Sarnia City Hall, Council Chambers, as partial fulfillment of the public consultation requirements for the Schedule 'C' Class Environmental Assessment (EA) for Shoreline Protection of Centennial Park along the Sarnia Bay Harbour Front.

The PIC was held from 6:30 p.m. to 8:00 p.m., with representatives from the City of Sarnia and Golder Associates Ltd. in attendance to answer questions.

Nine (9) information panels were on display (attached), summarizing the problem/opportunity statement for the project, the Municipal Class Environmental Assessment (EA) process, the findings of the background studies, and the evaluation criteria to be used to evaluate alternative considered and identify the preliminary preferred solution. A large drawing of the project area was also provided for PIC attendees to identify issues / concerns that should be considered in the Municipal Class EA.

Fourteen (14) people attended the PIC (sign-in sheet attached). Comment sheets were available to all attendees, and the information panels were posted on the City's website for public review. Two (2) comment sheets were returned (attached). Through the received comment sheet, and discussions between attendees and Project team members, the following issues/concerns were noted:

1. Class EA Process – Defining Project scope: the Project is for shoreline protection only (i.e., Centennial Park rehabilitation is not included as part of the Project or Class EA); process for Part II order requests; and description of existing condition studies completed.
2. Alternatives – Defining the geographical extent of shoreline protection: Sarnia Bay at Centennial between the existing pleasure craft fueling station and sheet pile seawall along the Bluewater Bike Path.
3. Public Access – Maintaining public access to the shoreline.
4. Boat Ramps – Replacing ramps at or near existing boat ramp location; consideration for a walk-in boat ramp; and applying no or a small boat ramp user fee.
5. Evaluation Criteria – Additional evaluation criteria to be considered and screening of existing criteria applicable to the Project.
6. Construction – Proposed construction schedule relative to pleasure craft season; and identification of possible Project funding opportunities.



SHORELINE PROTECTION OF CENTENNIAL PARK SARNIA BAY HARBOURFRONT CLASS EA PUBLIC INFORMATION CENTRE 1 SUMMARY REPORT

Discussions of the above issues / concerns occurred at the PIC, and consideration of these comments will be incorporated into the evaluation of alternatives and documented in the Environmental Study Report. Comments regarding rehabilitation of Centennial Park were also received at the PIC (e.g., bioremediation, flow conduit between the St. Clair River and Sarnia Bay for fish passage, contamination characterization and monitoring); however, Park rehabilitation is not part of the Project. These comments were recorded and will be considered by the City of Sarnia outside of the Class EA for this Project.

ATTACHMENTS:

- Display Panels
- Blank Sign –in Sheet
- Completed Sign-in Sheet
- Blank Comment Sheet
- Comment Sheets Received



SHORELINE
PROTECTION
OF CENTENNIAL PARK
SARNIA BAY HARBOURFRONT

PUBLIC INFORMATION
CENTRE
OCTOBER 14, 2015

Municipal Class
Environmental
Assessment



PROJECT HISTORY & PROBLEM/OPPORTUNITY STATEMENT



2012

June: The City responded to a reported spill in the Park and found a tar-like substance breaking out at ground level at various locations in the Park. A Phase I Environmental Site Assessment (ESA) was completed to review historical land use to determine potential contaminants. The source of the contamination was from fill used to construct the Park.

2013

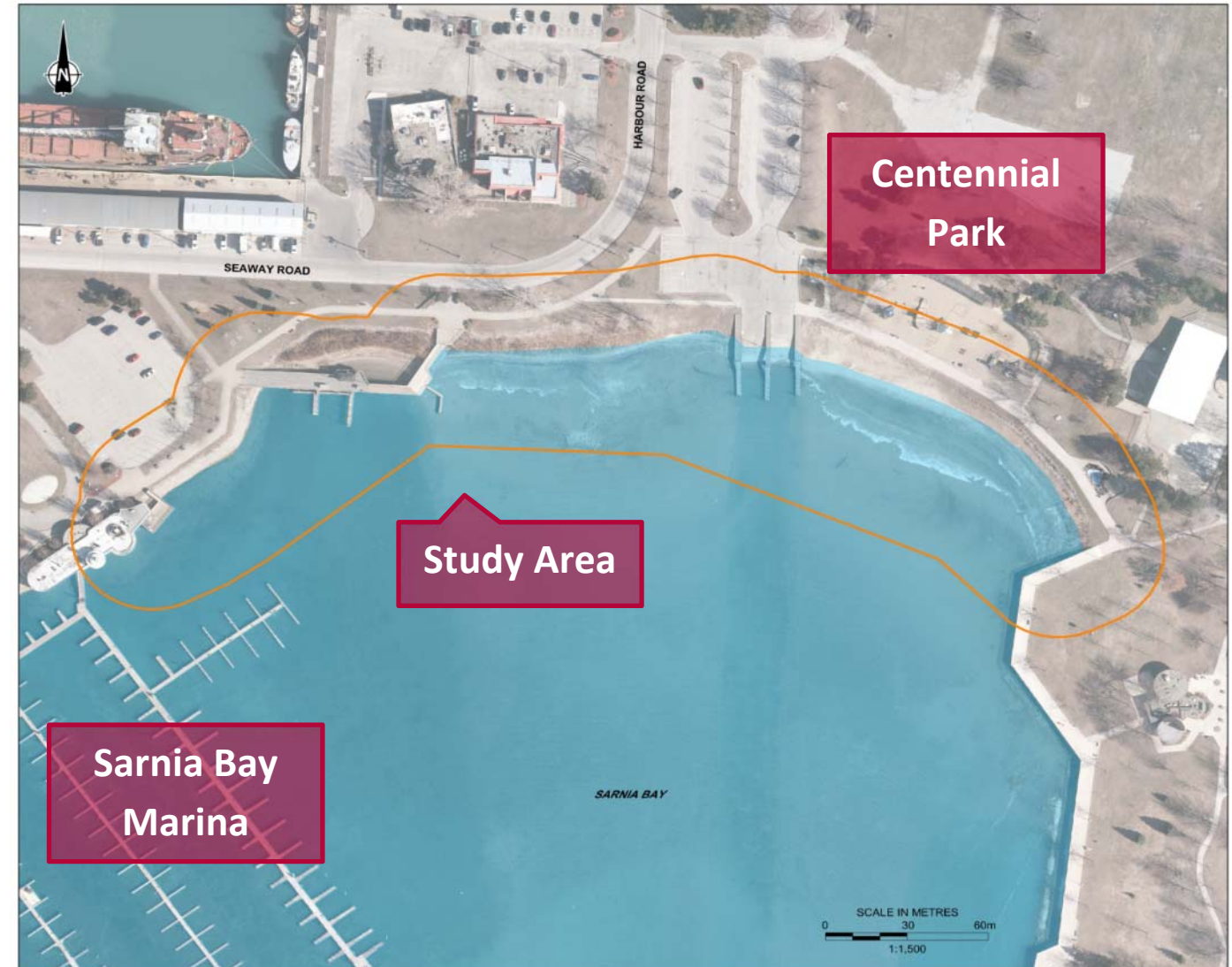
May: A Phase II ESA was completed to identify and quantify contaminants. A Risk Assessment to address potential health impacts was also completed.
November: City Council was presented with the results of the investigations and available remedial (clean-up) measures.

2014

March: A Remedial Action Plan (RAP) for the Park was released for public review and comment. The RAP included the recommendation to place a clean soil cap at the Park to contain the contamination.
June: City Council approved the RAP.
September: Phase 1 of the remediation commenced.

2015

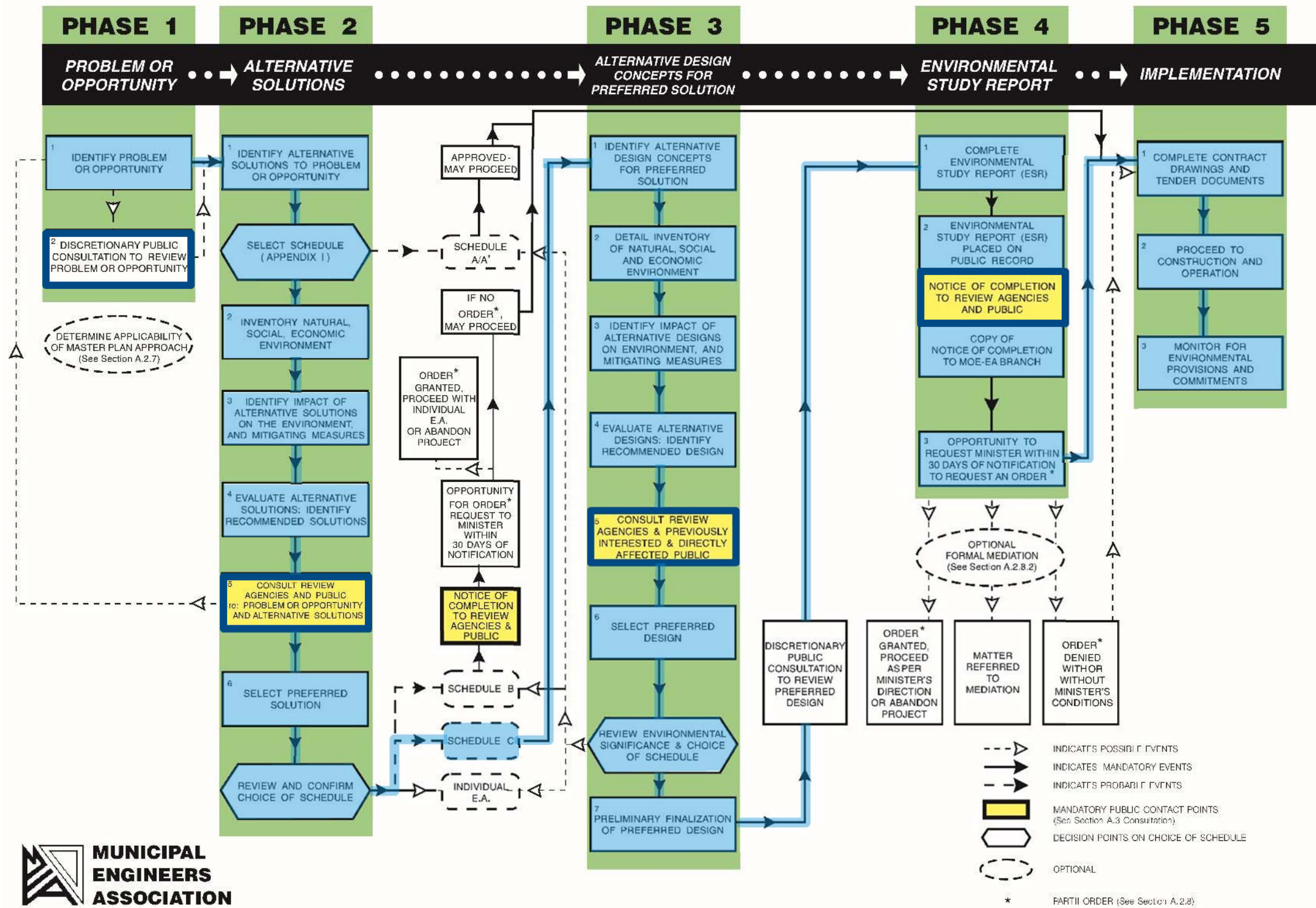
April: The Municipal Class Environmental Assessment (EA) was initiated. A Class EA is required when municipal plans include construction of new shoreline works, including installation of seawalls and boat ramps.
May: Public informed of Project through the Notice of Commencement.
June / July / August: Characterization of existing conditions.



