

Appendix G: Public and Stakeholder Consultation

Stakeholder Advisory Committee

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Jean Louis Gaudet

From: Krizanac, Ivana <Ivana.Krizanac@Halton.ca>
Sent: September-15-14 1:23 PM
To: Duddeck, Cathy
Cc: Carr, Gary; MacCaskill, Jane; Harnum, Jim; Oka, Kiyoshi; Subramaniam, Nitti; Braczek, Marek; Borchetta, Nancy; Kochmar, Teodor; Thorne, Mike; Arun Jain; Jean Louis Gaudet
Subject: SAC Invitation - Rerating of Oakville WPP EA and Possible Intake Extension
Attachments: Oakville WPP SAC invite Letter.pdf; Oakville Rerating Class EA_SAC TOR.pdf

Dear Councillor Duddeck,

Attached is an invitation to a Stakeholder Advisory Committee (SAC) for the Class Environmental Assessment for rerating of the Oakville Water Purification Plant (WPP) from 109 to 130 ML/d and possible water intake extension. Attached with the invitation is the SAC terms of reference for your consideration.

The study project team member will be contacting you shortly to confirm your receipt of the letter and to confirm your participation.

Regards,

Ivana Krizanac

Water Design & Construction Clerk

Tel: 905-825-6000, ext. 7416

Fax: 905-825-0267

Email: ivana.krizanac@halton.ca

This message, including any attachments, is privileged and intended only for the person(s) named above. This material may contain confidential or personal information which may be subject to the provisions of the Municipal Freedom of Information & Protection of Privacy Act. Any other distribution, copying or disclosure is strictly prohibited. If you are not the intended recipient or have received this message in error, please notify us immediately by telephone, fax or e-mail and permanently delete the original transmission from us, including any attachments, without making a copy.

Thank you



September 15, 2014

Public Works
Water Services
1151 Bronte Road
Oakville, ON L6M 3L1

Cathy Duddeck
Regional Councillor
Ward 2
Halton Region
137 Wolfdale Ave.
Oakville, ON L6L 4R9

Dear Councillor Duddeck:

Re: Stakeholder Advisory Committee – Municipal Class Environmental Assessment for the Rerating of the Oakville Water Purification Plant from 109 to 130 ML/d and Possible Water Intake Extension, Ward 2, Town of Oakville, Our File: PR-2989

The Region of Halton is initiating a Class Environmental Assessment (Class EA) for the purpose of rerating the Oakville Water Purification Plant (WPP) from 109 million litres per day (ML/d) to 130 ML/d. The study will also address issues faced by the Oakville WPP from occasional high turbidity (i.e. sediment) in the facility's water intake following periods of heavy rainfall. A Notice of Commencement has been published on September 4, 2014 (please see attached copy for your reference).

As part of the Class EA process, the Region is forming a Stakeholder Advisory Committee (SAC) consisting of members from review agencies and the local and regional councillors. A list of proposed members is attached for your information. The Region invites you to be a member and contribute to providing guidance to the project team.

With this invitation in mind, please find enclosed the proposed terms of reference for the SAC for your information. It is anticipated that the SAC will meet twice during the Class EA process, likely once in Fall 2014 followed by another meeting in Spring 2015. Notice of the meeting, agenda, and any relevant materials will be distributed to the SAC members in advance of the meeting.

We look forward to having you as a member of the Stakeholder Advisory Committee. A member of our project team will be calling you in the near future to confirm if you have received this letter and to confirm your participation. If you have any questions, please contact the undersigned at (905) 825-6000 Ext. 7128 or Arun Jain, Manager Linear Infrastructure and Class EA Lead of Exp Services Inc. at (905) 793-9800 Ext. 2373 or at arun.jain@exp.com.

The Regional Municipality of Halton



Thank you in advance for your consideration on this matter.

Sincerely,

A handwritten signature in black ink, appearing to read "Marek Braczek", with a long horizontal flourish extending to the right.

Marek Braczek, MMI, P. Eng.,
Project Manager
Water Design & Construction

cc: Gary Carr, Halton Regional Chair
Jane MacCaskill, CAO, Halton Region
Jim Harnum, C.E.T., MBA, Commissioner, Public Works, Halton Region
Kiyoshi Oka, P.Eng., Director, Water Services, Halton Region
Nitti Subramaniam, P.Eng., Manager, Water Design & Construction, Halton Region

Oakville Water Purification Plant Rating Class EA

Stakeholder Advisory Committee – Invitation List

Organization	Contact
Region of Halton (local regional councillor)	Cathy Duddeck Regional Councillor Ward 2 Halton Region 137 Wolfdale Ave. Oakville, ON L6L 4R9 cduddeck@oakville.ca
Town of Oakville (local town councillor)	Pam Damoff Town Councillor Ward 2 Town of Oakville 1226 Trafalgar Road Oakville, ON L6H 0H4 pdamoff@oakville.ca
Conservation Halton	Barbara Veale Manager, Planning Department Conservation Halton 2596 Britannia Road West Burlington, ON L7P 0G3 enserv@hrca.on.ca
Ministry of Environment and Climate Change	Tina Dufresne District Manager Central Region District Halton-Peel District Office Ministry of Environment and Climate Change 4145 North Service Road, Suite 300 Burlington ON L7L 6A3 tina.dufresne@ontario.ca
Ministry of Natural Resources and Forestry	Steven Strong District Planner Aurora District Office Ministry of Natural Resources and Forestry 50 Bloomington Road West Aurora, ON L4G 0L8 Steven.strong@ontario.ca
Department of Fisheries and Oceans	Paul Lashbrook Impact Assessment Biologist District Office Fisheries and Oceans Canada 3027 Harvester Road, Unit 304 Burlington, ON L7R 4K3
Town of Oakville	Kasia Piskorz Project Leader - Capital Projects-Engineering and Construction Town of Oakville 1225 Trafalgar Road Oakville, ON L6H 0H3 Tel: 905-845-6601, ext. 3533 kasia.piskorz@oakville.ca



Oakville Water Purification Plant Rerating Class Environmental Assessment

Terms of Reference for Stakeholders Advisory Committee

1. INTRODUCTION

The Regional Municipality of Halton (Region) has commenced a Schedule B Municipal Class Environmental Assessment (Class EA) study for the rerating of the Oakville Water Purification Plan (WPP) from 109 million litres per day (ML/d) to 130 ML/d. The purpose of the rerating is to ensure that the growing demand for drinking water within the Region can be met. The Region is seeking to achieve this capacity increase by optimizing and potentially upgrading the current processes at the Oakville WPP.

The study will also address issues faced by the WPP from occasional high turbidity (i.e. sediment) in the facility's water intake located close to the mouth of Sixteen Mile Creek. After periods of heavy rainfall, the Oakville WPP experiences elevated levels of turbidity in the raw water, it draws from Lake Ontario. This is due to high volumes of sediment discharged into Lake Ontario through the mouth of Sixteen Mile Creek after rain events. At times, this results in the Oakville WPP being shut down temporarily, representing a risk to the Region's long-term security of water supply.

To meet the requirements of the Class EA process, an essential element of this study will be effective communication and consultation with potential stakeholders. One of the planned activities in meeting this goal is to establish a Stakeholders Advisory Committee (SAC) that will meet at key stages of the Class EA study. This document sets out the Terms of Reference for the SAC.

2. MANDATE

The SAC is an Advisory Committee established by the Region in accordance with these Terms of Reference. Committee members are guided by these Terms of Reference.

The mandate of the SAC is to review and provide comments on the materials prepared through the various stages of the Class EA study. In particular, the role of SAC will include assisting the Region's project team in the following areas:

- ◆ Identifying stakeholder and public issues that are pertinent to the Class EA study;
- ◆ Providing insight on potential approval requirements;
- ◆ Providing input into proposed alternatives and evaluation criteria;
- ◆ Providing input to the project team regarding the development of the preferred alternative, including potential impacts and mitigation opportunities.

3. RESPONSIBILITIES OF SAC

In fulfilling their mandate, members of the SAC will be responsible for the following:

- ◆ Reviewing relevant study materials;
- ◆ Attending and participating in SAC meetings;
- ◆ Providing comment and input to the Region on information presented and any other information relevant to the Class EA study.

4. RESPONSIBILITIES OF REGIONS

- ◆ SAC members will receive project information for review approximately one week prior to each scheduled SAC meeting;
- ◆ SAC members will receive project information made available to the public and be invited to attend public meetings / workshops;
- ◆ While SAC members will provide input to the project team on the planning process and the preferred alternative, final decisions about SAC procedures and the Class EA will rest with the Region;
- ◆ All comments and suggestions made by SAC members will be documented to facilitate incorporation of the same in the Class EA process.

5. MEMBERSHIP AND STRUCTURE OF THE SAC

The SAC will include invited representatives from organizations that may have an interest in this Class EA study. Invitees will include representatives from the following groups:

- ◆ Town of Oakville;
- ◆ Conservation Halton;
- ◆ Relevant federal and provincial regulatory agencies.

The SAC will include members of the project team, including Regional staff and the project consulting team. SAC meetings will be chaired by Cathy Duddeck, Regional Councillor.

6. TERM OF THE SAC

The SAC will be in effect for the duration of this Class EA study, with an anticipated completion in Spring 2015¹. SAC members may send delegates or alternates to meetings. A total of two SAC meetings are planned.

7. SAC MEETINGS

Locations for the SAC meetings are to be determined. Proposed meeting topics are as follows:

- ◆ SAC Meeting 1:
 - Review of the planning process.
 - Presentation of the draft problem statement.
 - Review of draft alternative solutions.
 - Review of draft evaluation criteria for alternative solutions.
- ◆ SAC Meeting 2:
 - Presentation of natural/social/economic environment inventory.
 - Review of field work and investigations.
 - Presentation of evaluation process and results.
 - Review of preliminary preferred alternative.
 - Review of materials for PIC #1.

The first meeting is tentatively scheduled to be held in Fall 2014, followed by the second meeting likely in Spring 2015.

Other interested parties may, upon prior approval of the Region, be allowed to observe the SAC meetings; however, these parties will not be permitted to participate in the formal meeting.

¹ Fall 2015 if the project becomes a Schedule C.

8. GENERAL GUIDELINES FOR SAC

1. The SAC is an advisory group to the Region. It will not function as a:
 - ♦ Public hearing.
 - ♦ Steering committee.
 - ♦ Regulatory mechanism.
 - ♦ Complaint review committee.
 - ♦ Peer review panel.
2. The opinions of all SAC members will be valued and taken into consideration. As the SAC is not a decision-making body, the Region is not seeking a consensus on discussion topics. However, any time a consensus emerges during the discussions, the Region will make a special note of this.
3. The Region will attempt to incorporate SAC's advice wherever possible, as appropriate. Where the Region chooses a different course of action on an issue, the SAC will be provided with an explanation of the reasoning.
4. SAC meetings will be organized, conducted and reported on by the Class EA Lead.
5. Views and Opinions: SAC members are encouraged to express the views and policies of their host organizations.
6. Time frames: The SAC is expected to operate from Fall 2014 until the completion of the Class EA study, currently anticipated to be Spring 2015. This may be extended by mutual agreement.
7. Some Information is Not for Distribution: By and large, most of the information tabled by the Region and the regulatory agencies will be available for public distribution; however, there may be some information that members will be asked not to distribute because it is of a confidential or draft nature at a given point in time. SAC members will be asked not to share this information with anyone outside of their associated organization. Any comments on draft or confidential material should be issued to the Region only.

8. SAC members are encouraged to provide advice and comments to the project team. It should be noted that materials that are presented to the SAC members will also be made available to the general public and media at Public Information Forums to be held at the various phases of the Class EA study process. In the event a media enquiry is made to a SAC member regarding the project or Class EA study, SAC members are strongly encouraged to refer the media to the Region's Project Manager as noted below:

Marek Brączek, MMI, P.Eng.

Project Manager, Design & Construction
Water Services Division
Public Works, Halton Region
Tel: 905-825-6000 ext. 7128
Marek.Braczek@halton.ca

Although SAC meetings are not open to the general public, copies of all summaries and supporting documentation, including the Comments and Response summary, will be included as part of the EA study documentation.

9. MINUTES AND AGENDAS

Meeting agendas will be prepared by the Class EA project team and distributed to SAC members one week in advance of SAC meetings. Minutes of each meeting will be recorded by the project consultants and will be circulated to the SAC members for review. The SAC agendas and minutes will be submitted to the Ministry of Environment and Climate Change as part of the EA study documentation.

Jean Louis Gaudet

From: Jean Louis Gaudet
Sent: September-16-14 9:32 AM
To: 'enserv@hrca.on.ca'
Cc: 'Arun Jain' (Arun.Jain@exp.com)
Subject: SAC Invitation - Halton Region Class EA - Rerating of Oakville WPP and Possible Intake Extension
Attachments: Oakville WPP SAC invite package - Sep-15-2014 (CH_B Veale).pdf

Dear Ms. Veale,

Attached is an invitation to a Stakeholder Advisory Committee (SAC) for the Halton Region Class Environmental Assessment for rerating of the Oakville Water Purification Plant (WPP) from 109 to 130 ML/d and possible water intake extension. The invitation package includes the SAC terms of reference for your consideration. A hard copy is following by mail.

A member of the study project team member will be contacting you shortly to confirm your receipt of the letter and to confirm your participation.

Regards,

Jean-Louis Gaudet



Jean-Louis Gaudet

Project Coordinator
t: +1.905.793.9809 x 2344 | e: jeanlouis.gaudet@exp.com
1595 Clark Blvd.
Brampton, ON L6T 4V1
CANADA

exp.com | [legal disclaimer](#)

keep it green, read from the screen



September 15, 2014

Public Works
Water Services
1151 Bronte Road
Oakville, ON L6M 3L1

Barbara Veale
Manager, Planning Department
Conservation Halton
2596 Britannia Road West
Burlington, ON L7P 0G3

Dear Ms. Veale:

Re: Stakeholder Advisory Committee – Municipal Class Environmental Assessment for the Rerating of the Oakville Water Purification Plant from 109 to 130 ML/d and Possible Water Intake Extension, Ward 2, Town of Oakville, Our File: PR-2989

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As part of the Class EA process, the Region is forming a Stakeholder Advisory Committee (SAC) consisting of members from review agencies and the local and regional councillors. A list of proposed members is attached for your information. The Region invites you to be a member and contribute to providing guidance to the project team.

With this invitation in mind, please find enclosed the proposed terms of reference for the SAC for your information. It is anticipated that the SAC will meet twice during the Class EA process, likely once in Fall 2014 followed by another meeting in Spring 2015. Notice of the meeting, agenda, and any relevant materials will be distributed to the SAC members in advance of the meeting.

We look forward to having you as a member of the Stakeholder Advisory Committee. A member of our project team will be calling you in the near future to confirm if you have received this letter and to confirm your participation. If you have any questions, please contact the undersigned at (905) 825-6000 Ext. 7128 or Arun Jain, Manager Linear Infrastructure and Class EA Lead of Exp Services Inc. at (905) 793-9800 Ext. 2373 or at arun.jain@exp.com.

Thank you in advance for your consideration on this matter.

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Marek Braczek, MMI, P. Eng.,
Project Manager
Water Design & Construction

The Regional Municipality of Halton

NOTICE OF STUDY COMMENCEMENT

Rerating of the Oakville Water Purification Plant from 109 to 130 ML/d and Possible Intake Extension Town of Oakville

MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT STUDY

Background

In 2011, Halton Region completed the Sustainable Halton Water and Wastewater Master Plan (WWMP). The WWMP recommended that the existing capacity of the Oakville Water Purification Plant (WPP), located at 21 Kerr Street, be increased from 109 million litres per day (ML/d) to 130 ML/d to ensure that the growing demand for drinking water within the Region can be met.

The Region is seeking to achieve this capacity increase with minimal impact to the local community by avoiding large scale process changes and optimizing the plant within its existing footprint.

Problem Statement

In order to meet the growing demand for drinking water in Halton Region, the Region is initiating an Environmental Assessment (EA) Study that will assess, test and evaluate various plant components so Halton Region can obtain approval from the Ontario Ministry of the Environment to rerate the Oakville WPP to 130 ML/d. The study will not involve any construction at the Plant.

The study will also address issues faced by the WPP from occasional high turbidity (i.e. sediment) in the facility's water intake. After periods of heavy rainfall, the Oakville WPP experiences elevated levels of turbidity in the raw water it draws from Lake Ontario related to high volumes of sediment discharged into Lake Ontario through the mouth of Sixteen Mile Creek after rain events. At times, this results in the Oakville WPP being shut down temporarily representing a risk to the Region's long-term security of water supply.

The Process

The study is being conducted in accordance with Schedule B of the Municipal Class Environmental Assessment process (October 2000, amended 2007 and 2011), which is approved under the Ontario Environmental Assessment Act. In addition to obtaining approval for rerating of the plant; the study will also evaluate the problem of sediments coming from Sixteen Mile Creek and consider plant-based or intake modification-based



solutions to address the problem. The study will determine if future construction is required to modify processes inside the Plant or the intake pipe out in the lake.

Public Information Centres

Consultation with the public and review agencies is a key element of the Class EA process, and input will be sought throughout the study using various means including notices and Public Information Centres (PICs). Details regarding upcoming Public Information Centres will be advertised as the study progresses.

Contact Us

Please contact any of the following project team members if you wish to be added to the project mailing list or if you have any questions, comments about the study.

Marek Braczek, MMI, P. Eng.
Project Manager
Halton Region
1151 Bronte Road
Oakville, ON L6M 3L1
Tel: 905-825-6000 ext. 7128
Email: marek.braczek@halton.ca

Arun P. Jain, M.Eng., P.Eng.
Manager, Linear Infrastructure
and Class EA Lead
exp Services Inc.
1595 Clark Blvd.
Brampton, ON L6T 4V1
Tel: 905-793-9800 ext. 2373
Email: arun.jain@exp.com

This notice first issued on September 4, 2014



Oakville Water Purification Plant Rerating Class Environmental Assessment

Terms of Reference for Stakeholders Advisory Committee

1. INTRODUCTION

The Regional Municipality of Halton (Region) has commenced a Schedule B Municipal Class Environmental Assessment (Class EA) study for the rerating of the Oakville Water Purification Plan (WPP) from 109 million litres per day (ML/d) to 130 ML/d. The purpose of the rerating is to ensure that the growing demand for drinking water within the Region can be met. The Region is seeking to achieve this capacity increase by optimizing and potentially upgrading the current processes at the Oakville WPP.