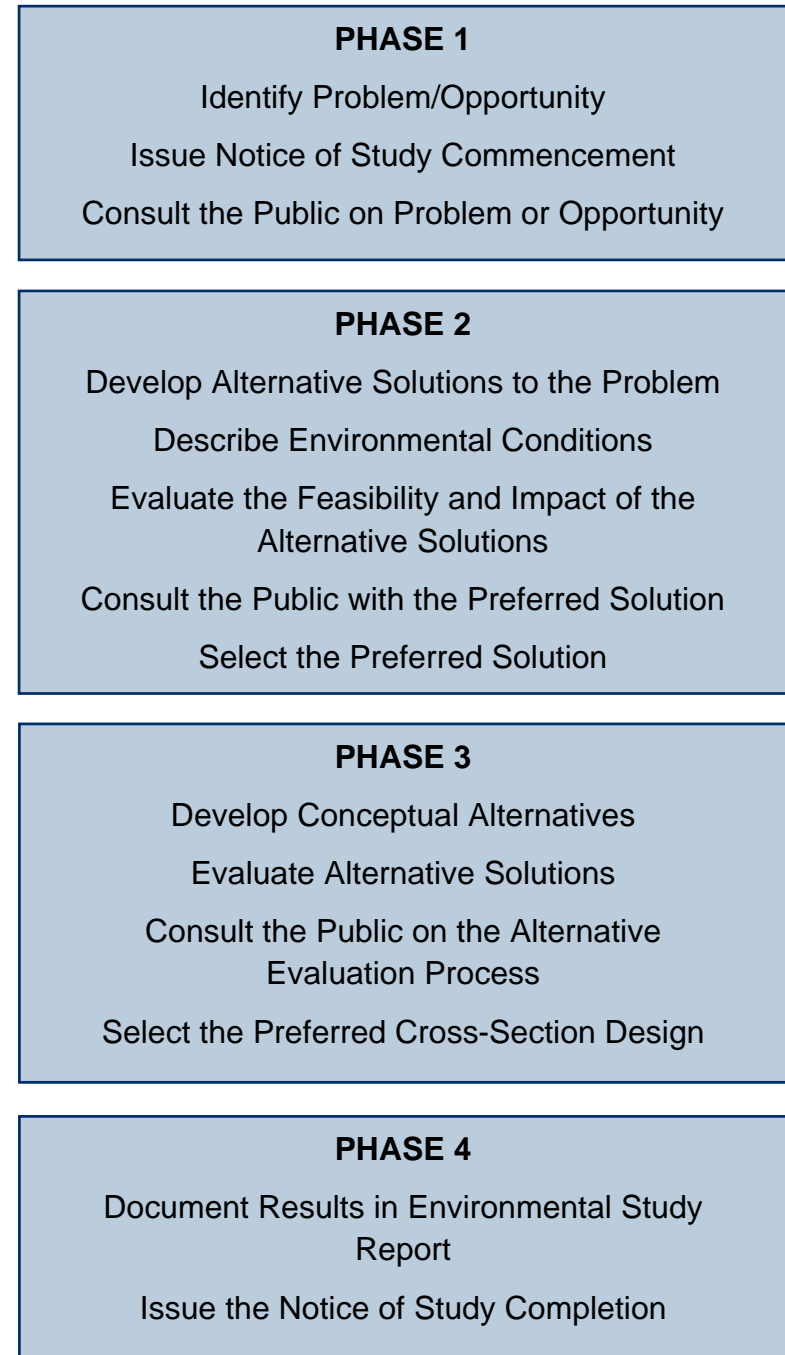
PROBLEM/OPPORTUNITY STATEMENT:

The proposed solution to contain contaminants requires an overall increase in site grading of the Park by 0.5 metres, which necessitates the installation of shoreline protection at the Park's southern waterfront along Sarnia Bay. The Project also includes removal of the existing boat ramps and installation of new ramps closer to the existing marina.

SCHEDULE 'C' MUNICIPAL CLASS EA PROCESS



Process Summary



SUPPORTING STUDIES FOR THE PROJECT



Environmental and Design Studies



Natural Environment Study

The natural environment study identified natural features, including species at risk (SAR) that have potential to occur within the study area. This was based on the planning status of the surrounding lands, a review of publicly available background information, and agency consultation. The results of the study will be used to assess the potential impacts on the natural environment related to each proposed alternative, and identify appropriate mitigation measures.



Archaeology Study

No archaeological studies were completed for the Project. Areas subject to extensive land disturbances, such as grading, have low to no archaeological potential and are not recommended for archaeological investigation. The existing shoreline of Sarnia Bay within the study area is man-made and the result of dredging and infilling between the 1920s and 1960s. These activities were undertaken to provide new harbour and rail transportation facilities.



Tree Inventory

The tree inventory investigated if there were any significant trees within the study area that required preservation and protection to minimize the impact of construction injury. The definition of a 'significant tree' was from the Ontario Urban Forestry Council and Forest Ontario's definitions of a 'heritage tree'.



Geotechnical Investigation

The geotechnical investigation determined the subsurface (underground) conditions at the Park. The geotechnical investigation report includes recommendations for the alternative solution and construction of the shoreline protection. Results of the geotechnical investigation will guide the development of alternative solutions and will be incorporated into the Environmental Study Report.



Built and Cultural Heritage Evaluation

The potential for built and cultural heritage was considered by the City's heritage planners through application of the Ministry of Tourism Culture and Sport's checklist criteria. A review of information to identify land use history, and a review of municipally and provincially designated historical sites and districts was completed to support the completion of the checklist.



Surface Water Study

The surface water study reviewed available information to determine the flood risk of the study area and assessed wind-wave climate, bathymetry (shape) and sediment transport processes in Sarnia Bay. Results of the surface water study will guide the development of alternative solutions and be incorporated into the Environmental Study Report.

EXISTING FEATURES / PRELIMINARY RESULTS



LEGEND

Terrestrial Vegetation Communities

- Commercial
- Manicured Lawn
- Deciduous Hedgerow
- Deciduous Cultural Woodland
- Cultural Meadow
- Recreational
- Shoreline

Tree Inventory

- X Existing Tree to be Removed*

Aquatic Survey

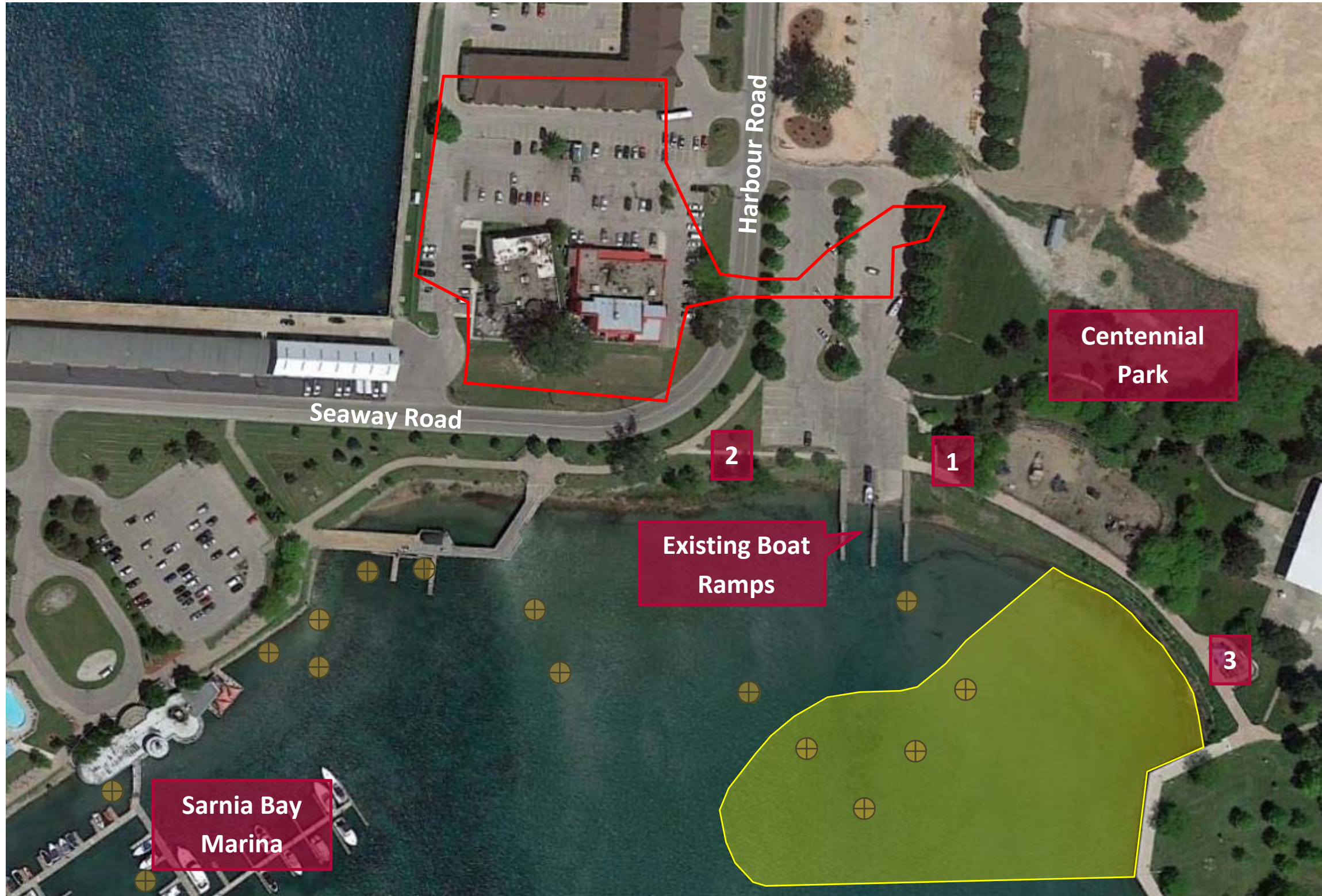
- Fish Survey Locations*

Aquatic Community

Based on records provided by St. Clair Region Conservation Authority (SCRCA) and Ontario Ministry of Natural Resources and Forestry (MNR), 23 fish species have been identified within the general vicinity of the Study Area and consist primarily of cool/coldwater fish species. Shoreline Protection alternatives will be designed to minimize in-water works and be protective of the local fishery.