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Subject: SAC Invitation - Halton Region Class EA - Rerating of Oakville WPP and Possible Intake Extension
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Good morning Ms. Piskorz,

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Project Coordinator
t: +1.905.793.9809 x 2344 | e: jeanlouis.gaudet@exp.com
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CANADA

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September 15, 2014

Public Works
Water Services
1151 Bronte Road
Oakville, ON L6M 3L1

Kasia Piskorz
Project Leader - Capital Projects-Engineering and Construction
Town of Oakville
1225 Trafalgar Road
Oakville, ON L6H 0H3

Dear Ms. Piskorz:

Re: Stakeholder Advisory Committee – Municipal Class Environmental Assessment for the Rerating of the Oakville Water Purification Plant from 109 to 130 ML/d and Possible Water Intake Extension, Ward 2, Town of Oakville, Our File: PR-2989

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Marek Braczek, MMI, P. Eng.,
Project Manager
Water Design & Construction

The Regional Municipality of Halton

Jean Louis Gaudet

From: Jean Louis Gaudet
Sent: September-16-14 9:35 AM
To: Steven.strong@ontario.ca
Cc: 'Arun Jain' (Arun.Jain@exp.com)
Subject: SAC Invitation - Halton Region Class EA - Rerating of Oakville WPP and Possible Intake Extension
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Jean-Louis Gaudet

Project Coordinator
t: +1.905.793.9809 x 2344 | e: jeanlouis.gaudet@exp.com
1595 Clark Blvd.
Brampton, ON L6T 4V1
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September 15, 2014

Public Works
Water Services
1151 Bronte Road
Oakville, ON L6M 3L1

Steven Strong
District Planner, Aurora District Office
Ministry of Natural Resources and Forestry
50 Bloomington Road West
Aurora, ON L4G 0L8

Dear Mr. Strong:

Re: Stakeholder Advisory Committee – Municipal Class Environmental Assessment for the Rerating of the Oakville Water Purification Plant from 109 to 130 ML/d and Possible Water Intake Extension, Ward 2, Town of Oakville, Our File: PR-2989

The Region of Halton is initiating a Class Environmental Assessment (Class EA) for the purpose of rerating the Oakville Water Purification Plant (WPP) from 109 million litres per day (ML/d) to 130 ML/d. The study will also address issues faced by the Oakville WPP from occasional high turbidity (i.e. sediment) in the facility's water intake following periods of heavy rainfall. A Notice of Commencement has been published on September 4, 2014 (please see attached copy for your reference).

As part of the Class EA process, the Region is forming a Stakeholder Advisory Committee (SAC) consisting of members from review agencies and the local and regional councillors. A list of proposed members is attached for your information. The Region invites you to be a member and contribute to providing guidance to the project team.

With this invitation in mind, please find enclosed the proposed terms of reference for the SAC for your information. It is anticipated that the SAC will meet twice during the Class EA process, likely once in Fall 2014 followed by another meeting in Spring 2015. Notice of the meeting, agenda, and any relevant materials will be distributed to the SAC members in advance of the meeting.

We look forward to having you as a member of the Stakeholder Advisory Committee. A member of our project team will be calling you in the near future to confirm if you have received this letter and to confirm your participation. If you have any questions, please contact the undersigned at (905) 825-6000 Ext. 7128 or Arun Jain, Manager Linear Infrastructure and Class EA Lead of Exp Services Inc. at (905) 793-9800 Ext. 2373 or at arun.jain@exp.com.

Thank you in advance for your consideration on this matter.

Sincerely,

A handwritten signature in black ink, appearing to read "Marek Braczek", with a stylized flourish at the end.

Marek Braczek, MMI, P. Eng.,
Project Manager
Water Design & Construction

The Regional Municipality of Halton

Jean Louis Gaudet

From: Jean Louis Gaudet
Sent: September-16-14 9:33 AM
To: 'tina.dufresne@ontario.ca'
Cc: 'Arun Jain' (Arun.Jain@exp.com)
Subject: SAC Invitation - Halton Region Class EA - Rerating of Oakville WPP and Possible Intake Extension
Attachments: Oakville WPP SAC invite package - Sep-15-2014 (MOECC_T Dufresne).pdf

Good morning Ms. Dufresene,

Attached is an invitation to a Stakeholder Advisory Committee (SAC) for the Halton Region Class Environmental Assessment for rerating of the Oakville Water Purification Plant (WPP) from 109 to 130 ML/d and possible water intake extension. The invitation package includes the SAC terms of reference for your consideration. A hard copy is following by mail.

A member of the study project team member will be contacting you shortly to confirm your receipt of the letter and to confirm your participation.

Regards,

Jean-Louis Gaudet



Jean-Louis Gaudet

Project Coordinator
t: +1.905.793.9809 x 2344 | e: jeanlouis.gaudet@exp.com
1595 Clark Blvd.
Brampton, ON L6T 4V1
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September 15, 2014

Public Works
Water Services
1151 Bronte Road
Oakville, ON L6M 3L1

Tina Dufresne
District Manager, Central Region District
Ministry of Environment and Climate Change
4145 North Service Road, Suite 300
Burlington ON L7L 6A3

Dear Ms. Dufresne:

Re: Stakeholder Advisory Committee – Municipal Class Environmental Assessment for the Rerating of the Oakville Water Purification Plant from 109 to 130 ML/d and Possible Water Intake Extension, Ward 2, Town of Oakville, Our File: PR-2989

The Region of Halton is initiating a Class Environmental Assessment (Class EA) for the purpose of rerating the Oakville Water Purification Plant (WPP) from 109 million litres per day (ML/d) to 130 ML/d. The study will also address issues faced by the Oakville WPP from occasional high turbidity (i.e. sediment) in the facility's water intake following periods of heavy rainfall. A Notice of Commencement has been published on September 4, 2014 (please see attached copy for your reference).

As part of the Class EA process, the Region is forming a Stakeholder Advisory Committee (SAC) consisting of members from review agencies and the local and regional councillors. A list of proposed members is attached for your information. The Region invites you to be a member and contribute to providing guidance to the project team.

With this invitation in mind, please find enclosed the proposed terms of reference for the SAC for your information. It is anticipated that the SAC will meet twice during the Class EA process, likely once in Fall 2014 followed by another meeting in Spring 2015. Notice of the meeting, agenda, and any relevant materials will be distributed to the SAC members in advance of the meeting.

We look forward to having you as a member of the Stakeholder Advisory Committee. A member of our project team will be calling you in the near future to confirm if you have received this letter and to confirm your participation. If you have any questions, please contact the undersigned at (905) 825-6000 Ext. 7128 or Arun Jain, Manager Linear Infrastructure and Class EA Lead of Exp Services Inc. at (905) 793-9800 Ext. 2373 or at arun.jain@exp.com.

Thank you in advance for your consideration on this matter.

Sincerely,

A handwritten signature in black ink, appearing to read "Marek Braczek", with a stylized flourish at the end.

Marek Braczek, MMI, P. Eng.,
Project Manager
Water Design & Construction

The Regional Municipality of Halton

Jean Louis Gaudet

From: Jean Louis Gaudet
Sent: October-08-14 3:25 PM
To: 'marc.desjardins@ontario.ca'
Cc: 'Arun Jain' (Arun.Jain@exp.com)
Subject: FW: SAC Invitation - Halton Region Class EA - Rerating of Oakville WPP and Possible Intake Extension
Attachments: Halton Water Plant EA_notice.pdf

Hi Marc,

Jackie Burkart from the Aurora MNRF office suggested that we advise the Lake Ontario Management Unit regarding Halton Region's Class EA for the re-rating of Oakville Water Purification Plant (WPP) (see message thread below). She advised you may be the appropriate contact for the Unit.

The purpose of the Class EA is to assess, test and evaluate various Oakville Water Purification Plant components so Halton Region can obtain approval from the Ontario Ministry of the Environment to re-rate the plant production rate from 109 mega liters per day (ML/d) to 130 ML/d.

The study will also address issues faced by the plant resulting from occasional high turbidity (due to sediment from Sixteen Mile Creek during heavy rainfalls) at the water intake pipe in the lake. The EA will examine various alternative solutions to this issue, which will include plant-based process fix and/or modifications to the existing intake, such as an extension further (approx. 2 to 3 km) into Lake Ontario.

For your information, I have attached a copy of the notice of commencement for this project.

Can you please advise whether your office wishes to be kept involved in this project and the best way for us to consult with it?

If you have any questions, please do not hesitate to contact me directly (1.905.793.9809 x2344) or my colleague Arun Jain, who is leading the Class EA process (905 793-9800 x 2373; arun.jain@exp.com).

Thank you,

Jean-Louis

Jean-Louis Gaudet | exp

Project Coordinator
t: +1.905.793.9809 x2344 | e: jeanlouis.gaudet@exp.com
1595 Clark Boulevard
Brampton, ON L6T 4V1
Canada

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From: Arun Jain
Sent: Wednesday, October 08, 2014 2:00 PM
To: Jean Louis Gaudet
Subject: FW: SAC Invitation - Halton Region Class EA - Rerating of Oakville WPP and Possible Intake Extension



Arun P. Jain, P.Eng., M.Eng.

Practice Lead - Linear Infrastructure, Central Ontario

exp Services Inc.

t: +1.905.793.9800 x2373 | m: +1.647.248.9104 | e: arun.jain@exp.com

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Brampton, ON L6T 4V1

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From: Burkart, Jackie (MNR) [<mailto:Jackie.Burkart@ontario.ca>]

Sent: Wednesday, October 08, 2014 1:58 PM

To: Arun Jain

Subject: RE: SAC Invitation - Halton Region Class EA - Rerating of Oakville WPP and Possible Intake Extension

Try Marc Desjardins. His name was given to me but his telephone # looks like he's in the eastern part of the province.

From: Arun Jain [<mailto:Arun.Jain@exp.com>]

Sent: October 8, 2014 1:49 PM

To: Burkart, Jackie (MNR)

Cc: Hislop, Chris (MNR); Almond, John (MNR); Berube, Margaret (MNR); ESA Aurora (MNR); Jean Louis Gaudet

Subject: RE: SAC Invitation - Halton Region Class EA - Rerating of Oakville WPP and Possible Intake Extension

Jackie,

Thanks!

Would you have the name for LOMU contact as well ?

Jean Louis, our consultation expert will be in touch with all concerned.

Regards,

Arun



Arun P. Jain, P.Eng., M.Eng.

Practice Lead - Linear Infrastructure, Central Ontario

exp Services Inc.

t: +1.905.793.9800 x2373 | m: +1.647.248.9104 | e: arun.jain@exp.com
1595 Clark Blvd.
Brampton, ON L6T 4V1
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From: Burkart, Jackie (MNR) [<mailto:Jackie.Burkart@ontario.ca>]

Sent: Wednesday, October 08, 2014 1:45 PM

To: Arun Jain

Cc: Hislop, Chris (MNR); Almond, John (MNR); Berube, Margaret (MNR); ESA Aurora (MNR); Jean Louis Gaudet

Subject: RE: SAC Invitation - Halton Region Class EA - Rerating of Oakville WPP and Possible Intake Extension

Yes. Please contact Chris Hislop (lands) and the Lake Ontario Management Unit (LOMU). The LOMU is familiar with spawning and nursery locations along the shoreline. Their input will be required. Please contact them directly. Chris has been copied on this email.

Jackie

From: Arun Jain [<mailto:Arun.Jain@exp.com>]

Sent: October 8, 2014 1:34 PM

To: Burkart, Jackie (MNR)

Cc: Hislop, Chris (MNR); Almond, John (MNR); Berube, Margaret (MNR); ESA Aurora (MNR); Jean Louis Gaudet

Subject: RE: SAC Invitation - Halton Region Class EA - Rerating of Oakville WPP and Possible Intake Extension

Jackie,

Would you then recommend that we include someone else from MNR?

Also, would you like us to contact them directly or should we wait for further direction from you.

Regards,



Arun P. Jain, P.Eng., M.Eng.

Practice Lead - Linear Infrastructure, Central Ontario

exp Services Inc.

t: +1.905.793.9800 x2373 | m: +1.647.248.9104 | e: arun.jain@exp.com

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From: Burkart, Jackie (MNR) [<mailto:Jackie.Burkart@ontario.ca>]

Sent: Wednesday, October 08, 2014 1:22 PM

To: Arun Jain

Cc: Hislop, Chris (MNR); Almond, John (MNR); Berube, Margaret (MNR); ESA Aurora (MNR)
Subject: RE: SAC Invitation - Halton Region Class EA - Rerating of Oakville WPP and Possible Intake Extension

Hi Arun,

Yes - a pipe extension will likely involve our lands folk. I want to make sure we engage the appropriate staff, if and where required.

Jackie

From: Arun Jain [<mailto:Arun.Jain@exp.com>]
Sent: October 8, 2014 12:58 PM
To: Burkart, Jackie (MNR); Jean Louis Gaudet
Cc: Berube, Margaret (MNR)
Subject: RE: SAC Invitation - Halton Region Class EA - Rerating of Oakville WPP and Possible Intake Extension

Hi Jackie,

Just to add to what Jean Louis said, we do have the alternative solution of putting a pipe in the lake and it will be evaluated as part of current Schedule B EA. We therefore feel that your involvement will be important.

In terms of high level detail, the alternative solution will involve a pipe likely 1 metre or larger in diameter and could extend from shore to 2-3 km in to lake depending on the extent of sediment plume. The Mike 3 modelling is currently underway to delineate extent of the plume which will define how far the pipe need to go in to lake to avoid sediments.

Regards,

Arun



Arun P. Jain, P.Eng., M.Eng.
Practice Lead - Linear Infrastructure, Central Ontario
exp Services Inc.
t: +1.905.793.9800 x2373 | m: +1.647.248.9104 | e: arun.jain@exp.com
1595 Clark Blvd.
Brampton, ON L6T 4V1
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From: Burkart, Jackie (MNR) [<mailto:Jackie.Burkart@ontario.ca>]
Sent: Wednesday, October 08, 2014 11:02 AM
To: Jean Louis Gaudet
Cc: Berube, Margaret (MNR); Arun Jain
Subject: RE: SAC Invitation - Halton Region Class EA - Rerating of Oakville WPP and Possible Intake Extension

OK – that is sort of what I thought. At this point MNRF need not be involved. IF it becomes a Schedule C we may get involved at that point.

From: Jean Louis Gaudet [<mailto:jeanlouis.gaudet@exp.com>]
Sent: October 8, 2014 11:00 AM
To: Burkart, Jackie (MNR)
Cc: Berube, Margaret (MNR); Arun Jain
Subject: RE: SAC Invitation - Halton Region Class EA - Rerating of Oakville WPP and Possible Intake Extension

Hi Jackie,

There will not be any new land construction/buildings with this Class EA. The re-rating portion of this EA will be to review and test plant modifications to verify the capacity increase from 109 to 130 ML/d.

The EA will also address the issue of occasional high turbidity at the raw intake and look at various alternative solutions, including either a plant-based process fix and/or modifications to the existing intake, such as an extension. If the preferred alternative is to modify the existing intake, then the Class EA would be upgraded to a Schedule C. But at this stage, we do not know what the preferred alternative will be.

I hope this clarifies.

Regards,

Jean-Louis

Jean-Louis Gaudet | exp

Project Coordinator
t: +1.905.793.9809 x2344 | e: jeanlouis.gaudet@exp.com
1595 Clark Boulevard
Brampton, ON L6T 4V1
Canada

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From: Burkart, Jackie (MNR) [<mailto:Jackie.Burkart@ontario.ca>]
Sent: Wednesday, October 08, 2014 10:50 AM
To: Jean Louis Gaudet
Cc: Berube, Margaret (MNR)
Subject: RE: SAC Invitation - Halton Region Class EA - Rerating of Oakville WPP and Possible Intake Extension

Jean-Louis,

It may be a little early for you to know this but.... do you anticipate any land construction with this EA – i.e., new buildings? Do you anticipate any new pipes going out into the Lake? Depending upon the anticipated nature of the proposed works, the involvement of MNRF may be very limited.

Jackie Burkart

District Planner
Ministry of Natural Resources | 50 Bloomington Road, Aurora, ON L4G 0L8 | Phone: 905-713-7368 | Fax: 905-713-7360 | Email:
jackie.burkart@ontario.ca |

From: Jean Louis Gaudet [<mailto:jeanlouis.gaudet@exp.com>]
Sent: October 8, 2014 10:36 AM

To: Burkart, Jackie (MNR)

Subject: FW: SAC Invitation - Halton Region Class EA - Rerating of Oakville WPP and Possible Intake Extension

Hi Jackie,

On Sept. 16, we had sent Steven Strong an invitation for MNRF to participate on a Stakeholder Advisory Committee (SAC) for the Halton Region Class EA for the Oakville Water Purification Plant (WPP) rerating (see attached).

We wanted to follow-up with you to see if he had forwarded the invitation to you (as the MNRF contact for this project) and to confirm whether you or another designate from MNRF would be participating on the SAC.

We anticipate that the first meeting would be mid-November.

Can you please advise whether MNRF will be participating? Please feel free to call me if you have any questions - 905.793.9809 x2344.

Regards,

Jean-Louis

Jean-Louis Gaudet | exp

Project Coordinator

t: +1.905.793.9809 x2344 | e: jeanlouis.gaudet@exp.com

1595 Clark Boulevard

Brampton, ON L6T 4V1

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From: Jean Louis Gaudet

Sent: Tuesday, September 16, 2014 9:35 AM

To: Steven.strong@ontario.ca

Cc: 'Arun Jain' (Arun.Jain@exp.com)

Subject: SAC Invitation - Halton Region Class EA - Rerating of Oakville WPP and Possible Intake Extension

Good morning Mr. Strong,

Attached is an invitation to a Stakeholder Advisory Committee (SAC) for the Halton Region Class Environmental Assessment for rerating of the Oakville Water Purification Plant (WPP) from 109 to 130 ML/d and possible water intake extension. The invitation package includes the SAC terms of reference for your consideration. A hard copy is following by mail.

A member of the study project team member will be contacting you shortly to confirm your receipt of the letter and to confirm your participation.

Regards,

Jean-Louis Gaudet



Jean-Louis Gaudet

Project Coordinator

t: +1.905.793.9809 x 2344 | e: jeanlouis.gaudet@exp.com

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September 15, 2014

Public Works
Water Services
1151 Bronte Road
Oakville, ON L6M 3L1

Paul Lashbrook
Impact Assessment Biologist
Fisheries and Oceans Canada
3027 Harvester Road, Unit 304
Burlington, ON L7R 4K3

Dear Mr. Lashbrook:

Re: Stakeholder Advisory Committee – Municipal Class Environmental Assessment for the Rerating of the Oakville Water Purification Plant from 109 to 130 ML/d and Possible Water Intake Extension, Ward 2, Town of Oakville, Our File: PR-2989

The Region of Halton is initiating a Class Environmental Assessment (Class EA) for the purpose of rerating the Oakville Water Purification Plant (WPP) from 109 million litres per day (ML/d) to 130 ML/d. The study will also address issues faced by the Oakville WPP from occasional high turbidity (i.e. sediment) in the facility's water intake following periods of heavy rainfall. A Notice of Commencement has been published on September 4, 2014 (please see attached copy for your reference).

As part of the Class EA process, the Region is forming a Stakeholder Advisory Committee (SAC) consisting of members from review agencies and the local and regional councillors. A list of proposed members is attached for your information. The Region invites you to be a member and contribute to providing guidance to the project team.

With this invitation in mind, please find enclosed the proposed terms of reference for the SAC for your information. It is anticipated that the SAC will meet twice during the Class EA process, likely once in Fall 2014 followed by another meeting in Spring 2015. Notice of the meeting, agenda, and any relevant materials will be distributed to the SAC members in advance of the meeting.