*Locations of existing features in the study area are approximate

EXISTING FEATURES / PRELIMINARY RESULTS



LEGEND

- Area Not Affected by O. Reg. 97/04
- Sediment Contamination Area
- Sediment Sampling Locations
- 1 Victims of Chemical Valley Missing Worker Memorial
- 2 Footsteps Tribute to Courage – Never Walk Alone
- 3 Victorian Order of Nurses Memorial Garden Fountain

Stormwater Management

Currently stormwater drains from Centennial Park towards Sarnia Bay. Any fill placed or re-graded will be designed to maintain the existing surface water drainage towards Sarnia Bay.

*Locations of existing features in the study area are approximate

EVALUATION CRITERIA TO BE APPLIED TO THE PROJECT



The Environmental Assessment Act requires that the City consider impacts to the natural, social, economic, and cultural environments when evaluating project solutions. The project evaluation criteria outlined here have been identified based on background studies and public input to date.

A large drawing of the study area is provided on the tables. Please add notes to the drawing to identify any other issues you think should be considered.

Social and Economic Environment		
Goal	Objective	Project-specific Target
Compliance with the City of Sarnia Adopted Official Plan (2014)	Protection of lands designated as natural heritage systems (i.e., natural areas, parks, open space, natural hazards)	Protect, maintain, enhance and restore natural heritage systems where it is not feasible to direct development away from these areas
	Avoidance of building / structure construction within identified one-zone floodplain policy areas	Allow construction in support of public recreation only where construction will not affect flood flows
	Protection of groundwater to ensure safe drinking water supply	Protect or improve vulnerable water resources (i.e., aquifer and groundwater recharge areas)
	Consideration for public safety through protection of the St. Clair River waterfront and shoreline	Protect, maintain and enhance the waterfront through naturalization and improved stability of the shoreline
	Provision for bicycle and pedestrian corridors and linkages within urban natural areas	Maintain or improve existing multi-use walking / bicycling corridor along Sarnia Bay shoreline at the Park
	Protection of lands designated as park and open space	Protect, maintain, enhance and improve parks and open spaces
	Consideration of cultural heritage resources in the undertaking of municipal public works	Identification, conservation, protection, rehabilitation, renovation, restoration, preservation and reuse of cultural heritage / archaeological sites
	Application of high standards of urban design wherever possible	Maintain uniformity of design for elements such as benches, railings, lighting fixture, walkways and signs
	Consideration of the protection of urban City trees	Protect and preserve existing mature trees within the same site, or in an adjacent natural area or natural hazard lands, where possible
Compliance with the City of Sarnia Waterfront Master Plan (2005)	Enhance the opportunity for public enjoyment of the waterfront and waterfront character	Development consistent with land designations and plans of George Street to Exmouth Street and West of Harbour Road waterfront areas
	Protection of continuous public walkway at or near water edge	Maintain or improve continuous walkway
Consideration of public concerns identified for the project	Consideration of power sources for recreational uses, such as the Celebration of Lights	Maintain or improve adequate power source for recreational uses

EVALUATION CRITERIA TO BE APPLIED TO THE PROJECT



Natural Environment		
Goal	Objective	Project-specific Target
Compliance with natural heritage policies of the <i>Provincial Policy Statement (2014)</i>	Protection of significant wetlands	No development or site alterations in wetlands identified as Provincially Significant
	Protection of significant woodlands	No negative impact to significant woodlands from site alteration or development
	Protection of significant valley lands	No negative impact to significant valley lands from site alteration or development
	Protection of significant wildlife habitat	No negative impact to significant wildlife habitat from site alteration or development
	Protection of Areas of Natural or Scientific Interest (ANSI)	No negative impact to ANSIs from site alteration or development
	Protection of fish habitat	Minimize development or site alteration in fish habitat or riparian areas (defined as areas within 15 m from top of bank)
Compliance with the <i>Endangered Species Act (2007)</i>	Protection of species listed as threatened or endangered in Ontario	No killing, harming or harassing of species, or impacting the habitat of species identified as endangered or threatened
Compliance with the <i>Species at Risk Act (SARA)(2002)</i>	Protection of aquatic species listed as endangered, threatened or extirpated in Canada, and migratory birds listed under the SARA	No impact to critical habitat of endangered, threatened or extirpated aquatic species or habitat of migratory birds
Compliance with the <i>Migratory Birds Convention Act (1994)</i>	Protection of nesting habitat of migratory birds in Canada	No clearing of trees, shrubs, meadow grasses or existing structures that would result in the destruction of nests of migratory birds during the breeding season
Compliance with <i>Ontario Regulation 171/06 – St. Clair Region Conservation Authority</i>	Protection of public safety and property from natural hazards, and prevention of pollution and destruction of sensitive environmental areas such as wetlands, shorelines and watercourses	Minimize excavation, filling, site grading or development within the regulated limit
Consideration of best practices for watershed protection	Preservation of riparian zones adjacent to shorelines, minimization of shoreline erosion and sedimentation and maintenance of stormwater runoff at pre-development levels	Maintain natural drainage patterns and manage stormwater runoff

Technical Design		
Issue	Objective	Project-specific Target
Consideration of construction duration and timing	Efficient duration of construction that is protective of the natural heritage environment	Limit and reduce construction duration and timing within wildlife protection windows, as applicable
Consideration of geotechnical factors and feasibility of implementation	Feasible design that can be implemented within existing geotechnical conditions	Provision of a feasible design that is compatible with existing geotechnical conditions
Consideration for the protection of public safety	Safe separation of pedestrians from shoreline	Improve and protect public safety through provision for buffer between sidewalks and shoreline
Consideration of durability and life expectancy	Long-term solution to shoreline protection	Design that has long life expectancy and can withstand environmental factors
Consideration for flooding potential	Consideration of public safety against flood potential appropriate for an urban park environment (i.e., 10-year return period).	Provision of a feasible design that considers protection of the public against flood events having a return period of 10 years taking into account water levels, waves and wave run up
Consideration of coastal hydraulics and compliance with appropriate technical guidelines for shoreline protection in an urban park environment	Feasible design that can be implemented, given expected water level and wave conditions	Provision of a feasible design that considers the 100 year water level in Sarnia Bay, including significant wave height and wave run up

Cultural Environment		
Issue	Objective	Project-specific Target
Compliance with the <i>Ontario Heritage Act (1990)</i>	Protection of built heritage structures 40 years of age or older that have cultural heritage value or interest as per Ontario Regulation 9/06	No impact to property or structures of cultural heritage value that have a municipal heritage designation as determined by Heritage Sarnia or Council resolution
	Protection of properties that are listed or designated under Part IV of the <i>Ontario Heritage Act</i>	No impact to property or structures with heritage designations under the <i>Ontario Heritage Act</i>
	Protection of archaeological resources and historic sites	No ground disturbance in areas of archaeological potential

NEXT STEPS



Next Steps:

- Receive and review comments received from this Public Information Centre, and from external agencies.
- Identify and evaluate alternative solutions.
- Confirm the preferred solution.
- Identify and evaluate alternative design concepts.
- Hold second Public Information Centre during November/December 2015. Review comments received.
- Confirm preferred design and issue the Notice of Study Completion and Environmental Study Report for public review.

Your Comments are Important to Us

Please ask questions of the project team, and complete a comment sheet before you leave.

You may also submit your comment sheet and return by mail until November 13, 2015.

Joe Boothe

Superintendent, Environmental Services
City of Sarnia
255 North Christina Street
PO Box 3018
Sarnia, ON, N7T 7N2
(519) 332-0527 ext. 3590
Joe.Boothe@sarnia.ca

Jessalyn Oke

Environmental Assessment Specialist
Golder Associates Ltd.
625 Century Avenue, Suite #100
Mississauga, ON, L5N 7K2
(905) 567-4444
Jessalyn_Oke@golder.com

Freedom of Information and Protection of Privacy

Information collected at this Public Information Centre is being collected in accordance with the *Freedom of Information and Protection of Privacy Act* (R.S.O. 1990). This information will be kept by the City of Sarnia on file and may be included in study documentation. With the exception of personal information, all comments will become part of the public record. Names and addresses will be kept confidential.

**MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT
SHORELINE PROTECTION OF CENTENNIAL PARK – SARNIA BAY HARBOUR FRONT**



Public Information Centre #1 – October 14, 2015

Please Sign-in

Name	Address	Telephone	email

Freedom of Information and Protection of Privacy

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**MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT
SHORELINE PROTECTION OF CENTENNIAL PARK – SARNIA BAY HARBOUR FRONT**



Public Information Centre #1 – October 14, 2015

Please Sign-in

Name	Address	Telephone	email
NICK BORNAIS PRES. BLUEWATER ANGLERS			
PRE BOTHWELL			
MIKE CHURCHILL			
Bud & Nelly Hyde			
EVA D'Amico			
JOHN DE VEEB			
Winston Prince			
Nancy Bourgeois			
Matt Redden			
LAURA OKE			
GAIL OKE			
Don + Nancy Oke			

Freedom of Information and Protection of Privacy

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**MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT
SHORELINE PROTECTION OF CENTENNIAL PARK – SARNIA BAY HARBOUR FRONT**



Public Information Centre #1 – October 14, 2015

Please provide your comments on the proposed Shoreline Protection of Centennial Park Project:

1. Should additional evaluation criteria be considered or should any of the presented evaluation criteria be modified?

2. Are there any specific considerations that should be accounted for when considering the alternatives for shoreline protection at Centennial Park?