We look forward to having you as a member of the Stakeholder Advisory Committee. A member of our project team will be calling you in the near future to confirm if you have received this letter and to confirm your participation. If you have any questions, please contact the undersigned at (905) 825-6000 Ext. 7128 or Arun Jain, Manager Linear Infrastructure and Class EA Lead of Exp Services Inc. at (905) 793-9800 Ext. 2373 or at arun.jain@exp.com.

Thank you in advance for your consideration on this matter.

Sincerely,

A handwritten signature in black ink, appearing to read "Marek Braczek", with a stylized flourish at the end.

Marek Braczek, MMI, P. Eng.,
Project Manager
Water Design & Construction

The Regional Municipality of Halton

Jean Louis Gaudet

From: Graham, Amanda (ENE) <Amanda.Graham@ontario.ca>
Sent: September-17-14 3:46 PM
To: Jean Louis Gaudet
Subject: RE: SAC Invitation - Halton Region Class EA - Rerating of Oakville WPP and Possible Intake Extension

Hello,

Thank you for providing the ministry with the opportunity to attend the Stakeholder Advisory Committee meetings for the Oakville Water Purification Plant (WPP) Class EA. While we wish to be kept informed of any progress made, we will not be attending the SAC meetings.

Thank you very much,

Amanda Graham
Environmental Resource Planner and
Environmental Assessment Coordinator
Central Region, Technical Support
Ministry of the Environment and Climate Change
Tel: 416-326-5745

From: Jean Louis Gaudet [<mailto:jeanlouis.gaudet@exp.com>]
Sent: September-16-14 9:33 AM
To: Dufresne, Tina (ENE)
Cc: Arun Jain
Subject: SAC Invitation - Halton Region Class EA - Rerating of Oakville WPP and Possible Intake Extension

Good morning Ms. Dufresene,

Attached is an invitation to a Stakeholder Advisory Committee (SAC) for the Halton Region Class Environmental Assessment for rerating of the Oakville Water Purification Plant (WPP) from 109 to 130 ML/d and possible water intake extension. The invitation package includes the SAC terms of reference for your consideration. A hard copy is following by mail.

A member of the study project team member will be contacting you shortly to confirm your receipt of the letter and to confirm your participation.

Regards,

Jean-Louis Gaudet



Jean-Louis Gaudet

Project Coordinator

t: +1.905.793.9809 x 2344 | e: jeanlouis.gaudet@exp.com

1595 Clark Blvd.

Brampton, ON L6T 4V1

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Jean Louis Gaudet

From: Paul Bond <pbond@hrca.on.ca>
Sent: October-14-14 12:13 PM
To: Jean Louis Gaudet
Subject: RE: SAC Invitation - Halton Region Class EA - Rerating of Oakville WPP and Possible Intake Extension

Thank-you Jean-Louis.

Paul.

Paul Bond
Environmental Planner
Conservation Halton
t: 905-336-1158 ext. 2257 | f: 905-336-6684
2596 Britannia Road West
Burlington ON L7P 0G3
e-mail: pbond@hrca.on.ca
www.conservationhalton.ca

From: Jean Louis Gaudet [mailto:jeanlouis.gaudet@exp.com]
Sent: Thursday, October 09, 2014 11:21 AM
To: Paul Bond
Cc: Envserv; Arun Jain
Subject: SAC Invitation - Halton Region Class EA - Rerating of Oakville WPP and Possible Intake Extension

Good morning, Mr. Bond,

As per my discussion with Ms. Veale this morning, I am forwarding you an invitation for Conservation Halton to participate on a Stakeholder Advisory Committee (SAC) for Halton Region's Oakville Water Purification Plant (WPP) rerating Class EA. The invitation package includes the SAC terms of reference for your consideration.

We anticipate the first SAC meeting will take place mid-November.

If you have any questions, please do not hesitate to contact me directly (905 793-9809 x2344) or my colleague Arun Jain, who is leading the Class EA process (905 793-9809 x 2373; arun.jain@exp.com).

Regards,

Jean-Louis

Jean-Louis Gaudet | exp
Project Coordinator
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Brampton, ON L6T 4V1
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From: Jean Louis Gaudet

Sent: Tuesday, September 16, 2014 9:32 AM

To: 'enserv@hrca.on.ca'

Cc: 'Arun Jain' (Arun.Jain@exp.com)

Subject: SAC Invitation - Halton Region Class EA - Rerating of Oakville WPP and Possible Intake Extension

Dear Ms. Veale,

Attached is an invitation to a Stakeholder Advisory Committee (SAC) for the Halton Region Class Environmental Assessment for rerating of the Oakville Water Purification Plant (WPP) from 109 to 130 ML/d and possible water intake extension. The invitation package includes the SAC terms of reference for your consideration. A hard copy is following by mail.

A member of the study project team member will be contacting you shortly to confirm your receipt of the letter and to confirm your participation.

Regards,

Jean-Louis Gaudet



Jean-Louis Gaudet

Project Coordinator

t: +1.905.793.9809 x 2344 | e: jeanlouis.gaudet@exp.com

1595 Clark Blvd.

Brampton, ON L6T 4V1

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Jean Louis Gaudet

From: Kochmar, Teodor <Teodor.Kochmar@halton.ca>
Sent: April-22-15 2:48 PM
To: Jean Louis Gaudet
Cc: Arun Jain; Newton, Jesse GHD (Jesse.Newton@ghd.com); Hunter, Chris (chunter@croworld.com)
Subject: FW: FYI - Letter Attached - Notice of Stakeholder Advisory Committee Meeting #1 - Municipal Class Environmental Assessment - Rerating of the Oakville WPP, Town of Oakville, PR-2989
Attachments: Oakville WPP - Class EA - Duddeck.pdf

FYI.

Regards,

Teodor Kochmar, P.Eng., PMP
Halton Region
(905) 825-6000 x 7637

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

From: Kennedy, Lily
Sent: Wednesday, April 22, 2015 2:45 PM
To: Duddeck, Cathy
Cc: Kochmar, Teodor; Carr, Gary; Burton, Rob; Adams, Tom; Damoff, Pam; MacCaskill, Jane; Harnum, Jim; 'dcozzi@oakville.ca' (dcozzi@oakville.ca); Andrews, Dave; Ohashi, David; !Access Halton
Subject: FYI - Letter Attached - Notice of Stakeholder Advisory Committee Meeting #1 - Municipal Class Environmental Assessment - Rerating of the Oakville WPP, Town of Oakville, PR-2989

Hello Councillor Duddeck,

Attached for your information is a letter regarding a notice of a Stakeholder Advisory Committee Meeting #1 - Municipal Class Environmental Assessment for the rerating of the Oakville Water Purification Plant in Ward 2, Town of Oakville.

Teodar Kochmar, Project Manager, is the Region's representative for this project and he can be reached at 905-825-6000 or toll free 1-866-442-5866, extension 7637 or via email at Teodor.Kochmar@halton.ca should you have any questions or concerns.

Thank you,

Lily Kennedy
Administrative Assistant
Water & Wastewater Treatment
Public Works Department
Telephone: 905-825-6000 or
Toll Free: 1-866-442-5866
Extension: 7926
Fax: 905-825-0267



April 15, 2015

Public Works
Water Services
1151 Bronte Road
Oakville, ON L6M 3L1

Cathy Duddeck
Regional Councillor, Ward 2
Halton Region
137 Wolfdale Ave.
Oakville, ON L6L 4R9

By e-mail: cduddeck@oakville.ca

Dear Councillor Duddeck:

Re: Stakeholder Advisory Committee Meeting #1 – Municipal Class Environmental Assessment for the Rerating of the Oakville Water Purification Plant (Our File: PR-2989)

The Region of Halton is undertaking a Class Environmental Assessment (Class EA) for the purpose of rerating the Oakville Water Purification Plant (WPP) from 109 million litres per day (ML/d) to 130 ML/d. The study will also address issues faced by the Oakville WPP from occasional high turbidity (i.e. sediment) in the facility's water intake following periods of heavy rainfall.

In September 2014, you were invited to participate in the project's Stakeholder Advisory Committee (SAC). The first meeting of the SAC is scheduled for **Tuesday, May 12 from 9:30 am to noon**. The meeting will be held at the Halton Region offices at **1075 North Service Rd. West, Unit 27, Oakville (room to be determined)**.

The purpose of SAC Meeting #1 will be to introduce the project, provide an update on activities completed to date or in progress, and to review the alternative solutions and evaluation criteria for this Class EA. An agenda for the meeting is attached.

We look forward to your attendance at the SAC Meeting #1. Please RSVP your attendance by **April 22, 2015** to Jean-Louis Gaudet at Jeanlouis.gaudet@exp.com. If you have any questions, please contact the undersigned at (905) 825-6000 Ext. 7637 or Arun Jain, Manager Linear Infrastructure and Class EA Lead of Exp Services Inc. at (905) 793-9800 Ext. 2373 or at arun.jain@exp.com.

Sincerely,

Teodor Kochmar, P.Eng., PMP
Project Manager
Plant Capital & Engineering

The Regional Municipality of Halton



Region of Halton
Oakville Water Purification Plant Rerating Class EA
Stakeholders Advisory Committee

Meeting Agenda

Date:	Tuesday, May 12, 2015 - 9:30 am to noon		
Project Name:	Oakville WPP Rerating Class EA	Project #	BRM-605015
Subject:	Stakeholders Advisory Committee Meeting #1		
Participants:	Councillor Cathy Duddeck, Halton Region (CD) Councillor Pam Damoff, Town of Oakville (PD) Kasia Piskorz, Town of Oakville (KP) Paul Bond, Conservation Halton (PB) Teodor Kochmar, Halton Region (TK) Chris Hunter, GHD (CH) Arun Jain, exp (AJ) Mudassar Muhammad, Hatch Mott (MM)		
Location:	Halton Region offices 1075 North Service Rd. West Unit 27 Oakville (room to be determined)	Prepared By:	JL Gaudet / Arun Jain
Distribution:	All participants		

- | | |
|-------------------------------------|---------------------|
| 1. Overview of the Class EA Project | 9:30 am – 9:40 am |
| 2. Review of Planning Process | 9:40 am – 9:50 am |
| 3. Proposed Alternative Solutions | 9:50 am – 10:45 am |
| <i>break</i> | |
| 4. Proposed Evaluation Criteria | 11:00 am – 11:45 am |
| 5. Next Steps | 11:45 am – noon |

Jean Louis Gaudet

From: Kochmar, Teodor <Teodor.Kochmar@halton.ca>
Sent: April-22-15 2:54 PM
To: Jean Louis Gaudet
Cc: Arun Jain; Hunter, Chris (chunter@croworld.com)
Subject: FW: FYI - Letter Attached - Notice of Stakeholder Advisory Committee Meeting #1 - Municipal Class Environmental Assessment - Rerating of the Oakville WPP, Town of Oakville, PR-2989
Attachments: Oakville WPP - Class EA - Bond.PDF

FYI.

Regards,

Teodor Kochmar, P.Eng., PMP
Halton Region
(905) 825-6000 x 7637

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

From: Kennedy, Lily
Sent: Wednesday, April 22, 2015 2:53 PM
To: 'pbond@hrca.on.ca'
Cc: Kochmar, Teodor
Subject: FYI - Letter Attached - Notice of Stakeholder Advisory Committee Meeting #1 - Municipal Class Environmental Assessment - Rerating of the Oakville WPP, Town of Oakville, PR-2989

Hello Mr. Bond,

Attached for your information is a letter regarding a notice of a Stakeholder Advisory Committee Meeting #1 - Municipal Class Environmental Assessment for the rerating of the Oakville Water Purification Plant in Ward 2, Town of Oakville.

Teodar Kochmar, Project Manager, is the Region's representative for this project and he can be reached at 905-825-6000 or toll free 1-866-442-5866, extension 7637 or via email at Teodor.Kochmar@halton.ca should you have any questions or concerns.

Thank you,

Lily Kennedy
Administrative Assistant
Water & Wastewater Treatment
Public Works Department
Telephone: 905-825-6000 or
Toll Free: 1-866-442-5866
Extension: 7926
Fax: 905-825-0267



April 15, 2015

Public Works
Water Services
1151 Bronte Road
Oakville, ON L6M 3L1

Paul Bond
Environmental Planner
Conservation Halton
2596 Britannia Road West
Burlington, ON L7P 0G3

By e-mail: pbond@hrca.on.ca

Dear Mr. Bond:

Re: Stakeholder Advisory Committee Meeting #1 – Municipal Class Environmental Assessment for the Rerating of the Oakville Water Purification Plant (Our File: PR-2989)

The Region of Halton is undertaking a Class Environmental Assessment (Class EA) for the purpose of rerating the Oakville Water Purification Plant (WPP) from 109 million litres per day (ML/d) to 130 ML/d. The study will also address issues faced by the Oakville WPP from occasional high turbidity (i.e. sediment) in the facility's water intake following periods of heavy rainfall.

In September 2014, you were invited to participate in the project's Stakeholder Advisory Committee (SAC). The first meeting of the SAC is scheduled for **Tuesday, May 12 from 9:30 am to noon**. The meeting will be held at the Halton Region offices at **1075 North Service Rd. West, Unit 27, Oakville (room to be determined)**.

The purpose of SAC Meeting #1 will be to introduce the project, provide an update on activities completed to date or in progress, and to review the alternative solutions and evaluation criteria for this Class EA. An agenda for the meeting is attached.

We look forward to your attendance at the SAC Meeting #1. Please RSVP your attendance by **April 22, 2015** to Jean-Louis Gaudet at Jeanlouis.gaudet@exp.com. If you have any questions, please contact the undersigned at (905) 825-6000 Ext. 7637 or Arun Jain, Manager Linear Infrastructure and Class EA Lead of Exp Services Inc. at (905) 793-9800 Ext. 2373 or at arun.jain@exp.com.

Sincerely,

Teodor Kochmar, P.Eng., PMP
Project Manager
Plant Capital & Engineering

The Regional Municipality of Halton

Jean Louis Gaudet

From: Kochmar, Teodor <Teodor.Kochmar@halton.ca>
Sent: April-22-15 2:54 PM
To: Jean Louis Gaudet
Cc: Arun Jain; Hunter, Chris (chunter@croworld.com)
Subject: FW: FYI - Letter Attached - Notice of Stakeholder Advisory Committee Meeting #1 - Municipal Class Environmental Assessment - Rerating of the Oakville WPP, Town of Oakville, PR-2989
Attachments: Oakville WPP - Class EA - Piskorz.PDF

FYI.

Regards,

Teodor Kochmar, P.Eng., PMP
Halton Region
(905) 825-6000 x 7637

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

From: Kennedy, Lily
Sent: Wednesday, April 22, 2015 2:53 PM
To: 'kasia.piskorz@oakville.ca'
Cc: Kochmar, Teodor
Subject: FYI - Letter Attached - Notice of Stakeholder Advisory Committee Meeting #1 - Municipal Class Environmental Assessment - Rerating of the Oakville WPP, Town of Oakville, PR-2989

Hello Ms. Piskorz,

Attached for your information is a letter regarding a notice of a Stakeholder Advisory Committee Meeting #1 - Municipal Class Environmental Assessment for the rerating of the Oakville Water Purification Plant in Ward 2, Town of Oakville.

Teodar Kochmar, Project Manager, is the Region's representative for this project and he can be reached at 905-825-6000 or toll free 1-866-442-5866, extension 7637 or via email at Teodor.Kochmar@halton.ca should you have any questions or concerns.

Thank you,

Lily Kennedy
Administrative Assistant
Water & Wastewater Treatment
Public Works Department
Telephone: 905-825-6000 or
Toll Free: 1-866-442-5866
Extension: 7926
Fax: 905-825-0267



April 15, 2015

Public Works
Water Services
1151 Bronte Road
Oakville, ON L6M 3L1

Kasia Piskorz
Project Leader
Capital Projects - Engineering and Construction
Town of Oakville
1225 Trafalgar Road
Oakville, ON L6H 0H3

By e-mail: kasia.piskorz@oakville.ca

Dear Ms. Piskorz:

Re: Stakeholder Advisory Committee Meeting #1 – Municipal Class Environmental Assessment for the Rerating of the Oakville Water Purification Plant (Our File: PR-2989)

The Region of Halton is undertaking a Class Environmental Assessment (Class EA) for the purpose of rerating the Oakville Water Purification Plant (WPP) from 109 million litres per day (ML/d) to 130 ML/d. The study will also address issues faced by the Oakville WPP from occasional high turbidity (i.e. sediment) in the facility's water intake following periods of heavy rainfall.

In September 2014, you were invited to participate in the project's Stakeholder Advisory Committee (SAC). The first meeting of the SAC is scheduled for **Tuesday, May 12 from 9:30 am to noon**. The meeting will be held at the Halton Region offices at **1075 North Service Rd. West, Unit 27, Oakville (room to be determined)**.

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Sincerely,

Teodor Kochmar, P.Eng., PMP
Project Manager
Plant Capital & Engineering

The Regional Municipality of Halton

Jean Louis Gaudet

From: Kochmar, Teodor <Teodor.Kochmar@halton.ca>
Sent: April-22-15 2:49 PM
To: Jean Louis Gaudet
Cc: Arun Jain; Hunter, Chris (chunter@croworld.com); Newton, Jesse GHD (Jesse.Newton@ghd.com)
Subject: FW: FYI - Letter Attached - Notice of Stakeholder Advisory Committee Meeting #1 - Municipal Class Environmental Assessment - Rerating of the Oakville WPP, Town of Oakville, PR-2989
Attachments: Oakville WPP - Class EA - Damoff.pdf

FYI.

Regards,

Teodor Kochmar, P.Eng., PMP
Halton Region
(905) 825-6000 x 7637

From: Kennedy, Lily
Sent: Wednesday, April 22, 2015 2:46 PM
To: Damoff, Pam
Cc: Kochmar, Teodor; Carr, Gary; Adams, Tom; Duddeck, Cathy; MacCaskill, Jane; Harnum, Jim; 'dcozzi@oakville.ca' (dcozzi@oakville.ca); Andrews, Dave; Ohashi, David; !Access Halton; Burton, Rob
Subject: FYI - Letter Attached - Notice of Stakeholder Advisory Committee Meeting #1 - Municipal Class Environmental Assessment - Rerating of the Oakville WPP, Town of Oakville, PR-2989

Hello Councillor Damoff,

Attached for your information is a letter regarding a notice of a Stakeholder Advisory Committee Meeting #1 - Municipal Class Environmental Assessment for the rerating of the Oakville Water Purification Plant in Ward 2, Town of Oakville.

Teodar Kochmar, Project Manager, is the Region's representative for this project and he can be reached at 905-825-6000 or toll free 1-866-442-5866, extension 7637 or via email at Teodor.Kochmar@halton.ca should you have any questions or concerns.

Thank you,

Lily Kennedy
Administrative Assistant
Water & Wastewater Treatment
Public Works Department
Telephone: 905-825-6000 or
Toll Free: 1-866-442-5866
Extension: 7926
Fax: 905-825-0267



April 15, 2015

Public Works
Water Services
1151 Bronte Road
Oakville, ON L6M 3L1

Pam Damoff
Regional Councillor, Ward 2
Town of Oakville
1226 Trafalgar Road
Oakville, ON L6H 0H4

By e-mail: pdamoff@oakville.ca

Dear Councillor Damoff:

Re: Stakeholder Advisory Committee Meeting #1 – Municipal Class Environmental Assessment for the Rerating of the Oakville Water Purification Plant (Our File: PR-2989)

The Region of Halton is undertaking a Class Environmental Assessment (Class EA) for the purpose of rerating the Oakville Water Purification Plant (WPP) from 109 million litres per day (ML/d) to 130 ML/d. The study will also address issues faced by the Oakville WPP from occasional high turbidity (i.e. sediment) in the facility's water intake following periods of heavy rainfall.

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We look forward to your attendance at the SAC Meeting #1. Please RSVP your attendance by **April 22, 2015** to Jean-Louis Gaudet at Jeanlouis.gaudet@exp.com. If you have any questions, please contact the undersigned at (905) 825-6000 Ext. 7637 or Arun Jain, Manager Linear Infrastructure and Class EA Lead of Exp Services Inc. at (905) 793-9800 Ext. 2373 or at arun.jain@exp.com.

Sincerely,

Teodor Kochmar, P.Eng., PMP
Project Manager
Plant Capital & Engineering

The Regional Municipality of Halton

Jean Louis Gaudet

From: Kasia Piskorz <kasia.piskorz@oakville.ca>
Sent: April-23-15 1:58 PM
To: Jean Louis Gaudet
Cc: Kochmar, Teodor; Arun Jain; Rakesh Mistry
Subject: RE: FYI - Letter Attached - Notice of Stakeholder Advisory Committee Meeting #1 - Municipal Class Environmental Assessment - Rerating of the Oakville WPP, Town of Oakville, PR-2989

Hi Jean-Louis,
Rakesh Mistry from the Town's Parks and Open Space Department will attend.

Kasia Piskorz, P.Eng
Project Leader - Capital Projects
Engineering and Construction
Town of Oakville | 905-845-6601 ext.3533 | f: 905-338-4159 | www.oakville.ca

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<http://www.oakville.ca/privacy.html>

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

From: Jean Louis Gaudet [mailto:jeanlouis.gaudet@exp.com]
Sent: Wednesday, April 22, 2015 6:57 PM
To: Kasia Piskorz
Cc: Kochmar, Teodor; Arun Jain
Subject: RE: FYI - Letter Attached - Notice of Stakeholder Advisory Committee Meeting #1 - Municipal Class Environmental Assessment - Rerating of the Oakville WPP, Town of Oakville, PR-2989

Hi Kasia,

Thanks for your e-mail, and sorry you will be unable to attend the SAC meeting.

Would you like to send another representative in your place?

Thanks,

Jean-Louis

Jean-Louis Gaudet | exp
Project Coordinator
t: +1.905.793.9809 x2344 | e: jeanlouis.gaudet@exp.com
1595 Clark Boulevard
Brampton, ON L6T 4V1
Canada

exp.com | [legal disclaimer](#)

keep it green, read from the screen

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

From: Kasia Piskorz [mailto:kasia.piskorz@oakville.ca]

Sent: April-22-15 3:39 PM

To: Jean Louis Gaudet

Cc: Kochmar, Teodor

Subject: RE: FYI - Letter Attached - Notice of Stakeholder Advisory Committee Meeting #1 - Municipal Class Environmental Assessment - Rerating of the Oakville WPP, Town of Oakville, PR-2989

Hi Jean-Louis,

I am unable to attend the meeting on May 12 since I will be away from May 7 - 13 on vacation. The Town is interested in the study and would like to be informed of the study findings and schedule as it could impact the work proposed for the Waterworks Parks shoreline.

Thanks,

Kasia Piskorz, P.Eng

Project Leader - Capital Projects

Engineering and Construction

Town of Oakville | 905-845-6601 ext.3533 | f: 905-338-4159 | www.oakville.ca

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Kasia Piskorz

Project Leader - Capital Projects

Engineering and Construction

Town of Oakville | 905-845-6601 ext.3533 | f: 905-338-4159 | www.oakville.ca

Please consider the environment before printing this email.

<http://www.oakville.ca/privacy.html>

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

From: Kennedy, Lily [mailto:Lily.Kennedy@halton.ca]

Sent: Wednesday, April 22, 2015 2:53 PM

To: Kasia Piskorz

Cc: Kochmar, Teodor

Subject: FYI - Letter Attached - Notice of Stakeholder Advisory Committee Meeting #1 - Municipal Class Environmental Assessment - Rerating of the Oakville WPP, Town of Oakville, PR-2989

Hello Ms. Piskorz,

Attached for your information is a letter regarding a notice of a Stakeholder Advisory Committee Meeting #1 - Municipal Class Environmental Assessment for the rerating of the Oakville Water Purification Plant in Ward 2, Town of Oakville.

Teodar Kochmar, Project Manager, is the Region's representative for this project and he can be reached at 905-825-6000 or toll free 1-866-442-5866, extension 7637 or via email at Teodor.Kochmar@halton.ca should you have any questions or concerns.

Thank you,

Lily Kennedy
Administrative Assistant
Water & Wastewater Treatment
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Telephone: 905-825-6000 or
Toll Free: 1-866-442-5866
Extension: 7926
Fax: 905-825-0267



Region of Halton
Oakville Water Purification Plant Rerating
Class Environmental Assessment
Stakeholders Advisory Committee

Meeting Agenda

Date:	Tuesday, May 12, 2015 - 9:30 am to noon		
Project Name:	Oakville Water Purification Plant Rerating Class Environmental Assessment	Project #	BRM-605015
Subject:	Stakeholders Advisory Committee Meeting #1		
Participants:	Councillor Cathy Duddeck, Halton Region (CD) Councillor Pam Damoff, Town of Oakville (PD) Kasia Piskorz, Town of Oakville (KP) Paul Bond, Conservation Halton (PB) Teodor Kochmar, Halton Region (TK) Chris Hunter, GHD (CH) Arun Jain, exp (AJ) Mudassar Muhammad, Hatch Mott (MM)		
Location:	Halton Region's offices 1075 North Service Rd. West Unit 27 – Oak Room Oakville, Ontario	Prepared By:	JL Gaudet / Arun Jain
Distribution:	All participants		

1. Overview of the Class EA Project
2. Review of EA Planning Process
3. Proposed Alternative Solutions
break
4. Proposed Evaluation Criteria
5. Other Relevant Studies
6. Next Steps

Municipal Class EA Study for Rerating of Oakville Water Purification Plant to 130 MLD

Stakeholder Advisory Committee Meeting #1

May 12, 2015



Agenda

- Overview of the Class EA
- Review of EA Planning Process
- Proposed Alternative Solutions
- Proposed Evaluation Criteria
- Other Relevant Studies
- Next Steps



Project Contact

Teodor Kochmar, P.Eng., PMP
Project Manager
Region of Halton Public Works
Plant Capital & Engineering
1151 Bronte Road
Oakville, ON L6M 3L1

Tel: (905) 825-6000 Ext. 7637
E-mail: Teodor.Kochmar@halton.ca



3

SAC Meeting Purpose

- Communicate project background, scope / progress and timelines to important stakeholders
- Present Proposed Alternatives and Evaluation Criteria and Obtain Feedback (SAC Meeting #1)
- SAC Terms of Reference



4

Introductions



Hatch Mott
MacDonald



5

Agenda

- **Overview of the Class EA**
- Review of EA Planning Process
- Proposed Alternative Solutions
- Proposed Evaluation Criteria
- Other Relevant Studies
- Next Steps



6

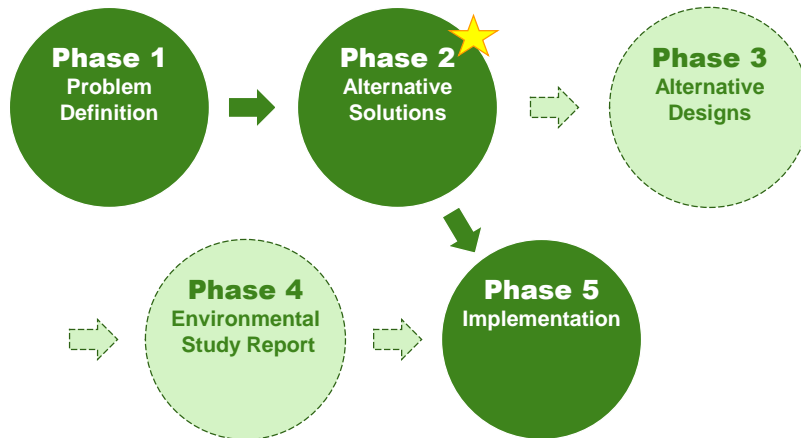
Problem Statement

Rerating of Plant Unit Operations to 130 ML/D	<ul style="list-style-type: none"> • Initiate and complete Class EA to allow for proper documentation and assessment of plant improvements undertaken to-date, including allowing for detailed public and agency review; • Initiate discussions with Ministry of Environment and Climate Change and demonstrate that plant can be rerated to 130 MLD; • Obtain required approvals.
Address high turbidity issue at the Raw Water Intake	<ul style="list-style-type: none"> • Review plant process based and intake modification based solution alternatives; • Complete Class EA if plant process based solution is adequate; • If intake modification is the preferred alternative, then upgrade Class EA to Schedule C and complete review of design alternatives.

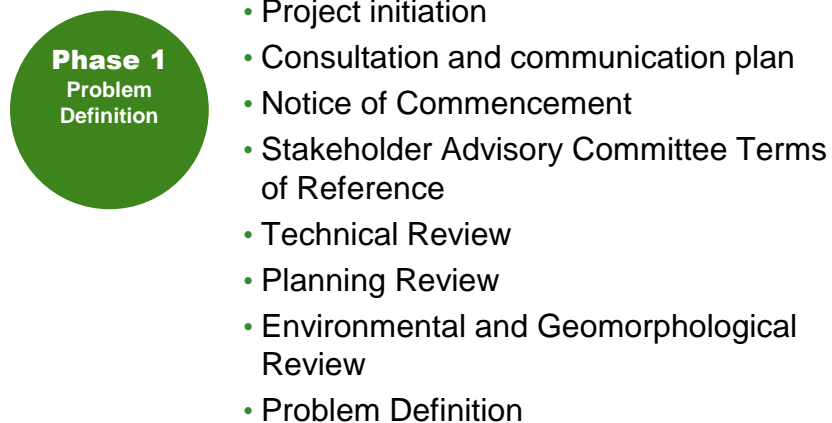
Agenda

- Overview of the Class EA
- **Review of EA Planning Process**
 - EA Process
 - Consultation
 - Planning
 - Environmental
 - Technical
- Proposed Alternative Solutions
- Proposed Evaluation Criteria
- Other Relevant Studies
- Next Steps

EA Process



EA Process



EA Process



In Progress

- Alternative solutions (draft)
- Evaluation criteria (draft)
- Plant Rating Assessment
- SAC Meeting #1

EA Process



To be Completed

- Evaluation of alternatives
- Selection of preferred alternative
- Confirmation of EA Schedule
- Ongoing consultation activities

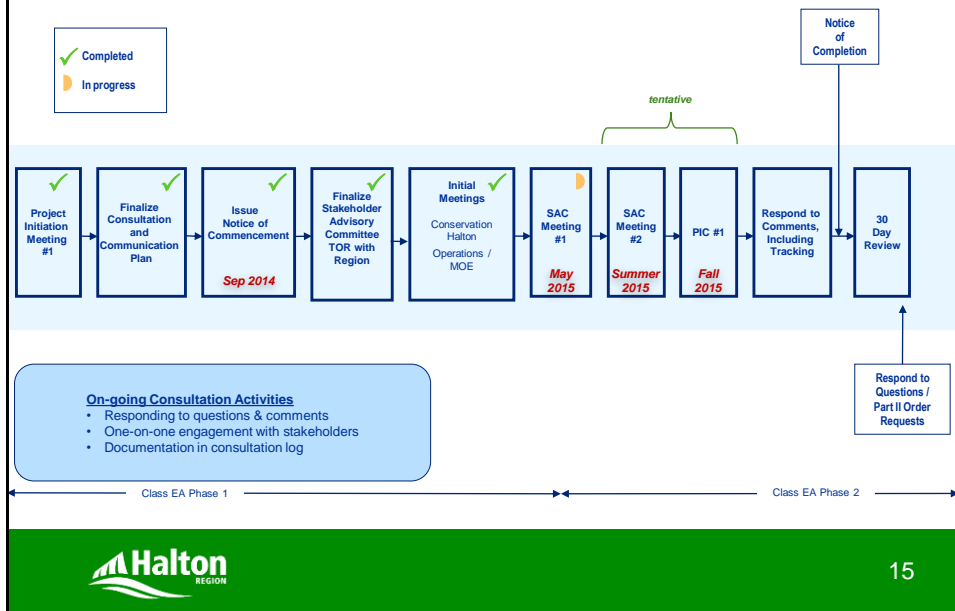
Agenda

- Overview of the Class EA
- **Review of EA Planning Process**
 - EA Process
 - **Consultation**
 - Planning
 - Environmental
 - Technical
- Proposed Alternative Solutions
- Proposed Evaluation Criteria
- Other Relevant Studies
- Next Steps

Project Overview – Consultation

- Initiate dialogue with MOECC to seek concurrence to rerating
- Construction fatigue of area residents
- Meaningful dialogue through local councillors
- Stakeholder Advisory Committee

Project Overview – Consultation



Agenda

- Overview of the Class EA
- **Review of EA Planning Process**
 - EA Process
 - Consultation
 - **Planning**
 - Environmental
 - Technical
- Proposed Alternative Solutions
- Proposed Evaluation Criteria
- Other Relevant Studies
- Next Steps

Project Overview – Planning

- Existence of lakefront trail system
- Need to understand and evaluate impact of potential water lots on any proposed work in lake
- Impacts on surrounding land use
- Tannery and Waterworks Park EA

Agenda

- Overview of the Class EA
- **Review of EA Planning Process**
 - EA Process
 - Consultation
 - Planning
 - **Environmental**
 - Technical
- Proposed Alternative Solutions
- Proposed Evaluation Criteria
- Other Relevant Studies
- Next Steps

Project Overview – Environmental

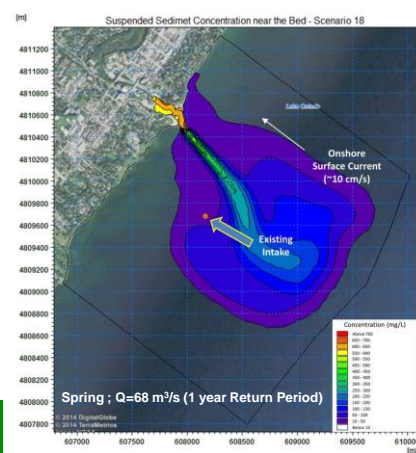
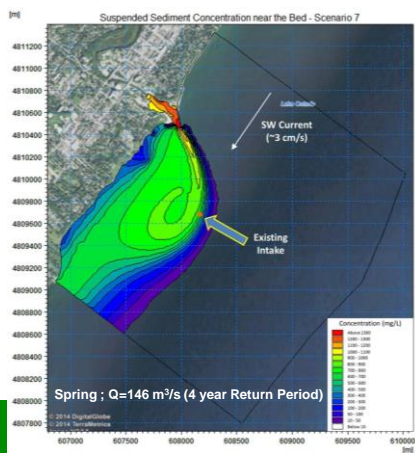
- Plume Delineation
- Fish Habitat
- Species at Risk



19

Plume Delineation Assessment

- Plume examples (will vary depending on scenarios)
- Study assessed 29 different scenarios



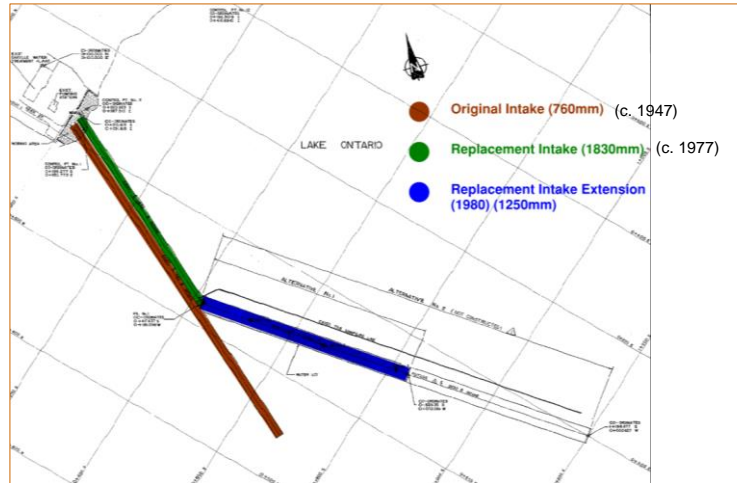
Fish Habitat

- Fish habitat data limited
- Lake shoreline home to numerous fish species
 - 27 species identified in electrofishing surveys
 - Majority of fish caught include Emerald Shiner, Gizzard Shad, White Sucker, Brown Trout and the invasive Round Goby
 - Species at Risk records indicate Northern Bobwhite, Redside Dace and Shortnose Cisco in vicinity of plant/intake

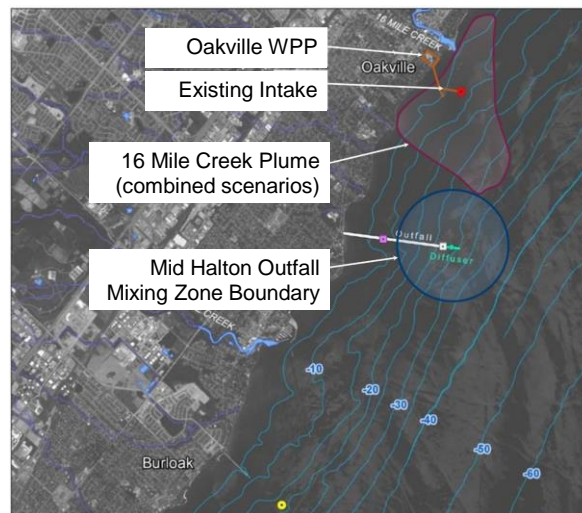
Agenda

- Overview of the Class EA
- **Review of EA Planning Process**
 - EA Process
 - Consultation
 - Planning
 - Environmental
 - **Technical**
- Proposed Alternative Solutions
- Proposed Evaluation Criteria
- Other Relevant Studies
- Next Steps

Project Overview - Existing Intake Alignment



Project Overview: Intake Water Quality Influences



Project Overview – Oakville Plant



Project Overview – Rerating

- Evaluation and Confirmation of:
 - Hydraulic capacity
 - Plant process treatability
 - Chemical systems capacity

Agenda

- Overview of the Class EA
- Review of EA Planning Process
- **Proposed Alternative Solutions**
 - Plant Rerating
 - Raw Water Turbidity
- Proposed Evaluation Criteria
- Next Steps

Alternative Solutions

Rerating of Plant Unit Operations to 130 ML/D	<ul style="list-style-type: none"> • Initiate and complete Class EA to allow for proper documentation and assessment of plant improvements undertaken to-date, including allowing for detailed public and agency review; • Initiate discussions with Ministry of Environment and Climate Change and demonstrate that plant can be rerated to 130 MLD; • Obtain required approvals.
Address high turbidity issue at the Raw Water Intake	<ul style="list-style-type: none"> • Review plant process based and intake modification based solution alternatives; • Complete Class EA if plant process based solution is adequate; • If intake modification is the preferred alternative, then upgrade Class EA to Schedule C and complete review of design alternatives.