3. Do you have any other comments on the information presented at this Public Information Centre or the project in general?

Comment sheets can be completed at the Public Information Centre, or sent to one of the contacts listed below:

Joe Boothe
Superintendent, Environmental Services
City of Sarnia
255 North Christina Street
PO Box 3018, Sarnia ON, N7T 7N2
Joe.Boothe@sarnia.ca

Jessalyn Oke
Environmental Assessment Specialist
Golder Associates Ltd.
625 Century Avenue, Suite #100
Mississauga, ON, L5N 7K2
Jessalyn_Oke@golder.com

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**MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT
SHORELINE PROTECTION OF CENTENNIAL PARK – SARNIA BAY HARBOUR FRONT**



Public Information Centre #1 – October 14, 2015

Please provide your comments on the proposed Shoreline Protection of Centennial Park Project:

1. Should additional evaluation criteria be considered or should any of the presented evaluation criteria be modified?

Keep the shoreline full public access.

2. Are there any specific considerations that should be accounted for when considering the alternatives for shoreline protection at Centennial Park?

Consider walk-in boat launch at or near existing boat ramp for small boats.

Request to the City of Sarnia – Keep the new launch "Free to the Public" or very small fee for use.

3. Do you have any other comments on the information presented at this Public Information Centre or the project in general?

Consider transient boat dock for 10+ boats at or near downtown to allow visitors to shop + eat downtown.

Comment sheets can be completed at the Public Information Centre, or sent to one of the contacts listed below:

Joe Boothe
Superintendent, Environmental Services
City of Sarnia
255 North Christina Street
PO Box 3018, Sarnia ON, N7T 7N2
Joe.Boothe@sarnia.ca

Jessalyn Oke
Environmental Assessment Specialist
Golder Associates Ltd.
625 Century Avenue, Suite #100
Mississauga, ON, L5N 7K2
Jessalyn_Oke@golder.com

Thanks

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Information collected at this Public Information Centre is being collected in accordance with the *Freedom of Information and Protection of Privacy Act* (R.S.O. 1990). This information will be kept by the City of Belleville on file and may be included in study documentation. With the exception of personal information, all comments will become part of the public record. Names and addresses will be kept confidential.

Municipal Class Environmental Assessment
Shoreline Protection of Centennial Park – Sarnia Bay Waterfront

Public Information Centre #1 – October 14, 2015

Comments:

1. Should additional evaluation criteria be considered or should any of the presented evaluation criteria be modified?

-The Centennial Park site does not contain significant woodlands, wetlands or ANSIs. Unless there is a particular reason for the PPS natural heritage evaluation criteria being included, it is suggested that they be removed (E.g. If a woodland feature is not present at the site, how can it be protected?).

Supportive of these types of criteria:

- establish a well-connected shoreline trail network,
- accessibility features included
- low maintenance
- beautifies the natural environment and park system
- supportive of fish habitat
- respects nature (e.g. wave action, ice)
- safe for children
- will not contribute to drowning deaths
- does not hinder park functions
- cost-effective over the long-term
- ability to bring in heavy equipment, if needed, for future maintenance work
- good design in relation to other infrastructure
- consider public festivals
- don't just replace what we have, find ways to make the new design more useful in many respects (art, shoreline protection, usable public spaces, safe, accessible, multi-purpose, affordable, integrate cultural monuments in reconstruction, etc.)
- consider Phragmites management along the shoreline
- are there better design options for new boat ramps (e.g. ski-doo's, rowing boats, ice fishers, various types and sizes of boats, accessibility features).

2. Are there any specific considerations that should be accounted for when considering the alternatives for shoreline protection at Centennial Park?

- Will the site have on-going monitoring wells or devices?

- What is the nature of the contamination? E.g. Although it may be contained at this time, how will contaminants behave in the future? Will they liquefy (break down by bacterial action) and migrate through sediment or groundwater?
- Will the shoreline protective works need to integrate structures for containment of contaminants?
- What types of materials are recommended for the Bay?

3. Do you have any other comments on the information presented at this Public Information Centre or the project in general?

- For future meetings, suggest a short presentation by City staff and/or the consultant, for the benefit of the public, followed by question & answer period, and then an open house format. This will allow members of the public to better understand the process and how they can provide meaningful comment (or not).
- Are there funding opportunities that could be explored for this site?
 - Environment Canada (Delisting of the St. Clair River Area of Concern)
 - Friends of the St. Clair River
 - County of Lambton (ask their grant person)
 - St. Clair Region Conservation Authority
 - Local industry
 - Bluewater Trails
 - Grant opportunities?



APPENDIX N

Public Information Centre #2 Panels, Sign-in Sheets, Comments and Summary



SHORELINE PROTECTION OF CENTENNIAL PARK SARNIA BAY HARBOURFRONT CLASS EA PUBLIC INFORMATION CENTRE 2 SUMMARY REPORT

OPEN HOUSE DATE	November 25, 2015
LOCATION	City Hall, Council Chambers, 255 North Christina Street, Sarnia
PROJECT REPRESENTATIVES	Andre Morin (City of Sarnia) Bryan Prouse (City of Sarnia) Joe Boothe (City of Sarnia) Jessalyn Oke (Golder Associates Ltd.) Wendy Ott (Golder Associates Ltd.) Marc Schwerzmann (Golder Associates Ltd.)

Field Code Changed

The second of two Public Information Centres (PICs) was held on November 25, 2015 at the Sarnia City Hall, Council Chambers, as partial fulfillment of the public consultation requirements for the Schedule 'C' Class Environmental Assessment (EA) for Shoreline Protection of Centennial Park along the Sarnia Bay Harbour Front.

The PIC was held from 6:30 p.m. to 8:00 p.m., with representatives from the City of Sarnia and Golder Associates Ltd. in attendance to answer questions.

Eleven (11) information panels were on display (attached), summarizing the problem/opportunity statement for the project, the Municipal Class EA process, the findings of the background studies, the alternative designs considered, and the evaluation of the alternatives with the preferred design identified.

Three (3) people attended the PIC (sign-in sheet attached). Comment sheets were available to all attendees, and the information panels were posted on the City's website for public review. Three (3) comment sheets were returned (attached).

Comment [J.Oke1]: To be confirmed at close of comment period (December 31)

Issues and concerns raised by PIC attendees and noted on the received comment sheets included:

1. Boat Launch – Understanding construction timelines (i.e., installation of the new boat launch prior to removal of the existing boat launch); and
2. Preferred Alternatives – Overview of the evaluation of alternatives.

The above issues / concerns were discussed at the PIC, and will be documented in the Environmental Study Report.

ATTACHMENTS:

Display Panels
Blank Sign –in Sheet
Completed Sign-in Sheet
Blank Comment Sheet
Comment Sheets Received

Field Code Changed



SHORELINE
PROTECTION
OF CENTENNIAL PARK
SARNIA BAY HARBOUR FRONT

PUBLIC INFORMATION
CENTRE

November 25, 2015
City Hall, Council Chambers

Municipal Class
Environmental
Assessment



PROJECT HISTORY & PROBLEM/OPPORTUNITY STATEMENT



2012

June: The City responded to a reported spill in the Park and found a tar-like substance breaking out at ground level at various locations in the Park. A Phase I Environmental Site Assessment (ESA) was completed to review historical land use to determine potential contaminants. The source of the contamination was from fill used to construct the Park.

2013

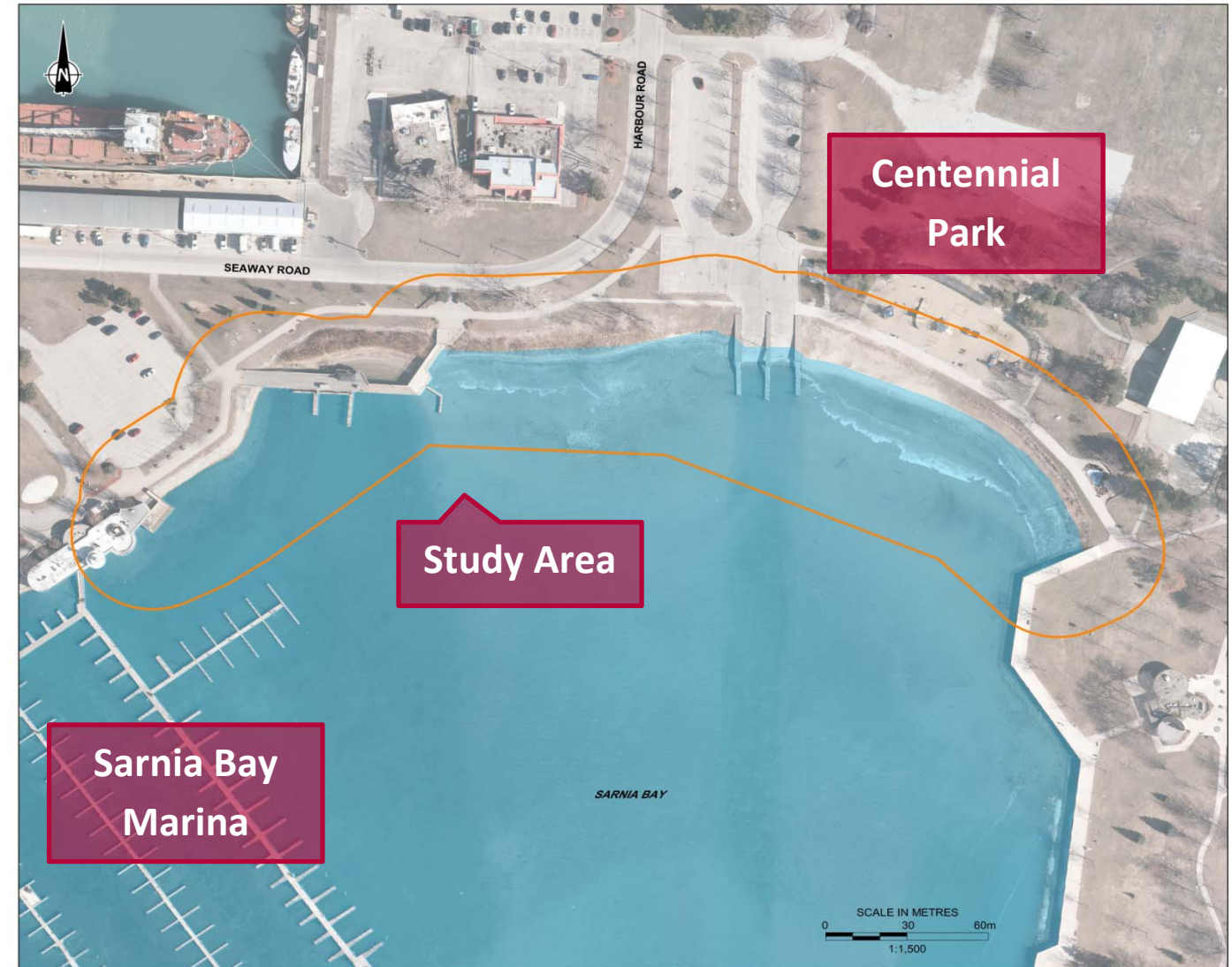
May: A Phase II ESA was completed to identify and quantify contaminants. A Risk Assessment to address potential health impacts was also completed.
November: City Council was presented with the results of the investigations and available remedial (clean-up) measures.