Alternative: Plant Rerating

- Unit Process Analysis
 - Actiflo
 - Ozonation
 - Filtration
- Hydraulics and Modeling
 - Detailed hydraulics Modelling
 - Identify Bottlenecks (filters and plant piping possible)

Alternative: Plant Rerating - Field-Scale Testing

- Hydraulic Study
 - Operate at various flow rates
 - Verify results of hydraulic modeling
 - Calibrate Hydraulic Model
- Re-rating Study
 - Stress testing to evaluate Capacity
 - Identify Process Constraints
 - Optimize Actiflo and Ozone Systems

Alternatives

- Do Nothing
- Alternative 1: Plant Process-based Solution
- Alternative 2: Extend Existing Intake
- Alternative 3: Build a New Intake

Alternatives

Alternative 1: Plant Process-based Solution

- **Process optimization**
 - Optimize plant's control logic for flow control and chemical feeds for high turbidity.
- **Process optimization plus minor in-plant upgrades**
 - Optimize plant's control logic (flow and chemical systems)
 - Where necessary, conduct minor equipment or instrumentation upgrades to enable net production flows of 130 ML/d at high turbidity

Alternatives

Alternative 2: Extend Existing Intake

- Place new intake pipe from end of existing intake to new location
- Possible construction methods:
 - Cut and cover (i.e., blasting and dredging of bedrock)
 - Tunnel construction (would require watertight shaft and coffer dams)
- Staging would not have to be at WPP shore, but instead from a harbor area



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Alternatives

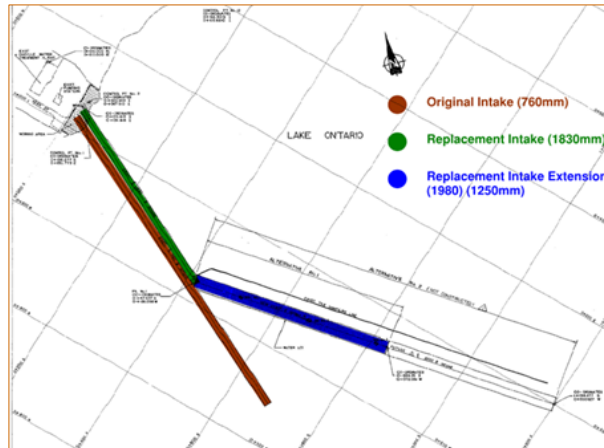
Alternative 3: Build a New Intake

- Build an entirely new intake from Oakville WPP to new intake location
- Possible construction methods:
 - Cut and cover (i.e., blasting and dredging of bedrock)
 - Tunnel construction (would require watertight shaft and coffer dams)

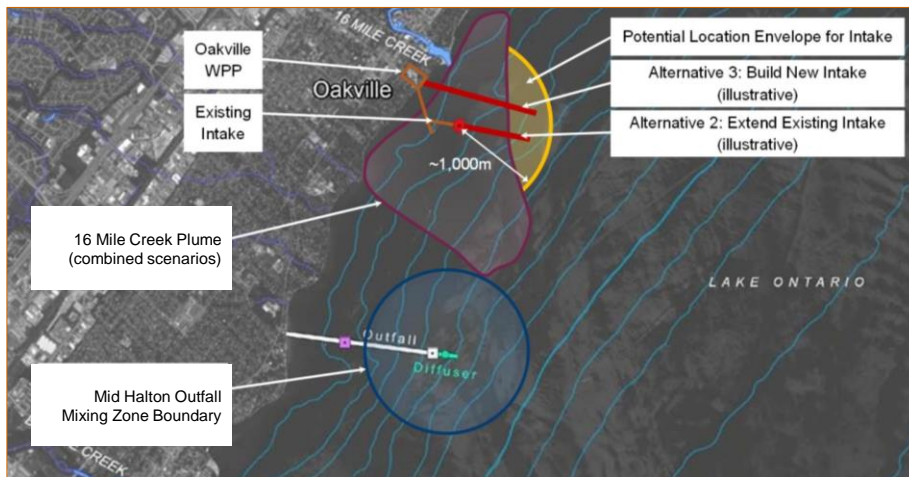


34

Existing Intake



Intake Alternatives



Discussion on Alternatives

- Feedback on alternatives

Agenda

- Overview of the Class EA
- Review of EA Planning Process
- Proposed Alternative Solutions
- **Proposed Evaluation Criteria**
- Other Relevant Studies
- Next Steps

Proposed Evaluation Criteria

- Initial Screening against Problem Statement:
 - Will the alternative meet the objective of re-rating of the Oakville WPP from 109 to 130 ML/d?
 - Will the alternative address the occasional high turbidity issues at the raw water intake?

Proposed Evaluation Criteria

Criteria	Criteria Description	Indicators
1.Natural Environment Criteria		
1a. Fisheries and aquatic systems	<ul style="list-style-type: none"> • Potential to minimize adverse impacts to fisheries and other aquatic species (including aquatic species at risk, species of local concern, native and invasive species) and the aquatic systems in the receiving water 	i) Specific fish and plants at risk in this area ii) Extent of disruption of aquatic habitat iii) Effect on ground water system
1b. Terrestrial systems	<ul style="list-style-type: none"> • Potential to minimize impact to terrestrial habitats or systems, including possible effects on the shoreline and wildlife (including species at risk, species of local concern, native and invasive species, and area-sensitive species) and terrestrial features/functions 	i) Specific plant and animals living in this area ii) Extent of disruption to terrestrial environment

Proposed Evaluation Criteria

Criteria	Criteria Description	Indicators
2. Social and Cultural Environment Criteria		
2a. Noise, vibration and other disruptions	<ul style="list-style-type: none"> Potential of the alternative to not increase noise, vibration or other disruptions during construction 	i) Disruption to use of local park and shoreline path, parking area, docking bay ii) Noise during construction iii) Vibration during construction iv) Visual impact during construction v) Increased construction traffic in neighbourhood
2b. Archaeology	<ul style="list-style-type: none"> Potential of the strategy to not affect any archaeologically significant findings in the project area 	i) Archaeological potential ii) Presence of archaeological findings in project area



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Proposed Evaluation Criteria

Criteria	Criteria Description	Indicators
3. Technical (Implementation and Operation) Criteria		
3a. Ability to address water quality concerns	<ul style="list-style-type: none"> Ability of the alternative to satisfactorily address the water quality concerns related to turbidity 	i) Plant operable during sediment plume events ii) Plant operable at 130 ML/d production during sediment plume events
3b. Water treatment plant and distribution system operations	<ul style="list-style-type: none"> Ability of the alternative to support operation of the water treatment plant and distribution system operations, both during and post-construction 	i) Impact on plant hydraulics ii) Impact on plant chemical systems iii) Duration and occurrence of plant shutdown and impact on Halton water distribution system during operation/construction
3c. Future Water Demands	<ul style="list-style-type: none"> Ability of the alternative to meet future water demands 	i) Alternative capable of 130 ML/d or more production to distribution system
3d. Climate Change Adaptation	<ul style="list-style-type: none"> Ability to adapt to changes in the environment related to climate change 	i) Adaptability to more frequent extreme weather causing more frequent high turbidity events ii) Adaptability to receding shoreline and decreasing lake elevation iii) Adaptability to increased development along Sixteen Mile Creek, coupled with more extreme weather and consequently resulting in more runoff



Proposed Evaluation Criteria

Criteria	Criteria Description	Indicators
3. Technical (Implementation and Operation) Criteria		
3e. Emerging Contaminants	<ul style="list-style-type: none"> Ability to adapt to contaminants of emerging concern (CECs), including chemical, microbial, pharmaceuticals and personal care products (PCPs), perfluorinated compounds (PFCs), polybrominated diphenyl ethers (PBDEs), and others 	i) Ability to adapt to chemical CECs ii) Ability to adapt to microbial CECs iii) Potential concentration of CECs entering plant from variety of sources (sediment plume, Mid-Halton WWTP outfall plume, other known localized areas of concern in lake, or from other sediment sources (e.g. lake bottom)
3f. Constructability	<ul style="list-style-type: none"> Can be easily implemented on a technical and constructability basis 	i) Technical challenges
3g. Regulatory requirements	<ul style="list-style-type: none"> Number and complexity of approvals required to implement alternative 	i) Need for and complexity of DFO approval ii) Need for and complexity of MOE approval iii) Need for and complexity of Conservation Halton approval iv) Need for and complexity of MNR approval

Proposed Evaluation Criteria

Criteria	Criteria Description	Indicators
4. Economic Criteria		
4a. Lifecycle cost	<ul style="list-style-type: none"> Total estimated costs associated with the alternative over the planning period 	i) Overall lifecycle cost

Discussion on Evaluation Criteria

- Feedback on criteria

Agenda

- Overview of the Class EA
- Review of EA Planning Process
- Proposed Alternative Solutions
- Proposed Evaluation Criteria
- **Other Relevant Studies**
- Next Steps

Other Relevant Studies

- Standby Power Feasibility Study

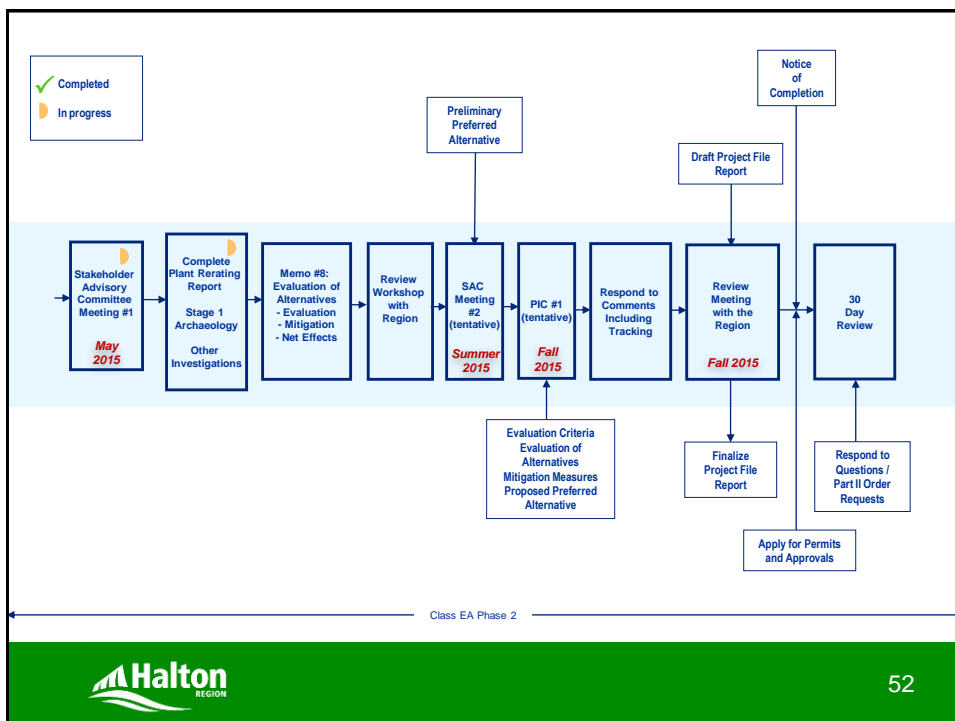
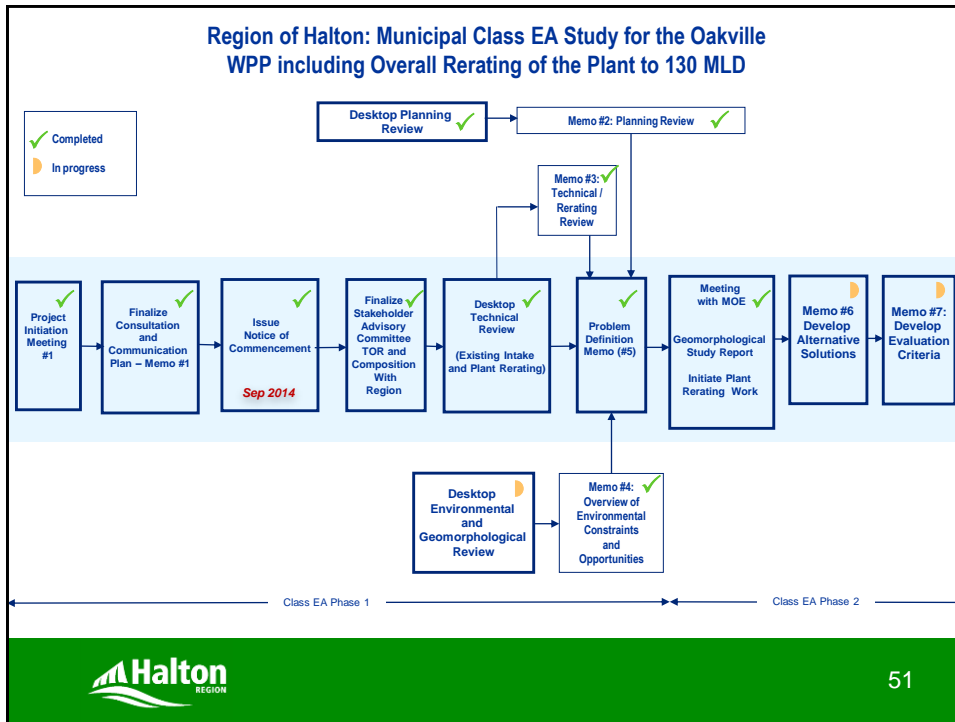
Agenda

- Overview of the Class EA
- Review of EA Planning Process
- Proposed Alternative Solutions
- Proposed Evaluation Criteria
- Other Relevant Studies
- **Next Steps**

Next Steps

- Complete Evaluation of Alternatives
- Communicate to Stakeholders
- Approvals
 - Revised Permit to Take Water
 - Drinking Water Works Permit Amendment

Final Thoughts?



Summary Project Scope

The Project consists of Part A and Part B

1. Municipal Class EA and Plant Rerating
 1. EA Phase 1 – Desktop Review, Initial Consultation and Problem Definition
 2. EA Phase 2 – Evaluate Alternative Solutions (supported by studies)
 3. EA Phase 3 - Evaluate Design Alternatives (supported by studies)
 4. Project File Report / Environmental Study Report
 5. Plant Rerating Review (Part of EA Phase 1)
2. Hydraulic Assessment of Plant at 130 MLD (Part of EA Phase 2)
3. Assessment and Testing of Actiflo, Ozone and Chemical System to handle 130 MLD (Part of EA Phase 2)
4. Preliminary Design of Intake Extension / New Intake

(Scope for Part B shown in Red; Part B will be initiated if the preferred solution is to modify/replace the existing intake)

Oakville WPP Class EA		
Evaluation Criteria for Alternative Solutions (draft, for discussion)		
Criteria	Criteria Description	Indicators
1.Natural Environment Criteria		
1a. Fisheries and aquatic systems	The alternative's potential to minimize adverse impacts to fisheries and other aquatic species (including aquatic species at risk, species of local concern, native and invasive species) and the aquatic systems in the receiving water	i) Specific fish and plants at risk in this area ii) Extent of disruption of aquatic habitat iii) Effect on ground water system
1b. Terrestrial systems	The alternative's potential to minimize impact to terrestrial habitats or systems, including possible effects on the shoreline and wildlife (including species at risk, species of local concern, native and invasive species, and area-sensitive species) and terrestrial features/functions	i) Specific plant and animals living in this area ii) Extent of disruption to terrestrial environment
2. Social and Cultural Environment Criteria		
2a. Noise, vibration and other disruptions	The potential of the alternative to not increase noise, vibration or other disruptions during construction	i) Disruption to use of local park and shoreline path, parking area, docking bay. ii) Noise during construction iii) Vibration during construction iv) Visual impact during construction v) Increased construction traffic in neighbourhood
2b.Archaeology	The potential of the strategy to not affect any archaeologically significant findings in the project area	i) Archaeological potential ii) Presence of archaeological findings in project area
3. Technical (Implementation and Operation) Criteria		
3a. Ability to address water quality concerns	The ability of the alternative to satisfactorily address the water quality concerns related to turbidity	i) Plant operable during sediment plume events ii) Plant operable at 130 ML/d production during sediment plume events
3b. Water treatment plant and distribution system operations	The ability of the alternative to support operation of the water treatment plant and distribution system operations, both during and post-construction	i) Impact on plant hydraulics ii) Impact on plant chemical systems iii) Duration and occurrence of plant shutdown and impact on Halton water distribution system during operation/construction
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4. Economic Criteria		
4a.Lifecycle cost	The total estimated costs associated with the alternative over the planning period	i) Overall lifecycle cost

Jean Louis Gaudet

From: Kochmar, Teodor <Teodor.Kochmar@halton.ca>
Sent: July-22-15 10:16 AM
To: kasia.piskorz@oakville.ca; Paul Bond (pbond@hrca.on.ca)
Cc: Arun Jain; Jean Louis Gaudet; Hunter, Chris (chunter@craworld.com); Newton, Jesse GHD (Jesse.Newton@ghd.com); rmistry@oakville.ca; tlabuda@hrca.on.ca
Subject: Oakville WPP Class EA - SAC #1 Meeting Minutes
Attachments: Oakville WPP Class EA - SAC 1 Minutes (2015July 10).pdf

Good morning,

Attached, kindly find the meeting minutes from the SAC #1 meeting that took place on Tuesday, May 12th. For any errors, omissions or questions, please let me know.

Best regards,

Teodor Kochmar, P.Eng., PMP
Project Manager – Plant Capital and Engineering
Public Works Department
Regional Municipality of Halton

1151 Bronte Road, Oakville, ON L6M 3L1
Tel: 905-825-6000 ext. 7637
Toll Free: 1-866-442-5866
Fax: 905-825-8822
Website: www.halton.ca

Jean Louis Gaudet

From: Paul Bond <pbond@hrca.on.ca>
Sent: July-31-15 2:45 PM
To: Kochmar, Teodor; kasia.piskorz@oakville.ca
Cc: Arun Jain; Jean Louis Gaudet; Hunter, Chris (chunter@croworld.com); Newton, Jesse GHD (Jesse.Newton@ghd.com); rmistry@oakville.ca; Teresa Labuda
Subject: RE: Oakville WPP Class EA - SAC #1 Meeting Minutes

Thank-you for the meeting minutes Teo. I have reviewed them and have no further comments.

Paul.

Paul Bond
Environmental Planner
Conservation Halton

t: 905-336-1158 ext. 2257 | f: 905-336-6684
2596 Britannia Road West
Burlington ON L7P 0G3
e-mail: pbond@hrca.on.ca
www.conservationhalton.ca

From: Kochmar, Teodor [mailto:Teodor.Kochmar@halton.ca]
Sent: July-22-15 10:16 AM
To: kasia.piskorz@oakville.ca; Paul Bond
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Minutes

10 July 2015

Project	Class EA Study for the Oakville Water Purification Plant Including the Overall Re-rating of the Plant to 130 ML/d	From	From: Jean-Louis Gaudet
		Tel	905-793-9809 x 2344
Subject	Stakeholder Advisory Committee #1	Date/Time	May 12, 2015 / 9:30 am
Venue/Date/Time	1075 North Service Rd. West Oakville, ON	GHD ref	8811884
		Client ref	PR-2989
Attendees	Teodor (Teo) Kochmar, Magda Bielawski (Halton Region) Paul Bond, Teresa Labuda (Conservation Halton) Rakesh Mistry (Town of Oakville) Chris Hunter (GHD) Mudassar Muhammad (HMM) Arun Jain, Jean-Louis (JL) Gaudet (exp)	Copies to	All attendees

ITEM	MINUTES	ACTION
A	WELCOME AND INTRODUCTION	
A.1	<ul style="list-style-type: none">Teo welcomed all of the participants and everyone introduced themselves.Teo summarized the purpose of the Stakeholder Advisory Committee, which was to provide feedback on the project process. For today's meeting, feedback is asked on the proposed alternative solutions and the proposed evaluation criteria.	
B	OVERVIEW OF CLASS EA PROJECT	
B.1	<ul style="list-style-type: none">Arun described the purpose of the Class EA project and presented the study's problem statement. It was noted that plant needs to be rated to 130 ML/d from current capacity of 109 ML/d and intake solution is to be evaluated for addressing problem of periodic high raw water turbidity at the plant.	

ITEM	MINUTES	ACTION
C	REVIEW OF EA PLANNING PROCESS	
C.1	<ul style="list-style-type: none"> Arun described the planning process for the Class EA. He noted that the EA is currently following a Schedule B process, but this could be expanded to a Schedule C depending on which alternative solution is selected. Arun reviewed the tasks completed during Phase 1 of the EA and the tasks being undertaken in Phase 2. Teresa asked if the decision on whether the intake is needed has been made. Arun confirmed that it has not and will be part of the evaluation. In response to another question; it was noted that the project need is driven by master planning completed by the Region. JL reviewed the consultation process for the project. Teresa noted that Conservation Halton no longer consults on behalf of DFO and that they would need to be engaged directly. Arun confirmed that DFO has been contacted about the project. JL provided an overview of the results of the study's planning review. Rakesh provided some additional information on the Tannery and Waterworks Park EA: <ul style="list-style-type: none"> The project looked at improving the pedestrian trail system in the area. The proposed works include armouring the shoreline along 500 m of water frontage and creating a pedestrian linkage between the Tannery and the Waterworks Park. Construction to occur Fall 2016/Winter 2017. In case of an intake extension or new intake construction, it was noted that the construction windows may not conflict. Magda suggested that if a new intake is required that the Town postpone upgrades to the Waterworks Park until after the intake construction is completed. JL and Chris provided an overview of the plume delineation assessment prepared by GHD. Chris noted that, in the previous five years, there were 11 instances where operators shut down the Oakville Water Purification Plant (OWPP) because of high turbidity (they would typically shut it down when turbidity in the intake reached 100 NTU). This occurred primarily during the spring and after periods of high rain. Teresa commented that the plume assessment should consider the worst case scenario. She asked what impact wind has on the modeling. Chris indicated he would confirm. <p>Post-meeting note: Wind drives the local lake currents. Wind was used in the plume assessment model to generate both the on-shore and off-shore surface currents. The modelling did not consider waves since the focus was on the impact of suspended sediment supplied by 16 Mile Creek. Modelling scenarios were selected with the focus on the scenarios most likely to cause high turbidity at the intake. Both frequency and magnitude of worst case scenarios were considered.</p>	Project Team (GHD) (Resolved)

ITEM	MINUTES	ACTION
	<ul style="list-style-type: none"> JL summarized the findings on fish habitat and aquatic species at risk from the natural heritage investigation. Mudassar described the current and past alignments of the OWPP water intake and the intake water quality influences, including the mid-Halton outfall mixing zone boundary and the boundary of the sediment plume resulting from discharges from Sixteen Mile Creek. Teresa asked why the intake is so large. Teo noted that it would be likely be to meet future needs. Mudassar added that it may have also improved the intake's constructability. Teresa asked if the pipe would be constructed on top of the lakebed. Mudassar replied that the alignment would be dredged and the intake pipe covered. However, lake bed survey is required to further evaluate the construction methodology. Rakesh and Paul indicated that they would like to know the current depth and alignment of the intake going into the OWPP. Rakesh indicated that this would be important to know for the Tannery and Waterworks Park construction. It was noted that this would be on the intake drawings and could be provided. Chris provided an overview of the Oakville WPP and its various components. He also described the Plant rerating testing. 	Region
D	PROPOSED ALTERNATIVE SOLUTIONS FOR HIGH RAW WATER TURBIDITY	
D.1	<p><i>Alternative 1: Plant Based Solution</i></p> <ul style="list-style-type: none"> Chris led off the discussion on alternative solutions by discussing the Plant rerating process and the results of the field-scale testing. Teresa asked if the trial was conducted during different weather conditions. Chris replied that it was one of the risks considered, but that the test could not allow bad water to be pumped into the water supply system. He explained that they did experience some elevated turbidity as the test ramped up, due to scouring of settled sediment in the intake pipe. Teo explained that testing at high turbidity would be extremely difficult to coordinate with high-turbidity events due to the considerable preparation that must be done prior to the test. Teresa asked how realistic the trial was, noting that the OWPP will face more stormy events in the future and has had 11 shutdowns in the past due to turbidity. Teo explained that the plant was likely shut down due to a plant shut down protocol for high turbidity raw water as opposed to the plant's ability to adequately treat high turbidity raw water. It was noted that the purpose of the trial was to evaluate the water treatment capacity of the plant at normal raw water quality, and the trial was successful. Chris added that water samples were taken during the trial, which may allow the team to compare and extrapolate water quality. It was also noted that as such OWPP's Actiflo® treatment system can handle high turbidity up to 300 NTU. The challenge however is 	

ITEM	MINUTES	ACTION
	<p>the response time required to make plant process changes to respond to high turbidity events. Rakesh asked if the plant would run at 130 ML/day 24/7. Chris answered that it would not and that the rating is a maximum. For example, the OWPP is currently rated for 109 ML/day; however, only occasionally this level of demand is required.</p> <ul style="list-style-type: none"> Paul asked whether Alternative 1 (plant-based solution) would require any modification at the end of the intake, such as screening. Arun and Chris noted that this has not yet been determined, but that it would depend on turbidity and other water quality factors. Chris noted that they will be examining this over the next couple of months. 	
D.2	<p><i>Alternatives 2 and 3: Extend existing or build new intake</i></p> <ul style="list-style-type: none"> Mudassar explained Alternatives 2 and 3, which were to extend the existing intake or build a new intake, respectively. Teresa asked whether the project team has considered that there may be more storms and other climate change related impacts in the future, in particular increase storm severity and frequency. Teo noted that adaptability to climate change is considered in the evaluation criteria. Teresa commented that the International Joint Commission is considering a different scheme for regulating water levels in Lake Ontario, which could potentially affect lake levels, but no decisions have yet been made. She suggested that this be considered in the evaluation. Magda asked whether alternatives 2 and 3 would also include plant optimization and upgrades, and further noted that the cost comparison between alternatives should consider the plant-based costs that will be happening anyway due to plant optimization. Chris agreed that it will need to be considered, along with life cycle costs, for example cost of pipe installation versus plant operational costs. Arun confirmed that the project team could consider a fourth alternative that is a hybrid of the intake upgrade and plant optimization. <p>Post Meeting Note: Based on comments received during the SAC meeting and subsequent discussion, the alternatives to be evaluated have been updated as follows:</p> <ol style="list-style-type: none"> 1. Do nothing. 2. Alternative 1: Implement a plant-based solution to address high turbidity + Minor upgrades to optimize plant performance to achieve 130 ML/d production capacity. 3. Alternative 2: Extend the existing intake to address high turbidity + Minor upgrades to optimize plant performance to achieve 130 ML/d production capacity. 4. Alternative 3: Build a new intake to address high turbidity + Minor upgrades to optimize plant performance to achieve 130 ML/d production capacity. 	Project Team

ITEM	MINUTES	ACTION
	5. <i>Alternative 4: Hybrid: Extend the existing intake and implement a plant-based solution to address high turbidity + Minor upgrades to optimize plant performance to achieve 130 ML/d production capacity.</i>	
E	PROPOSED EVALUATION CRITERIA	
E.1	<ul style="list-style-type: none"> JL presented the proposed evaluation criteria. Comments and suggestions included: <ul style="list-style-type: none"> Use specific and measurable indicators. This will help make the evaluation repeatable (i.e., with specific and measurable indicators, someone should be to get the same results if the evaluation is repeated) and remove subjectivity and bias Delete the “effect on ground water system” indicator under 1a, as it is too general and does not apply to fisheries and aquatic systems Consider potential impacts from annual dredging of 16-Mile Creek on pipe location Under Natural Environment Criteria, consider coastal processes as a criteria Under 2a, consider post-construction noise and vibration during operation Under 3a, consider a maximum NTU value at which the plant should continue to remain operational Under 3a, delete indicator ‘i. Plant operable during sediment plume events’ as it does not contribute to the problem statement Under 3f, include indicators related to harbor improvement conflicts (e.g., waterfront improvements) and harbor activity (e.g., ability to use harbor for staging when boats are docked or wintered) Under 3g, change “need for and complexity of approvals” to “Likelihood of obtaining approvals” Under 4a, include initial capital cost as an indicator. Paul indicated that he would confirm fish timing window restrictions. 	Paul Bond
F	OTHER RELEVANT STUDIES	
	<ul style="list-style-type: none"> Teo provided an overview of the Standby Power Feasibility Study, which has just been initiated. The purpose of the assessment will be to assess whether Halton Region has sufficient back-up power to maintain required level of service from the lake-based plants. 	
G	NEXT STEPS	
	<ul style="list-style-type: none"> Arun reviewed the project schedule and next steps for the project. It was noted that an evaluation of alternatives would be completed over Summer 2015 likely followed by second SAC meeting. It is 	

ITEM	MINUTES	ACTION
	also proposed to hold a Public Information Centre to present findings of the evaluation.	

This communication constitutes our understanding of the items discussed and any conclusions reached. If there are any clarifications or corrections, please advise this author, in writing within four (4) working days of receipt.

Submitted by

Jean-Louis Gaudet / Arun Jain, exp. Services Inc.

Bell, Angela

Subject: Invitation - Stakeholder Advisory Committee Meeting #2 – Municipal Class Environmental Assessment for Oakville Water Purification Plant - PR-2989A

Location: Oak Room - 1075 North Service Road West, Unit #27, Oakville

Start: Wed 5/25/2016 9:30 AM

End: Wed 5/25/2016 12:00 PM

Recurrence: (none)

Meeting Status: Meeting organizer

Organizer: Bell, Angela

Required Attendees: kasia.piskorz@oakville.ca

Good Morning Ms. Piskorz,

Please find attached the Invitation along with Agenda for the upcoming Stakeholder Advisory Committee Meeting #2 – Municipal Class Environmental Assessment for Oakville Water Purification Plant Capacity Increase from 109 to 130 ML/d, Town of Oakville, Ward 2, Our File: PR-2989A, scheduled for Wednesday, May 25th, 2016.

Kindly confirm your attendance by either accepting or declining this calendar invitation.



Thank you,

Angela Bell
Administrative Assistant to the Director of Water & Wastewater Treatment
Public Works
Halton Region
905-825-6000, ext. 7926 | 1-866-442-5866





May 2, 2016

Kasia Piskorz
Town of Oakville
1225 Trafalgar Road
Oakville, ON
L6H 0H3

Public Works Department
Water & Wastewater Treatment
1151 Bronte Road
Oakville ON L6M 3L1

Dear Ms. Piskorz:

Re: Stakeholder Advisory Committee Meeting #2 – Municipal Class Environmental Assessment for Oakville Water Purification Plant Capacity Increase from 109 to 130 ML/d, Town of Oakville, Ward 2, Our File: PR-2989A

The Regional Municipality of Halton is conducting a Municipal Class Environmental Assessment (Class EA) for the purpose of increasing the production capacity of the Oakville Water Purification Plant (WPP) from 109 million litres per day (ML/d) to 130 ML/d. The Class EA is also investigating security of supply matters related to this facility (a) from occasional raw water high turbidity (i.e. sediment) episodes following periods of heavy rainfall and (b) from occasional power outages.

Halton Region will hold its second Stakeholder Advisory Committee (SAC) meeting for the Class EA on **Wednesday, May 25, 2016 from 9:30 a.m. to 12:00 p.m. at Halton Region, 1075 North Service Rd West, Unit 27, Oakville in the Oak Room.** As an invitee to the first SAC meeting in May 2015, we invite you to join us for this second SAC meeting. An agenda for the meeting is attached.

The purpose of SAC Meeting #2 will be to:

- Update you on the project and on activities completed to date;
- Review the alternative solutions and evaluation process, including the identification of the preliminary preferred alternative solution; and
- Share with you the information to be presented at the Public Information Centre scheduled for mid-June of this year.

We look forward to seeing you at SAC Meeting #2. If you have any questions, please do not hesitate to contact the undersigned or Arun Jain, Manager Linear Infrastructure and Class EA Lead of Exp Services Inc. at (905) 793-9800 Ext. 2373 or at arun.jain@exp.com.

Sincerely,

Michelle Gillespie, P.Eng.
Project Manager, Plant Capital & Engineering
Halton Region
Tel: 905-825-6000, ext.3309

Encl.

Regional Municipality of Halton

HEAD OFFICE: 1151 Bronte Rd, Oakville, ON L6M 3L1
905-825-6000 | Toll free: 1-866-442-5866



Halton Region
Municipal Class Environmental Assessment
Oakville Water Purification Plant Capacity Increase
Stakeholders Advisory Committee

Meeting Agenda

Date:	Wednesday, May 25th, 2016 - 9:30 a.m. to 12:00 p.m.		
Project Name:	Municipal Class Environmental Assessment for Oakville Water Purification Plant Capacity Increase	Project #	PR-2989A
Subject:	Stakeholders Advisory Committee Meeting #2		
Participants:	To Be Confirmed		
Location:	Halton Region's offices 1075 North Service Rd. West Unit 27 – Oak Room Oakville, Ontario	Prepared By:	JL Gaudet / Arun Jain
Distribution:	All participants		

1. Project Overview
2. Update on Supporting Studies
 - 2.1. Natural Heritage
 - 2.2. Archaeological Assessment
 - 2.3. Environmental and Geomorphological Baseline Summary
 - 2.4. Sixteen Mile Creek Plume Delineation
 - 2.5. Baseline Plant Capacity Review
 - 2.6. Full-scale 130 ML/d Plant Test
 - 2.7. Standby Power Risk Assessment
3. Review of Alternative Solutions
4. Evaluation Process
5. Preliminary Preferred Alternative
6. Public Information Centre #2
7. Project Timeline and Next Steps

Regional Municipality of Halton

HEAD OFFICE: 1151 Bronte Rd, Oakville, ON L6M 3L1
905-825-6000 | Toll free: 1-866-442-5866



May 2, 2016

Amanda Graham
5775 Yonge Street, 8th Floor
North York, ON
M2M 4J1

Public Works Department
Water & Wastewater Treatment
1151 Bronte Road
Oakville ON L6M 3L1

Dear Ms. Graham:

Re: Stakeholder Advisory Committee Meeting #2 – Municipal Class Environmental Assessment for Oakville Water Purification Plant Capacity Increase from 109 to 130 ML/d, Town of Oakville, Ward 2, Our File: PR-2989A

The Regional Municipality of Halton is conducting a Municipal Class Environmental Assessment (Class EA) for the purpose of increasing the production capacity of the Oakville Water Purification Plant (WPP) from 109 million litres per day (ML/d) to 130 ML/d. The Class EA is also investigating security of supply matters related to this facility (a) from occasional raw water high turbidity (i.e. sediment) episodes following periods of heavy rainfall and (b) from occasional power outages.

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Sincerely,

Michelle Gillespie, P.Eng.
Project Manager, Plant Capital & Engineering
Halton Region
Tel: 905-825-6000, ext.3309

Encl.

Regional Municipality of Halton

HEAD OFFICE: 1151 Bronte Rd, Oakville, ON L6M 3L1
905-825-6000 | Toll free: 1-866-442-5866



May 2, 2016

Anjala Puvananathan
Canadian Environmental Assessment Agency
55 St. Clair Avenue East, Suite 907
Toronto ON
M4T 1M2

Public Works Department
Water & Wastewater Treatment
1151 Bronte Road
Oakville ON L6M 3L1

Dear Ms. Puvananathan:

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Michelle Gillespie, P.Eng.
Project Manager, Plant Capital & Engineering
Halton Region
Tel: 905-825-6000, ext.3309

Encl.

Regional Municipality of Halton

HEAD OFFICE: 1151 Bronte Rd, Oakville, ON L6M 3L1
905-825-6000 | Toll free: 1-866-442-5866



May 2, 2016

Councillor Cathy Duddeck
Ward 2, Halton Region
137 Wolfdale Ave.
Oakville, ON
L6L 4R9

Public Works Department
Water & Wastewater Treatment
1151 Bronte Road
Oakville ON L6M 3L1

Dear Councillor Duddeck:

Re: Stakeholder Advisory Committee Meeting #2 – Municipal Class Environmental Assessment for Oakville Water Purification Plant Capacity Increase from 109 to 130 ML/d, Town of Oakville, Ward 2, Our File: PR-2989A.

The Regional Municipality of Halton is conducting a Municipal Class Environmental Assessment (Class EA) for the purpose of increasing the production capacity of the Oakville Water Purification Plant (WPP) from 109 million litres per day (ML/d) to 130 ML/d. The Class EA is also investigating security of supply matters related to this facility (a) from occasional raw water high turbidity (i.e. sediment) episodes following periods of heavy rainfall and (b) from occasional power outages.

Halton Region will hold its second Stakeholder Advisory Committee (SAC) meeting for the Class EA on **Wednesday, May 25, 2016 from 9:30 a.m. to 12:00 p.m. at Halton Region, 1075 North Service Rd West, Unit 27, Oakville in the Oak Room.** As an invitee to the first SAC meeting in May 2015, we invite you to join us for this second SAC meeting. An agenda for the meeting is attached.

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Sincerely,

Michelle Gillespie, P.Eng.
Project Manager, Plant Capital & Engineering
Halton Region
Tel: 905-825-6000, ext.3309

Encl.