2014

March: A Remedial Action Plan (RAP) for the Park was released for public review and comment. The RAP included the recommendation to place a clean soil cap at the Park to contain the contamination.
June: City Council approved the RAP.
September: Phase 1 of the remediation commenced.

2015

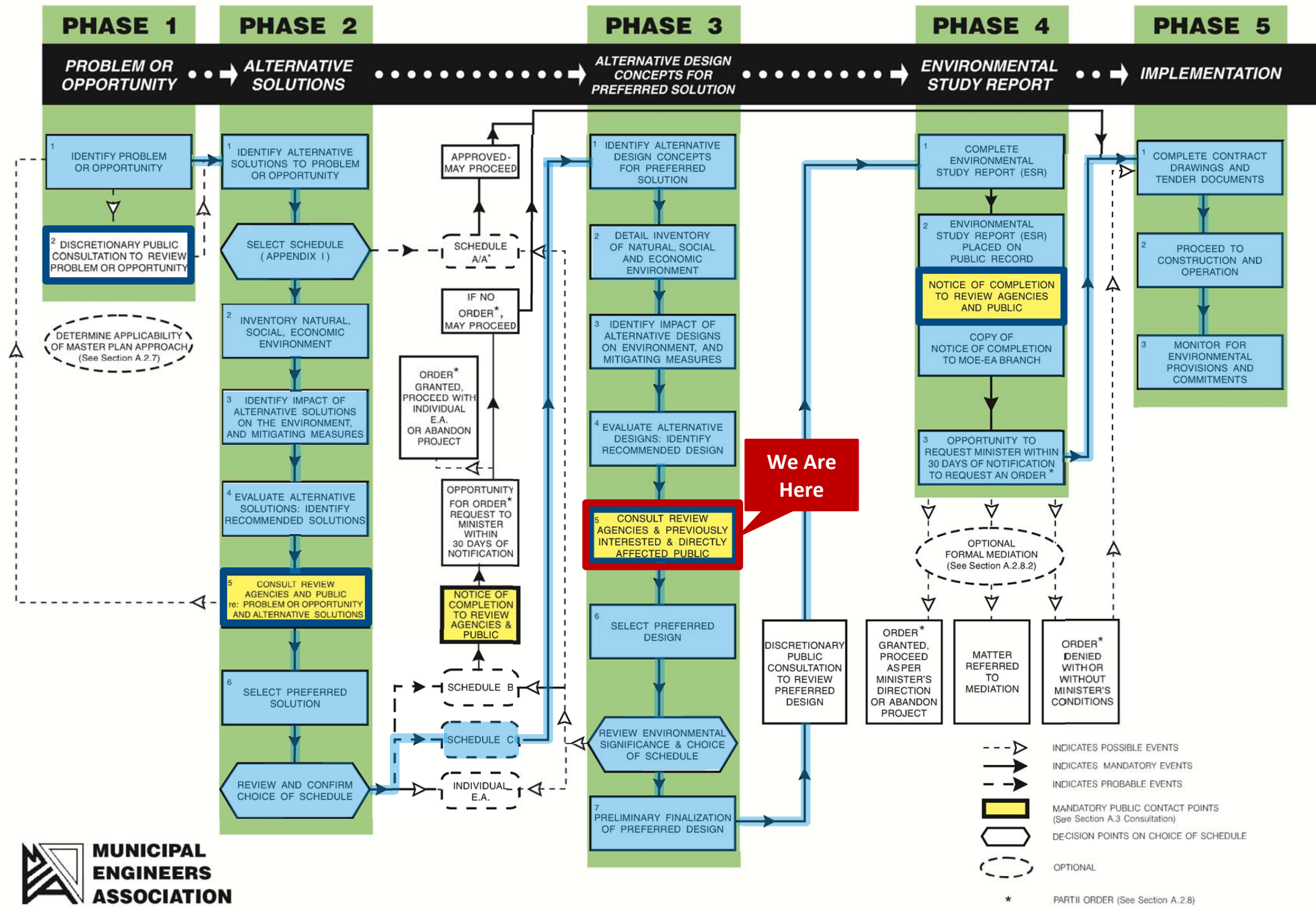
April: The Municipal Class Environmental Assessment (EA) was initiated. A Class EA is required when municipal plans include construction of new shoreline works, including installation of seawalls and boat ramps.
May: Public informed of Project through the Notice of Commencement.
June / July / August: Characterization of existing conditions.



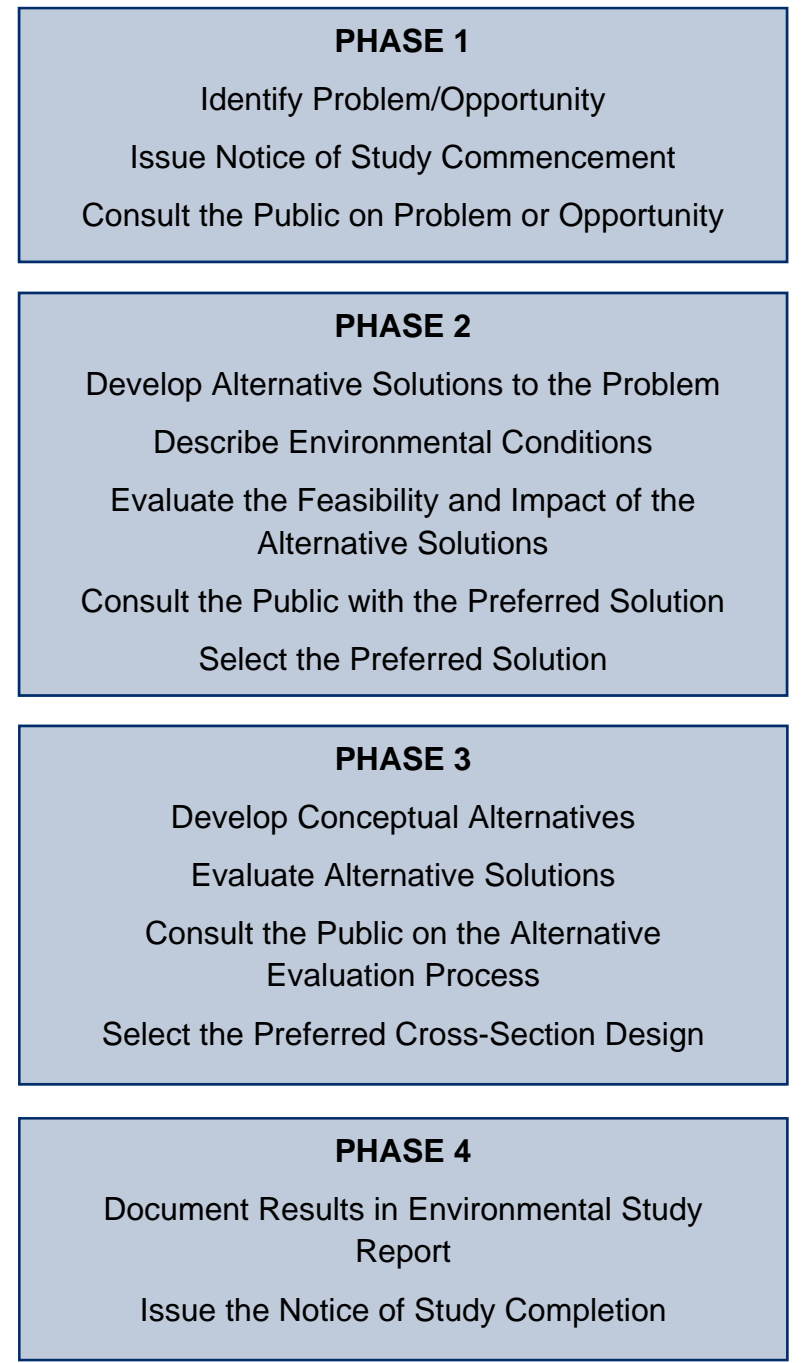
PROBLEM/OPPORTUNITY STATEMENT:

The proposed solution to contain contaminants requires an overall increase in site grading of the Park by 0.5 metres, which necessitates the installation of shoreline protection at the Park's southern waterfront along Sarnia Bay. The Project also includes removal of the existing boat ramps and installation of new ramps closer to the existing marina.

SCHEDULE 'C' MUNICIPAL CLASS EA PROCESS



Process Summary



SUPPORTING STUDIES FOR THE PROJECT

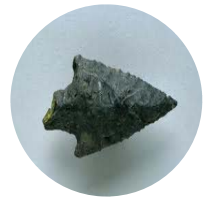


Environmental and Design Studies



Natural Environment Study

The natural environment study identified natural features, including species at risk (SAR) that have potential to occur within the study area. This was based on the planning status of the surrounding lands, a review of publicly available background information, and agency consultation. The results of the study were used to assess the potential impacts on the natural environment related to each proposed alternative, and identify appropriate mitigation measures.



Archaeology Study

No archaeological studies were completed for the Project. Areas subject to extensive land disturbances, such as grading, have low to no archaeological potential and are not recommended for archaeological investigation. The existing shoreline of Sarnia Bay within the study area is man-made and the result of dredging and infilling between the 1920s and 1960s. These activities were undertaken to provide new harbour and rail transportation facilities.