Regional Municipality of Halton

HEAD OFFICE: 1151 Bronte Rd, Oakville, ON L6M 3L1
905-825-6000 | Toll free: 1-866-442-5866



May 2, 2016

Chris Hislop
Ministry of Natural Resources and Forestry – Aurora District
50 Bloomington Road
Aurora, ON
L4G 0L8

Public Works Department
Water & Wastewater Treatment
1151 Bronte Road
Oakville ON L6M 3L1

Dear Mr. Hislop:

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May 2, 2016

Fisheries Protection Program
Fisheries and Oceans Canada
867 Lakeshore Road
Burlington, Ontario
L7S 1A1

Public Works Department
Water & Wastewater Treatment
1151 Bronte Road
Oakville ON L6M 3L1

Dear Fisheries Protection Program:

Re: Stakeholder Advisory Committee Meeting #2 – Municipal Class Environmental Assessment for Oakville Water Purification Plant Capacity Increase from 109 to 130 ML/d, Town of Oakville, Ward 2, Our File: PR-2989A

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905-825-6000 | Toll free: 1-866-442-5866



May 2, 2016

Marc Desjardins
Lake Ontario Management Unit
41 Hatchery Lane, RR 4
Picton ON
K0K2T0

Public Works Department
Water & Wastewater Treatment
1151 Bronte Road
Oakville ON L6M 3L1

Dear Mr. Desjardins:

Re: Stakeholder Advisory Committee Meeting #2 – Municipal Class Environmental Assessment for Oakville Water Purification Plant Capacity Increase from 109 to 130 ML/d, Town of Oakville, Ward 2, Our File: PR-2989A

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Regional Municipality of Halton

HEAD OFFICE: 1151 Bronte Rd, Oakville, ON L6M 3L1
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May 2, 2016

Paul Bond
Conservation Halton
2596 Britannia Road West
Burlington, ON
L7P 0G3

Public Works Department
Water & Wastewater Treatment
1151 Bronte Road
Oakville ON L6M 3L1

Dear Mr. Bond:

Re: Stakeholder Advisory Committee Meeting #2 – Municipal Class Environmental Assessment for Oakville Water Purification Plant Capacity Increase from 109 to 130 ML/d, Town of Oakville, Ward 2, Our File: PR-2989A

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Halton Region
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905-825-6000 | Toll free: 1-866-442-5866



May 2, 2016

Councillor Ray Chisholm
Ward 2, Town of Oakville
1226 Trafalgar Road
Oakville, ON
L6H 0H4

Public Works Department
Water & Wastewater Treatment
1151 Bronte Road
Oakville ON L6M 3L1

Dear Councillor Chisholm:

Re: Stakeholder Advisory Committee Meeting #2 – Municipal Class Environmental Assessment for Oakville Water Purification Plant Capacity Increase from 109 to 130 ML/d, Town of Oakville, Ward 2, Our File: PR-2989A

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Halton Region
Tel: 905-825-6000, ext.3309

Encl.

Regional Municipality of Halton

HEAD OFFICE: 1151 Bronte Rd, Oakville, ON L6M 3L1
905-825-6000 | Toll free: 1-866-442-5866



May 2, 2016

Rakesh Mistry
Town of Oakville
1225 Trafalgar Road
Oakville, ON
L6H 0H3

Public Works Department
Water & Wastewater Treatment
1151 Bronte Road
Oakville ON L6M 3L1

Dear Mr. Mistry:

Re: Stakeholder Advisory Committee Meeting #2 – Municipal Class Environmental Assessment for Oakville Water Purification Plant Capacity Increase from 109 to 130 ML/d, Town of Oakville, Ward 2, Our File: PR-2989A

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May 2, 2016

Teresa Labuda
Conservation Halton
2596 Britannia Road West
Burlington, ON
L7P 0G3

Public Works Department
Water & Wastewater Treatment
1151 Bronte Road
Oakville ON L6M 3L1

Dear Ms. Labuda:

Re: Stakeholder Advisory Committee Meeting #2 – Municipal Class Environmental Assessment for Oakville Water Purification Plant Capacity Increase from 109 to 130 ML/d, Town of Oakville, Ward 2, Our File: PR-2989A

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Halton Region
Municipal Class Environmental Assessment
Oakville Water Purification Plant Capacity Increase
Stakeholders Advisory Committee

Meeting Agenda

Date:	Wednesday, May 25th, 2016 - 9:30 a.m. to 12:00 p.m.		
Project Name:	Municipal Class Environmental Assessment for Oakville Water Purification Plant Capacity Increase	Project #	PR-2989A
Subject:	Stakeholders Advisory Committee Meeting #2		
Participants:	To Be Confirmed		
Location:	Halton Region's offices 1075 North Service Rd. West Unit 27 – Oak Room Oakville, Ontario	Prepared By:	JL Gaudet / Arun Jain
Distribution:	All participants		

1. Project Overview
2. Update on Supporting Studies
 - 2.1. Environmental (Natural Heritage) & Geomorphological Baseline
 - 2.2. Archaeological Assessment
 - 2.3. Sixteen Mile Creek Plume Delineation
 - 2.4. Baseline Plant Capacity Review
 - 2.5. Full-scale 130 ML/d Plant Test
3. Update on Standby Power Necessity Study
4. Recap of Alternative Solutions and Evaluation Process
5. Results of Evaluation and Preliminary Preferred Alternative
6. Project Timeline and Next Steps
7. Upcoming Public Information Centre

Regional Municipality of Halton

HEAD OFFICE: 1151 Bronte Rd, Oakville, ON L6M 3L1
905-825-6000 | Toll free: 1-866-442-5866

Municipal Class EA Study for Capacity Increase of Oakville Water Purification Plant to 130 ML/d

Stakeholder Advisory Committee Meeting #2

May 25, 2016



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Meeting Purpose

- Provide update on project and activities completed to date;
- Recap alternative solutions and evaluation process;
- Present results of evaluation and preliminary preferred alternative solution;
- Share information to be presented at Public Information Centre.



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Introductions



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3

Project Contact

Michelle Gillespie, P.Eng.
Project Manager
Region of Halton Public Works
Plant Capital & Engineering
1151 Bronte Road
Oakville, ON L6M 3L1

Tel: (905) 825-6000 Ext. 3309
E-mail: Michelle.Gillespie@halton.ca



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Agenda

- Project Overview
- Update on Supporting Studies
- Update on Standby Power Necessity Study
- Recap of Alternative Solutions and Evaluation Process
- Results of Evaluation and Preliminary Preferred Alternative
- Project Timeline and Next Steps
- Upcoming Public Information Centre



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Agenda

- **Project Overview**
- Update on Supporting Studies
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Problem Statement

- Project is a Municipal Class EA, Schedule B
- Clarified problem statement:

The purpose of the Class EA study is to identify a preferred solution for increasing the capacity of the Oakville WPP from 109 million litres per day (ML/d) to 130 ML/d to meet the water servicing objectives for the South Halton area in accordance with the Sustainable Halton Water and Wastewater Master Plan, 2011. The study is also investigating potential risks to security of supply including occasional raw water quality issues as the result of Sixteen Mile Creek influences.



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Problem Statement (from SAC 1)

Rerating of Plant Unit Operations to 130 ML/D	<ul style="list-style-type: none"> • Initiate and complete Class EA to allow for proper documentation and assessment of plant improvements undertaken to-date, including allowing for detailed public and agency review; • Initiate discussions with Ministry of Environment and Climate Change and demonstrate that plant can be rerated to 130 MLD; • Obtain required approvals.
Address high turbidity issue at the Raw Water Intake	<ul style="list-style-type: none"> • Review plant process based and intake modification based solution alternatives; • Complete Class EA if plant process based solution is adequate; • If intake modification is the preferred alternative, then upgrade Class EA to Schedule C and complete review of design alternatives.

*** FOR REFERENCE ONLY***

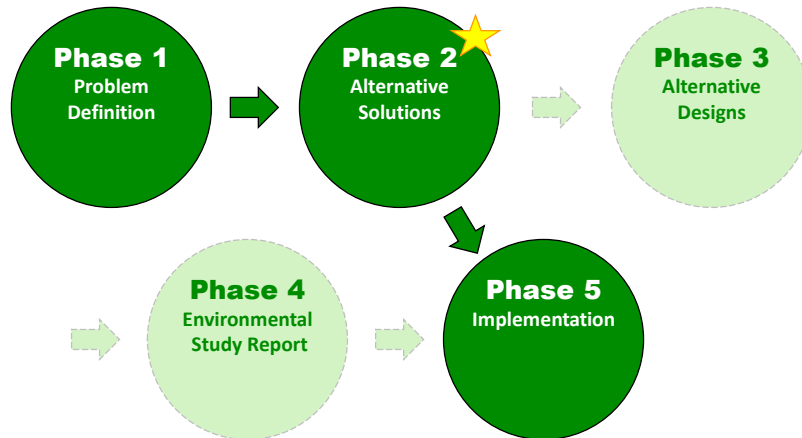


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EA Process



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EA Process



- Project Initiation
- Consultation and Communication Plan
- Notice of Commencement
- Stakeholder Advisory Committee Terms of Reference
- Technical Review
- Planning Review
- Environmental and Geomorphological Review
- Problem Definition



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EA Process



Completed

- Plant Rating Assessment
- Alternative Solutions
- SAC Meeting #1
- Evaluation Criteria
- Evaluation of Alternatives
- Selection of Preferred Alternative (preliminary)



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EA Process



Completed

- Confirmation of Preferred Alternative
- Confirmation of EA Schedule
- Ongoing Consultation Activities (PIC)

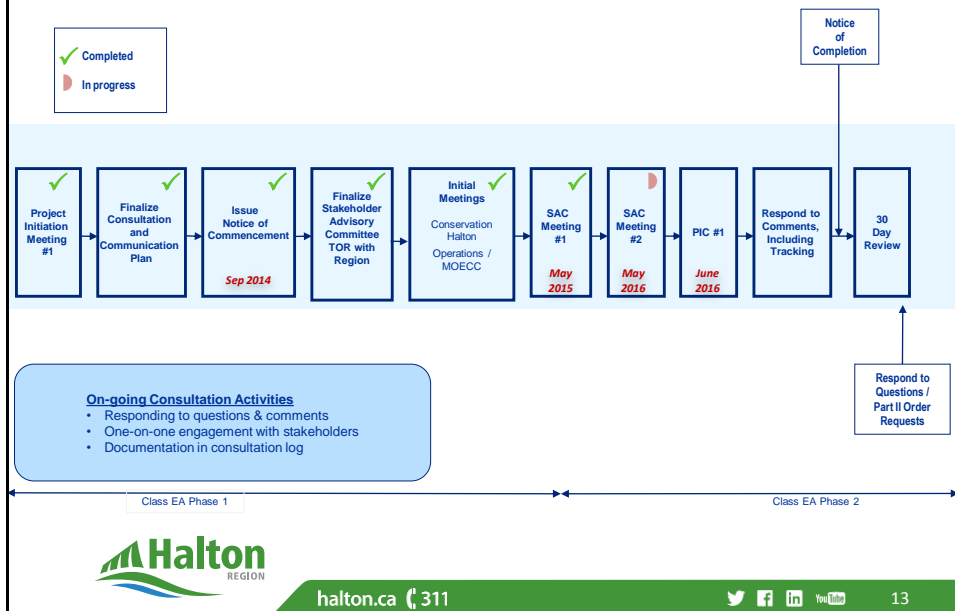


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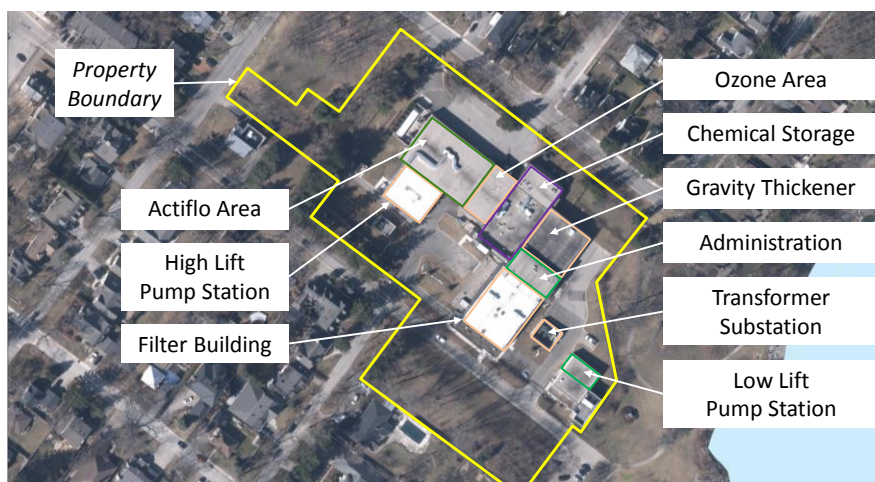


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Project Overview – Consultation



Project Site

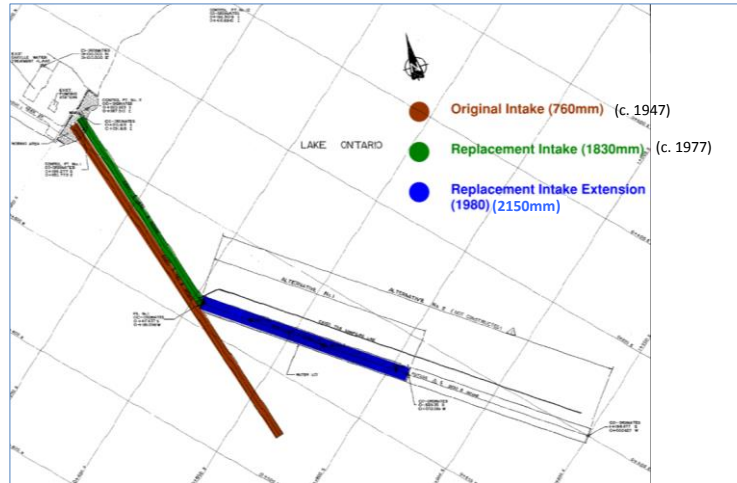


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Project Site



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Project Setting

- In well-established residential neighbourhood
- Bounded by parks to northwest and southeast
- Along waterfront trail
- “Construction fatigue” among local residents

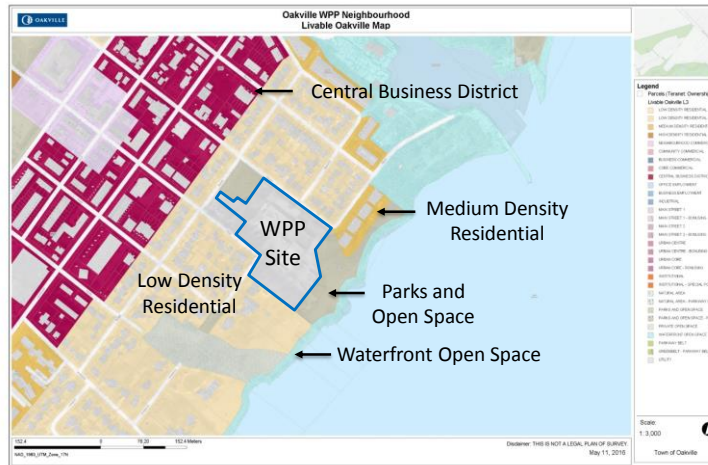


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Project Setting



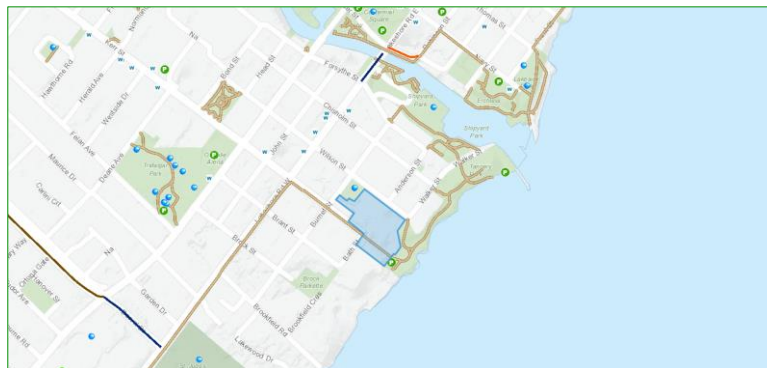
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Project Setting

- Trail network



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Project Setting

- **Tannery and Waterworks Parks Shoreline Improvements** (Schedule C Class EA)
 - Conducted by Town of Oakville
 - Identified shoreline improvements to stabilize and rehabilitate Tannery and Waterworks Parks
 - Physical overlap between projects (area between WPP and shoreline)
 - Anticipated construction: Fall 2016 / Winter 2017



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Agenda

- Project Overview
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Update on Supporting Studies

- Key Studies
 - Environmental (Natural Heritage) and Geomorphological Baseline Summary – **completed**
 - Terrestrial / Marine Archaeological - **completed**
 - Baseline Plant Capacity Review - **completed**
 - Sixteen Mile Creek Plume Delineation - **completed**
 - Plant Rerating Testing - **completed**



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Update on Supporting Studies

Environmental & Geomorphological Baseline

- No significant terrestrial features on site
- Fish habitat data limited
- Lake shoreline home to numerous fish species
 - 27 species identified in electrofishing surveys
 - Majority of fish caught include Emerald Shiner, Gizzard Shad, White Sucker, Brown Trout and the invasive Round Goby
 - Species at Risk records indicate Northern Bobwhite, Redside Dace and Shortnose Cisco in vicinity of plant/intake



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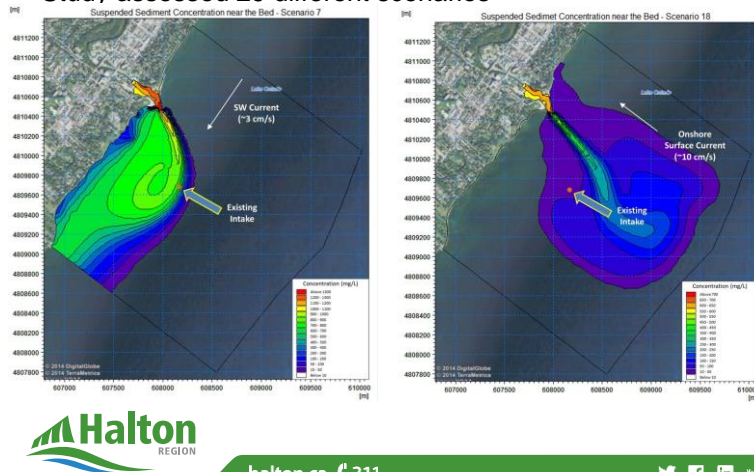


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Update on Supporting Studies

Sixteen Mile Creek Plume Delineation

- Plume study completed
- Study assessed 29 different scenarios



Update on Supporting Studies

Archaeological

- Stage 1 Terrestrial and Marine Archaeological Assessments (AA) completed
- Stage 1 Terrestrial
 - Found some archaeological potential within study area, but little to none on WPP site
 - Stage 2 AA required if works undertaken in areas of archaeological potential
- Stage 1 Marine
 - Wrecks identified within study area, but not in area where work could potentially take place
 - Additional marine AA required if works conducted offshore



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Update on Supporting Studies

Baseline Plant Capacity Review

- Desktop / field review of existing capacity of hydraulics, processes, and chemical systems
- Identified minor hydraulic challenges that were further investigated during the full-scale test run
- No major limitations regarding existing processes or chemical upgrades



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Update on Supporting Studies