Tree Inventory

The tree inventory investigated if there were any significant trees within the study area that required preservation and protection to minimize the impact of construction injury. The definition of a 'significant tree' was from the Ontario Urban Forestry Council and Forest Ontario's definitions of a 'heritage tree'.



Geotechnical Investigation

The geotechnical investigation determined the subsurface (underground) conditions at the Park. The geotechnical investigation provided recommendations for the alternatives under consideration and construction of the shoreline protection. Results of the geotechnical investigation guided the development of alternatives and will be incorporated into the Environmental Study Report.



Built and Cultural Heritage Evaluation

The potential for built and cultural heritage was considered by the City's heritage planners through application of the Ministry of Tourism Culture and Sport's checklist criteria. A review of information to identify land use history, and a review of municipally and provincially designated historical sites and districts was completed to support the completion of the checklist.



Surface Water Study

The surface water study reviewed available information to determine the flood risk of the study area and assessed wind-wave climate, bathymetry (shape) and sediment transport processes in Sarnia Bay. Results of the surface water study guided the development of alternative solutions and will be incorporated into the Environmental Study Report.

EXISTING FEATURES / KEY STUDY RESULTS



LEGEND

Terrestrial Vegetation Communities

- Commercial
- Manicured Lawn
- Deciduous Hedgerow
- Deciduous Cultural Woodland
- Cultural Meadow
- Recreational
- Shoreline

Tree Inventory

- X Existing Tree to be Removed*

Aquatic Survey

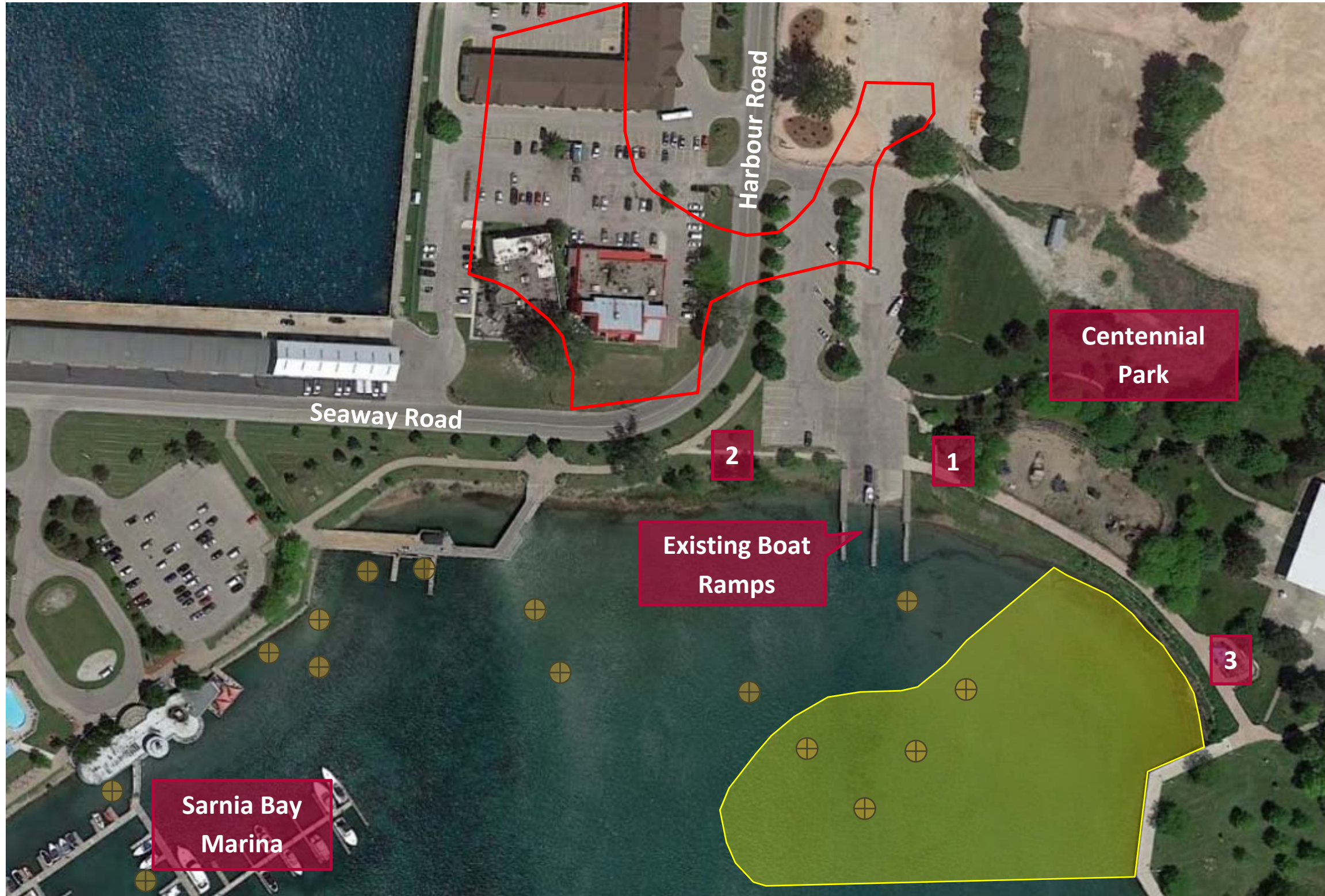
- Fish Survey Locations*

Aquatic Community

Based on records provided by St. Clair Region Conservation Authority (SCRCA) and Ontario Ministry of Natural Resources and Forestry (MNR), 23 fish species have been identified within the general vicinity of the Study Area and consist primarily of cool/coldwater fish species. Shoreline Protection alternatives are designed to minimize in-water works and be protective of the local fishery.

*Locations of existing features in the study area are approximate

EXISTING FEATURES / KEY STUDY RESULTS



LEGEND	
	Area Not Affected by O. Reg. 97/04
	Sediment Contamination Area
⊕	Sediment Sampling Locations
1	Victims of Chemical Valley Missing Worker Memorial
2	Footsteps Tribute to Courage – Never Walk Alone
3	Victorian Order of Nurses Memorial Garden Fountain

Stormwater Management

Currently stormwater drains from Centennial Park towards Sarnia Bay. Any fill placed or re-graded has been designed to maintain the existing surface water drainage towards Sarnia Bay.

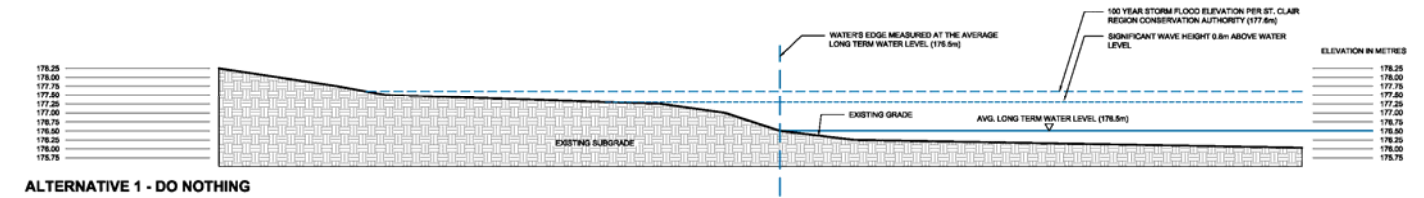
*Locations of existing features in the study area are approximate

ALTERNATIVE DESIGNS FOR SHORELINE PROTECTION



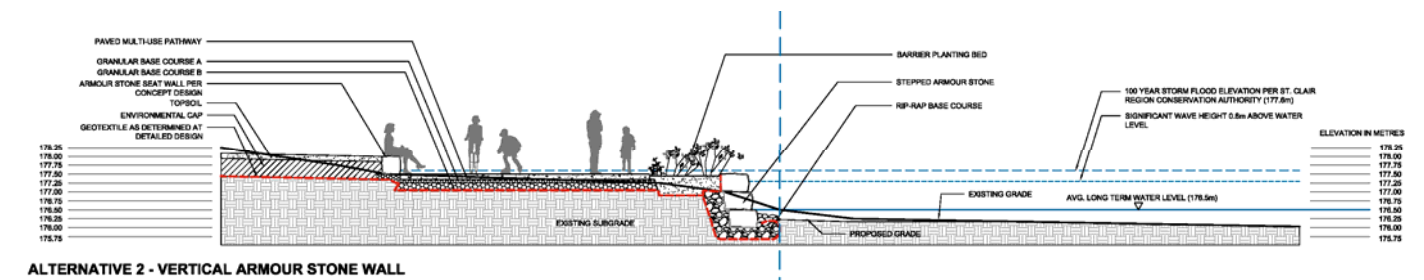
Alternative 1 - Do Nothing

As part of the EA process, the City is required to evaluate the impact of NOT addressing the problem/opportunity in the study area. Under this scenario, the soil cap in the Park would be susceptible to erosion and stability issues, resulting in water quality and health concerns. As such, a soil cap in the vicinity of the shoreline would not be a feasible since no shoreline protection would be provided.



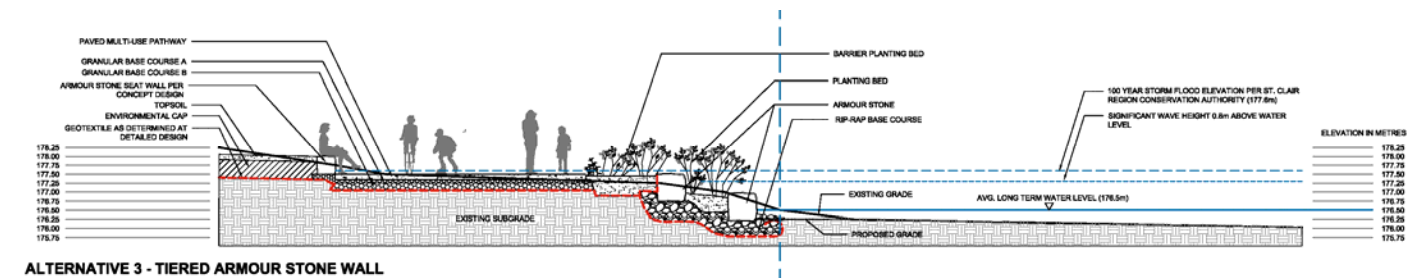
Alternative 2 – Vertical Armour Stone Wall

This alternative uses three levels of armour stone, stacked almost vertically, on a base of rip-rap to create a retaining wall along the shoreline. A planting bed will be located at the top of the wall to deter pedestrian access to the edge of the water. Under this scenario the armour stone wall ensures shoreline stability and eliminates shoreline erosion, and retains the required soil cap. The narrow wall allows the multi-use pathway to be closer to the shoreline and allows for more usable park space to the north. Aesthetically there is a uniform, visually continuous edge to the shoreline.



Alternative 3 – Tiered Armour Stone Wall

This alternative uses two levels of armour stone, tiered with a planting bed between levels, on a base of rip-rap to create a retaining wall along the shoreline. A planting bed will be located at the top of the wall to deter pedestrian access to the edge of the water. Under this scenario, the armour stone wall ensures shoreline stability and eliminates shoreline erosion, and retains the required soil cap. The wider wall creates more distance between the pathway and the shoreline and reduces usable park space to the north. Aesthetically there is a natural appearance to the shoreline.



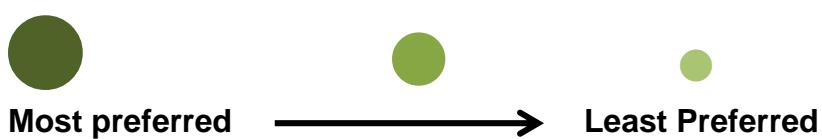
Each of these scenarios was evaluated relative to regulatory/policy standards, issues brought forward by the public, City guidelines, and design standards. The results of the evaluation are shown on the next presentation board.

EVALUATION OF THE SHORELINE ALTERNATIVES



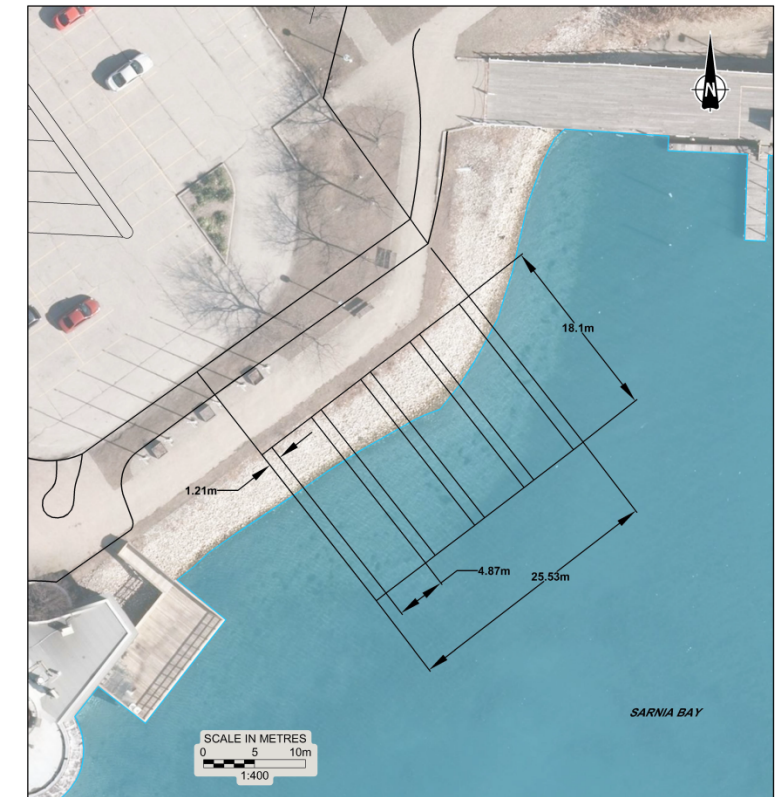
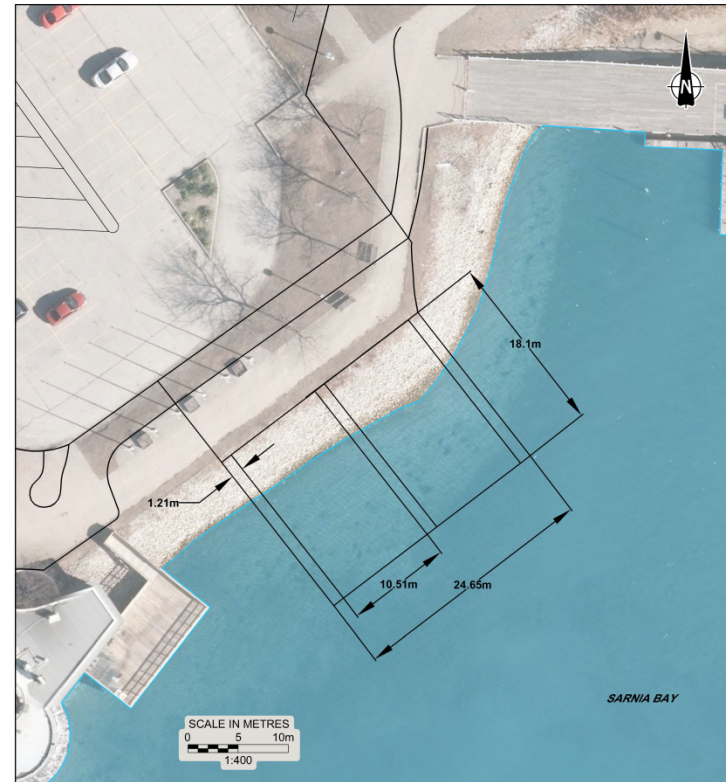
Preferred Alternative

	Regulatory/Policy/Design Requirement	General Objectives	Project-specific Target	Alternative 1 Do nothing	Alternative 2 Vertical	Alternative 3 Tiered
Natural Environment	Compliance with natural heritage policies of the Provincial Policy Statement (2014)	Protection of fish habitat	Minimize development or site alteration in fish habitat or riparian areas (defined as areas within 15 m from top of bank)	●	●	●
	Compliance with the <i>Endangered Species Act</i> (2007)	Protection of species listed as threatened or endangered in Ontario	No killing, harming or harassing of species, or impacting the habitat of species identified as endangered or threatened	●	●	●
	Compliance with the <i>Species at Risk Act</i> (SARA)(2002)	Protection of species listed as endangered, threatened or extirpated in Canada, and migratory birds listed under the SARA	No impact to critical habitat of endangered, threatened or extirpated aquatic species or habitat of migratory birds	●	●	●
	Compliance with the <i>Migratory Birds Convention Act</i> (1994)	Protection of nesting habitat of migratory birds in Canada	No clearing of trees, shrubs, meadow grasses or existing structures that would result in the destruction of nests of migratory birds during the breeding season	●	●	●
	Compliance with Ontario Regulation 171/06 – St. Clair Region Conservation Authority	Protection of public safety and property from natural hazards, and prevention of pollution and destruction of sensitive environmental areas such as wetlands, shorelines and watercourses	Minimize excavation, filling, site grading or development within the regulated limit	●	●	●
	Consideration of best practices for watershed protection	Preservation of riparian zones adjacent to shorelines, minimization of shoreline erosion and sedimentation and maintenance of stormwater runoff at pre-development levels	Maintain natural drainage patterns and manage stormwater runoff	●	●	●
Social and Economic Environment	Compliance with the City of Sarnia Adopted Official Plan (2014)	Protection of lands designated as natural heritage systems (i.e., natural areas, parks, open space, natural hazards)	Protect, maintain, enhance and restore natural heritage systems where it is not feasible to direct development away from these areas	●	●	●
		Avoidance of building / structure construction within identified one-zone floodplain policy areas	Allow construction in support of public recreation only where construction will not affect flood levels	●	●	●
		Consideration for public safety through protection of the St. Clair River waterfront and shoreline	Protect, maintain and enhance the waterfront through naturalization and improved stability of the shoreline	●	●	●
		Provision for bicycle and pedestrian corridors and linkages within urban natural areas	Maintain or improve existing multi-use walking / bicycling corridor along Sarnia Bay shoreline at the Park	●	●	●
		Protection of lands designated as park and open space	Protect, maintain, enhance and improve parks and open spaces	●	●	●
		Application of high standards of urban design wherever possible	Maintain uniformity of design for elements such as benches, railings, lighting fixture, walkways and signs	●	●	●
		Consideration of the protection of urban City trees	Protect and preserve existing mature trees within the same site, or in an adjacent natural area or natural hazard lands, where possible	●	●	●
	Compliance with the City of Sarnia Waterfront Master Plan (2005)	Enhance the opportunity for public enjoyment of the waterfront and waterfront character	Development consistent with land designations and plans of George Street to Exmouth Street and West of Harbour Road waterfront areas	●	●	●
		Protection of continuous public walkway at or near water edge	Maintain or improve continuous walkway	●	●	●
		Consideration of Public concerns identified for the project	Consideration of power sources for recreational uses, such as the Celebration of Lights	Maintain or improve adequate power source for recreational uses	●	●
Technical Design	Consideration of construction duration and timing	Efficient duration of construction that is protective of the natural heritage environment	Limit and reduce construction duration and timing within wildlife protection windows, as applicable	●	●	●
	Consideration for the protection of public safety	Safe separation of pedestrians from shoreline	Improve and protect public safety through provision for buffer between sidewalks and shoreline	●	●	●
	Consideration of durability and life expectancy	Long-term solution to shoreline protection	Design that has long life expectancy and can withstand environmental factors	●	●	●
	Consideration for flooding potential	Consideration of public safety against flood potential appropriate for an urban park environment (i.e., 10-year return period)	Provision of a feasible design that considers protection of the public against flood events having a return period of 10 years taking into account water levels, waves and wave run up	●	●	●
	Consideration of coastal hydraulics and compliance technical guidelines for shoreline protection in an urban park environment	Feasible design that can be implemented, given expected water level and wave conditions	Provision of a feasible design that considers the historic range of water levels in Sarnia Bay, including significant wave height and wave run up	●	●	●



A detailed analysis of the alternatives can be found on the City's website at: www.city.sarnia.on.ca

ALTERNATIVE DESIGNS FOR BOAT LAUNCH



Alternative 1 - Do Nothing

This alternative is to keep the boat launch in its current location and condition.

Alternative 2 – Remove and Build a Replacement with Two Ramps

This alternative would build a replacement boat launch with two ramps adjacent to the Sarnia Bay Marina. Under this scenario the current level of service for pleasure craft users will be maintained and access will be provided through the marina parking lot.

Alternative 3 – Remove and Build a Replacement with Four Ramps

This alternative would build a replacement boat launch with four ramps adjacent to the Sarnia Bay Marina. Under this scenario pleasure craft users will see an increased level of service and access will be provided through the marina parking lot.

Each of these scenarios was evaluated relative to regulatory/policy standards, issues brought forward by the public, City guidelines, and design standards. The results of the evaluation are shown on the next presentation board.

EVALUATION OF THE BOAT LAUNCH ALTERNATIVES



Preferred Alternative

	Regulatory/Policy/Design Requirement	General Objectives	Project-specific Target	Alternative 1 Do nothing	Alternative 2 Two Ramps	Alternative 3 Three Ramps
Natural Environment	Compliance with natural heritage policies of the Provincial Policy Statement (2014)	Protection of fish habitat	Minimize development or site alteration in fish habitat or riparian areas (defined as areas within 15 m from top of bank)	●	●●●	●
	Compliance with the <i>Endangered Species Act</i> (2007)	Protection of species listed as threatened or endangered in Ontario	No killing, harming or harassing of species, or impacting the habitat of species identified as endangered or threatened	●	●●●	●●●
	Compliance with the <i>Species at Risk Act</i> (SARA)(2002)	Protection of species listed as endangered, threatened or extirpated in Canada, and migratory birds listed under the SARA	No impact to critical habitat of endangered, threatened or extirpated aquatic species or habitat of migratory birds	●	●●●	●●●
	Compliance with the <i>Migratory Birds Convention Act</i> (1994)	Protection of nesting habitat of migratory birds in Canada	No clearing of trees, shrubs, meadow grasses or existing structures that would result in the destruction of nests of migratory birds during the breeding season	●●●	●	●
	Compliance with Ontario Regulation 171/06 – St. Clair Region Conservation Authority	Protection of public safety and property from natural hazards, and prevention of pollution and destruction of sensitive environmental areas such as wetlands, shorelines and watercourses	Minimize excavation, filling, site grading or development within the regulated limit	●	●●●	●
	Consideration of best practices for watershed protection	Preservation of riparian zones adjacent to shorelines, minimization of shoreline erosion and sedimentation and maintenance of stormwater runoff at pre-development levels	Maintain natural drainage patterns and manage stormwater runoff	●	●●●	●
Social and Economic Environment	Compliance with the City of Sarnia Adopted Official Plan (2014)	Protection of lands designated as natural heritage systems (i.e., natural areas, parks, open space, natural hazards)	Protect, maintain, enhance and restore natural heritage systems where it is not feasible to direct development away from these areas	●	●●●	●
		Avoidance of building / structure construction within identified one-zone floodplain policy areas	Allow construction in support of public recreation only where construction will not affect flood levels	●	●●●	●
		Consideration for public safety through protection of the St. Clair River waterfront and shoreline	Protect, maintain and enhance the waterfront through naturalization and improved stability of the shoreline	●	●●●	●●●
		Provision for bicycle and pedestrian corridors and linkages within urban natural areas	Maintain or improve existing multi-use walking / bicycling corridor along Sarnia Bay shoreline at the Park	●	●●●	●●●
		Protection of lands designated as park and open space	Protect, maintain, enhance and improve parks and open spaces	●	●●●	●
		Application of high standards of urban design wherever possible	Maintain uniformity of design for elements such as benches, railings, lighting fixture, walkways and signs	●	●●●	●●●
		Consideration of the protection of urban City trees	Protect and preserve existing mature trees within the same site, or in an adjacent natural area or natural hazard lands, where possible	●●●	●	●
	Compliance with the City of Sarnia Waterfront Master Plan (2005)	Enhance the opportunity for public enjoyment of the waterfront and waterfront character	Development consistent with land designations and plans of George Street to Exmouth Street and West of Harbour Road waterfront areas	●	●●●	●
		Protection of continuous public walkway at or near water edge	Maintain or improve continuous walkway	●	●●●	●●●
		Consideration of Public concerns identified for the project	Consideration of power sources for recreational uses, such as the Celebration of Lights	Maintain or improve adequate power source for recreational uses	●●●	●●●
Technical Design	Consideration of construction duration and timing	Efficient duration of construction that is protective of the natural heritage environment	Limit and reduce construction duration and timing within wildlife protection windows, as applicable	●●●	●	●
	Consideration for the protection of public safety	Safe separation of pedestrians from shoreline	Improve and protect public safety through provision for buffer between sidewalks and shoreline	●●●	●●●	●●●
	Consideration of durability and life expectancy	Long-term solution to shoreline protection	Design that has long life expectancy and can withstand environmental factors	●	●●●	●●●
	Consideration for flooding potential	Consideration of public safety against flood potential appropriate for an urban park environment (i.e., 10-year return period)	Provision of a feasible design that considers protection of the public against flood events having a return period of 10 years taking into account water levels, waves and wave run up	●●●	●●●	●●●
	Consideration of coastal hydraulics and compliance technical guidelines for shoreline protection in an urban park environment	Feasible design that can be implemented, given expected water level and wave conditions	Provision of a feasible design that considers the historic range of water levels in Sarnia Bay, including significant wave height and wave run up	●	●●●	●●●



A detailed analysis of the alternatives can be found on the City's website at: www.city.sarnia.on.ca

FINAL STEPS



Your Comments are Important to Us

Please ask questions of the project team, and complete a comment sheet before you leave.
You may also submit your comment sheet and return by mail until December 31, 2015.

Final Steps:

- Receive and review comments received from this Public Information Centre, and from external agencies.
- Confirm preferred design and issue the Notice of Study Completion and Environmental Study Report for public review.
- Receive and review comments received during the 30-day public review period

Joe Boothe

Superintendent, Environmental Services
City of Sarnia
255 North Christina Street
PO Box 3018
Sarnia, ON, N7T 7N2
(519) 332-0527 ext. 3590
joe.boothe@sarnia.ca

Jessalyn Oke

Environmental Assessment Specialist
Golder Associates Ltd.
625 Century Avenue, Suite #100
Mississauga, ON, L5N 7K2
(905) 567-4444
jessalyn_oke@golder.com

Appeals Process

If concerns regarding this Project cannot be resolved in discussion with the City of Sarnia, a person or party may request that the Minister of the Environment and Climate Change make an order for the Project to comply with Part II of the *Environmental Assessment Act* (referred to as a Part II Order), which requires an Individual Environmental Assessment. Requests must be received by the Minister within the 30-day review period following issuance of the Notice of Study Completion. If no new or outstanding concerns are brought forward during the review period, the City may complete the detailed design and construction of the Project. Anyone wishing to request a Part II Order must submit a written request, by the end of the 30 calendar day review period, to the Minister of the Environment and Climate Change at the following address, with copies sent to the Director of the Environmental Approvals Branch, and the City's Project Manager.

Hon. Glen Murray
Ministry of the Environment and Climate Change
77 Wellesley St. W, Floor 11
Toronto, ON, M7A 2T5

Director, Environmental Approvals Branch
Ministry of the Environment and Climate Change
135 St. Clair Ave. W, Floor 1
Toronto, ON, M4V 1P5

Freedom of Information and Protection of Privacy

Information collected at this Public Information Centre is being collected in accordance with the *Freedom of Information and Protection of Privacy Act* (R.S.O. 1990). This information will be kept by the City of Sarnia on file and may be included in study documentation. With the exception of personal information, all comments will become part of the public record. Names and addresses will be kept confidential.

**MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT
SHORELINE PROTECTION OF CENTENNIAL PARK – SARNIA BAY HARBOUR FRONT**



Public Information Centre #2 – November 25, 2015

Please Sign-in

Name	Address	Telephone	email

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**MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT
 SHORELINE PROTECTION OF CENTENNIAL PARK – SARNIA BAY HARBOUR FRONT
 Public Information Centre #2 – November 25, 2015**



Please Sign-in

Name	Address	Telephone	email
D. VAN LEEUWZEN			
Chad Thomason			
DICK BORNAIS (BLUEWATER ANGLERS)			

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**MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT
SHORELINE PROTECTION OF CENTENNIAL PARK – SARNIA BAY HARBOUR FRONT**



Public Information Centre #2 – November 25, 2015

Please provide your comments on the proposed Shoreline Protection of Centennial Park Project:

Comment sheets can be completed at the Public Information Centre, or sent to one of the contacts listed below:

Joe Boothe
Superintendent, Environmental Services
City of Sarnia
255 North Christina Street
PO Box 3018, Sarnia ON, N7T 7N2
joe.boothe@sarnia.ca

Jessalyn Oke
Environmental Assessment Specialist
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**MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT
SHORELINE PROTECTION OF CENTENNIAL PARK – SARNIA BAY HARBOUR FRONT**



Public Information Centre #2 – November 25, 2015

Please provide your comments on the proposed Shoreline Protection of Centennial Park Project:

This has been quite a project and looks like its progressing well. Appreciate the public & groups being able to input. Bluewater Anglers is quite interested in ensuring that the old boat ramp is not taken out of service until the new ramp is in service.

Comment sheets can be completed at the Public Information Centre, or sent to one of the contacts listed below:

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**MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT
SHORELINE PROTECTION OF CENTENNIAL PARK – SARNIA BAY HARBOUR FRONT**



Public Information Centre #2 – November 25, 2015

Please provide your comments on the proposed Shoreline Protection of Centennial Park Project:

Thanks for providing staff to explain the City's plans for this issue and to answer questions on various aspects of the City plan.

Comment sheets can be completed at the Public Information Centre, or sent to one of the contacts listed below:

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Superintendent, Environmental Services
City of Sarnia
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PO Box 3018, Sarnia ON, N7T 7N2
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**MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT
SHORELINE PROTECTION OF CENTENNIAL PARK – SARNIA BAY HARBOUR FRONT**



Public Information Centre #2 – November 25, 2015

Please provide your comments on the proposed Shoreline Protection of Centennial Park Project:

This has been a mammoth undertaking. It is great to see that this project is coming along a lot faster than most people expected.

Comment sheets can be completed at the Public Information Centre, or sent to one of the contacts listed below:

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Superintendent, Environmental Services
City of Sarnia
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As a global, employee-owned organisation with over 50 years of experience, Golder Associates is driven by our purpose to engineer earth's development while preserving earth's integrity. We deliver solutions that help our clients achieve their sustainable development goals by providing a wide range of independent consulting, design and construction services in our specialist areas of earth, environment and energy.

For more information, visit golder.com

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