Plant Rerating Testing

- Full-scale 130 ML/d test conducted on May 5, 2015
 - Initial ramp-up, ~ 3 hours of production at 130 ML/d, and a filter backwash
- Experienced challenges during backwash:
 - Low flow to Filter 1 (known issue at high flows)
 - Clearwell and reservoir storage depletion
- Output: List of recommendations (operational, investigative, minor in-plant capital)



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Agenda

- Project Overview
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- **Update on Standby Power Necessity Study**
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Update on Standby Power Necessity Study

- Study is separate and outside this Class EA
- Risk-based study using modified AWWA J100 *Risk and Resilience* standard
- System-based approach to comparing Supply vs. Demand using various permutations for ON/OFF status of the Region's three lake-based WPPs
- Preliminary recommendation: to implement some form of standby power (portable, service agreement or permanent solution) to address the risk



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Update on Standby Power Necessity Study

- Study noted that some short term loss of power could lead to potential for customers to be out of service
- Region is currently reviewing options for standby power, which will be part of a separate EA



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Agenda

- Project Overview
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- Update on Standby Power Necessity Study
- **Recap of Alternative Solutions and Evaluation Process**
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Proposed Alternatives

- Initial Screening of Alternative Solutions

- Do Nothing
- Rerate Existing WPP
 - Plant-based solution for turbidity
 - Extend intake solution for turbidity
 - New Intake solution for turbidity

- Expand Existing WPP

New since SAC #1

- Screened based on technical feasibility



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Proposed Alternatives

- Initial Screening of Alternative Solutions

- ~~Do Nothing~~
- Rerate Existing WPP
 - Plant-based solution for turbidity
 - Extend intake solution for turbidity
 - New Intake solution for turbidity

- ~~Expand Existing WPP~~

- Screened based on technical feasibility



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Proposed Screened Alternatives

Screened Alternative 2A – Rerating with In-Plant Solution:

- Minor upgrades to optimize plant performance to achieve up to 130 ML/d production capacity; plus
- **Plant-based solution** to address security of supply risks associated with raw water turbidity episodes

Screened Alternative 2B - Rerating with Extended Intake Solution:

- Minor upgrades to optimize plant performance to achieve up to 130 ML/d production capacity; plus
- **Extend existing intake** to address security of supply risks associated with raw water turbidity episodes

Screened Alternative 2C - Rerating with New Intake Solution

- Minor upgrades to optimize plant performance to achieve up to 130 ML/d production capacity; plus
- **Build new intake** to address security of supply risks associated with raw water turbidity episodes

For evaluation purposes, new intake portions installed via open cut

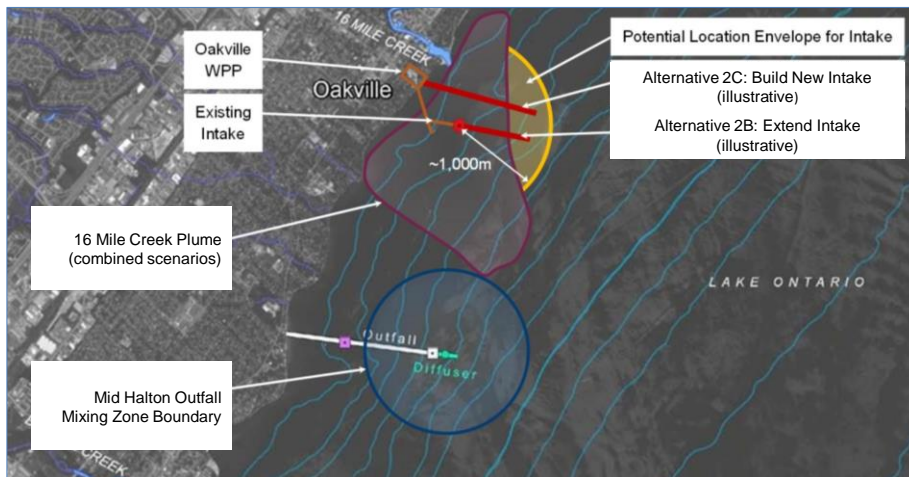


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Intake Alternatives



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Evaluation Process

- **Step 1:** Complete comparative evaluation of proposed screened alternatives against evaluation criteria under each category.
 - Rating system: High (●), Medium (◐) and Low (○) preference
- **Step 2:** Identify preliminary preferred solution based on reviewing advantages and disadvantages determined through Step 1.
- **Step 3:** Establish preferred solution following consultations with the Stakeholder Advisory Committee, regulatory agencies, and the public as necessary.



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Agenda

- Project Overview
- Update on Supporting Studies
- Update on Standby Power Necessity Study
- Recap of Alternative Solutions and Evaluation Process
- **Results of Evaluation and Preliminary Preferred Alternative**
- Project Timeline and Next Steps
- Upcoming Public Information Centre



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Evaluation Results – Natural Environment

Criteria	Alternative 2A – Minor upgrades / In-plant solution	Alternative 2B – Minor upgrades / Extend existing intake	Alternative 2C – Minor upgrades / Construct new intake
Natural Environment Summary	<p>●</p> <p>Because the in-plant solutions require no works outside of the plant's existing footprint, it would have no impact on aquatic or terrestrial systems.</p>	<p>◐</p> <p>While the extension of the intake pipe would have some disturbance on aquatic habitat, this alternative would have minimal impact on terrestrial systems.</p> <p>The potential for aquatic SAR disturbance and aquatic spawning grounds would require additional assessment in Phase 3.</p>	<p>○</p> <p>Installing a completely new intake would have the greatest disturbance on aquatic and terrestrial systems.</p> <p>The potential for disturbance of terrestrial and aquatic SAR and aquatic spawning grounds would require additional assessment and mitigation identification in Phase 3.</p>



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Evaluation Results – Social Environment

Criteria	Alternative 2A – Minor upgrades / In-plant solution	Alternative 2B – Minor upgrades / Extend existing intake	Alternative 2C – Minor upgrades / Construct new intake
Social Environment Summary	<p>●</p> <p>Of the three alternatives, installation of in-plant solutions would have the least disruptions to the public during construction.</p> <p>The in-plant solutions are not anticipated to cause any disturbances during operations.</p>	<p>◐</p> <p>Because construction activities will be focused off-shore, there would be less construction/staging disturbance compared with Alternative 2C, but more than Alternative 2A.</p> <p>On-shore staging for the construction and barging activities may result in some disruption and elevated activity at the staging location.</p> <p>The alternative is not anticipated to cause any disturbances during operations.</p>	<p>○</p> <p>Building a new intake would likely require construction activities in the vicinity of the WPP. This would likely disrupt public use of the local park and pathway and create local noise and vibration disturbances. It would also require increased traffic from construction.</p> <p>The alternative is not anticipated to cause any disturbances during operations.</p>



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Evaluation Results – Cultural Environment

Criteria	Alternative 2A – Minor upgrades / In-plant solution	Alternative 2B – Minor upgrades / Extend existing intake	Alternative 2C – Minor upgrades / Construct new intake
Cultural Environment Summary	<p>●</p> <p>Alternative 2A would have the least potential impact on archaeological resources.</p>	<p>◐</p> <p>Stage 2 marine archeological assessment (AA) required in Phase 3 to confirm presence of archaeological resources and mitigation/avoidance opportunities.</p> <p>The Stage 2 marine AA would cover a greater area compared to Alternative 2A but less than Alternative 2C.</p>	<p>○</p> <p>Stage 2 archeological assessment (AA) for marine and on-land areas required in Phase 3 to confirm presence of archaeological resources and mitigation/avoidance opportunities.</p> <p>The Stage 2 AA for marine and on-land areas for Alternative 2C would include a larger area compared to the other alternatives.</p>


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Evaluation Results – Technical

Criteria	Alternative 2A – Minor upgrades / In-plant solution	Alternative 2B – Minor upgrades / Extend existing intake	Alternative 2C – Minor upgrades / Construct new intake
Technical Summary	<p>◐</p> <p>(1) – (3) The alternative should be able to manage high turbidity events, but it would likely require operational increases to do so, such as increased use of chemicals and equipment.</p> <p>(4) Of all the alternatives, the in-plant solutions would pose the fewest technical challenges to implement.</p> <p>(5) The in-plant solutions would require the fewest number of approvals for implementation.</p>	<p>●</p> <p>(1) Alternatives 2B and 2C provide the greatest level of water supply security through the in-plant solutions plus relocation of the intake into deeper water.</p> <p>(2) Locating the intake crib beyond the boundary of turbid water and at a greater depth than existing will reduce the number of high turbidity events faced by the WPP.</p> <p>(3) Improved raw water quality should help reduce the WPP's demand on equipment and chemicals for water treatment.</p> <p>(4) The intake extension alternative would have more technical challenges than alternative 2A, but less than alternative 2C.</p> <p>(5) The number and complexity of approvals for this alternative would be more than alternative 2A, but less than alternative 2C. The increasing complexity of the approvals may increase the risk of scheduling delays and cost overruns.</p>	<p>◐</p> <p>(1) – (3) Same as Alternative 2B.</p> <p>(4) This alternative would have the most technical challenges related to its implementation/construction.</p> <p>(5) This alternative would likely require the greatest number of approvals and be more complex compared to the other alternatives. The increasing complexity of the approvals may increase the risk of scheduling delays and cost overruns.</p>


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Evaluation Results – Economic

Criteria	Alternative 2A – Minor upgrades / In-plant solution	Alternative 2B – Minor upgrades / Extend existing intake	Alternative 2C – Minor upgrades / Construct new intake
5a. Initial capital cost (2016 dollars)	●	◐	○
a) In-plant solutions			
b) Raw water intake	a) \$4.2 million	a) \$4.2 million	a) \$4.2 million
c) Total (a + b)	b) \$0 c) \$4.2 million	b) \$16 million c) \$20.2 million	b) \$28 million c) \$22.2 million
5b. Net Present Value of O&M and capital costs, represented in 2016 dollars	●	◐	○
a) 50 year span	a) \$90 million	a) \$102 million	a) \$114 million
b) 80 year span	b) \$114 million	b) \$128 million	b) \$135 million
c) 100 year span	c) \$119 million	c) \$132 million	c) \$141 million
Note: service life of intake asset taken to be 90, 80, and 100 years for the 50, 80, and 100 year span.			
Economic Summary	●	◐	○
	Alternative 2A has the lowest initial capital costs.	Alternative 2B has initial capital costs greater than Alternative 2A (\$17 million) and less than Alternative 2C (-\$13 million).	Alternative 2C has the greatest initial capital costs.


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Evaluation Results (Summary)

Criteria	Alternative 2A – Minor upgrades / In-plant solution	Alternative 2B – Minor upgrades / Extend existing intake	Alternative 2C – Minor upgrades / Construct new intake
<i>Natural Environment Summary</i>	●	◐	○
<i>Social Environment Summary</i>	●	◐	○
<i>Cultural Environment Summary</i>	●	◐	○
<i>Technical Summary</i>	◐	●	◐
<i>Economic Summary</i>	●	◐	○
Overall Evaluation Summary	●	◐	○


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Evaluation Results – Preferred Solution

Criteria	Alternative 2A – Minor upgrades / In-plant solution	Alternative 2B – Minor upgrades / Extend existing intake	Alternative 2C – Minor upgrades / Construct new intake
Overall Evaluation Summary	●	◐	○
Rationale	Alternative 2A is most preferred because it would have the lowest impacts with respect to the natural and social environment while at the same time adequately addressing security of supply risks associated with raw water turbidity. It also has the lowest cost.	Alternative 2B is moderately preferred . It would provide greater security of supply with respect to risks associated with raw water turbidity than Alternative 2A and be easier and less costly to construct compared to Alternative 2C. However, compared to Alternative 2A it would also be more expensive and its construction be more disruptive to the natural and social environment.	Alternative 2C is least preferred because, while it and Alternative 2B would provide the greatest security of supply with respect to risks associated with raw water turbidity, construction of the new intake would have the greatest impact on the natural and social environment. Alternative 2C would also be the most technically challenging and have the highest cost.



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Agenda

- Project Overview
- Update on Supporting Studies
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- Recap of Alternative Solutions and Evaluation Process
- Results of Evaluation and Preliminary Preferred Alternative
- **Project Timeline and Next Steps**
- Upcoming Public Information Centre



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Completed Steps

- ✓ 1. Distribute Technical Memorandum (TM) #6 to internal stakeholders, including Oakville WPP operators, staff.
- ✓ 2. Hold Internal Stakeholder Workshop to review and obtain feedback on the proposed alternatives, evaluation criteria and evaluation process.
- ✓ 3. Update TM #6 based on the results of Internal Stakeholder Workshop.
- ✓ 4. Undertake additional studies/information gathering required to complete the comparative evaluation (including: Performance Assessment Report, Stage 1 Archaeology Assessments, Environmental/ Geomorphological Study, Sixteen Mile Creek Plume Delineation Study).



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Completed Steps

- ✓ 5. Identify preliminary preferred solution, based on final comparative evaluation results.
- ✓ 6. Hold Internal Stakeholder Workshop to present draft comparative evaluation results for review and comment, in order to finalize.



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Next Steps

- ➡ 1. Present the same to Stakeholder Advisory Committee, followed by Public Information Centre (**June 2016**). Also, complete consultations with regulatory agencies and the public as required.
2. Finalize preferred solution and present in the Project File Report (**Summer 2016**).



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Agenda

- Project Overview
- Update on Supporting Studies
- Update on Standby Power Necessity Study
- Recap of Alternative Solutions and Evaluation Process
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- **Upcoming Public Information Centre**



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Public Information Centre

- Tentative Date: Thursday, June 9th, 2016
- Time: 6:30 p.m. to 8:30 p.m.
- Location: St. James Elementary School (Gymnasium)
255 Morden Road
Oakville



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Final Thoughts?



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Jean Louis Gaudet

From: Connell, Mark <Mark.Connell@halton.ca>
Sent: September-14-16 9:35 AM
To: Andrews, Dave; Boyd, Suzanne; Gillespie, Michelle; 'pbond@hrca.on.ca'; 'rmistry@oakville.ca'
Cc: Hunter, Chris <Chris.Hunter@ghd.com> (Chris.Hunter@ghd.com); Arun Jain; Jean Louis Gaudet
Subject: Minutes of Stakeholder Advisory Committee Meeting #2 - Municipal Class EA for Oakville WPP - PR-2989A
Attachments: 2016 08 31 Oakville WPP Class EA - SAC 2 Minutes (w attach) (DRAFT).pdf

Good Morning,

Please find attached the draft meeting minutes for the Stakeholder Advisory Committee meeting #2 for the Oakville Water Purification Plant, held on May 25, 2016.

Please advise if there are any errors or omissions.

Thank you all for your participation in this process. Best regards,

Mark Connell, P.Eng.

Project Manager III

Water & Wastewater Treatment

Public Works

Halton Region

905-825-6000, ext. 7322 | 1-866-442-5866



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Thank you

Jean Louis Gaudet

From: Connell, Mark <Mark.Connell@halton.ca>
Sent: September-14-16 9:37 AM
To: Duddeck, Cathy
Cc: Jean Louis Gaudet
Subject: Minutes of Stakeholder Advisory Committee Meeting #2 - Municipal Class EA for Oakville WPP - PR-2989A
Attachments: 2016 08 31 Oakville WPP Class EA - SAC 2 Minutes (w attach) (DRAFT).pdf

Good Morning Councillor Duddeck,

Please find attached the draft meeting minutes for the Stakeholder Advisory Committee meeting #2 for the Oakville Water Purification Plant, held on May 25, 2016.

Please advise if there are any errors or omissions.

I would like to thank you very much for your participation in this process. Best regards,

Mark Connell, P.Eng.

Project Manager III

Water & Wastewater Treatment

Public Works

Halton Region

905-825-6000, ext. 7322 | 1-866-442-5866



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Thank you

Jean Louis Gaudet

From: Connell, Mark <Mark.Connell@halton.ca>
Sent: September-14-16 9:37 AM
To: 'ray.chisholm@oakville.ca'
Cc: Jean Louis Gaudet
Subject: Minutes of Stakeholder Advisory Committee Meeting #2 - Municipal Class EA for Oakville WPP - PR-2989A
Attachments: 2016 08 31 Oakville WPP Class EA - SAC 2 Minutes (w attach) (DRAFT).pdf

Good Morning Councillor Chisholm,

Please find attached the draft meeting minutes for the Stakeholder Advisory Committee meeting #2 for the Oakville Water Purification Plant, held on May 25, 2016.

Please advise if there are any errors or omissions.

I would like to thank you very much for your participation in this process. Best regards,

Mark Connell, P.Eng.

Project Manager III

Water & Wastewater Treatment

Public Works

Halton Region

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Thank you



Minutes

July 7, 2016

Project	Class EA Study for the Oakville Water Purification Plant Including the Overall Re-rating of the Plant to 130 ML/d	From Tel	From: Jean-Louis Gaudet 905-793-9809 x 2344
Subject	Stakeholder Advisory Committee #2	Date/Time	May 25, 2016 / 9:30 am
Venue/Date/Time	1075 North Service Rd. West Oakville, ON	GHD ref Client ref	8811884 PR-2989
Attendees	Dave Andrews, Suzanne Boyd, Michelle Gillespie (Halton Region) Paul Bond (Conservation Halton) Councillor Cathy Duddeck, Councillor Ray Chisholm, Rakesh Mistry (Town of Oakville) Chris Hunter (GHD) Arun Jain, Jean-Louis (JL) Gaudet (exp)	Copies to	All attendees

ITEM	MINUTES	ACTION
A	WELCOME AND INTRODUCTION	
A.1	<ul style="list-style-type: none">Michelle welcomed all of the participants and introduced Chris Hunter (CH).CH welcomed everyone and summarized the purpose of the meeting, which was to provide an update on the project to the Stakeholder Advisory Committee (SAC), present the results of the evaluation process, and obtain the SAC's feedback.CH then had everyone introduce themselves.	
B	PROJECT OVERVIEW	
B.1	<ul style="list-style-type: none">Jean-Louis Gaudet (JLG) reviewed the meeting agenda and then provided an overview of the project, including the updated problem statement and the Class Environmental Assessment (EA) Process being followed.JLG reviewed the setting for the project, including a description of the local neighbourhood and features of the Oakville water Purification Plant (WPP) and intake.	

ITEM	MINUTES	ACTION
	<ul style="list-style-type: none"> Rakesh Mistry (RM) provided an update on the Town's Tannery and Waterworks Parks project. He noted that the approvals and permits for the project are expected shortly and that construction would begin in the winter. 	
C	UPDATE ON SUPPORTING STUDIES	
C.1	<ul style="list-style-type: none"> CH and JLG provided updates on the project's key studies, including the Environmental (Natural Heritage) and Geomorphological Baseline, Terrestrial / Marine Archaeological, Baseline Plant Capacity Review, Sixteen Mile Creek Plume Delineation, and Plant Rating Testing. Paul Bond (PB) asked if the Plume Delineation report is available. Michelle Gillespie (MG) said that it can be forwarded to Conservation Halton. Councilor Ray Chisholm (CRC) asked whether the increase in water production would lead to an increase in sediment in the drinking water system. Dave Andrews (DA) and CH noted that it would not. They explained how sediment in the drinking water system that arises during periods of higher flow is due to the scouring of settled sediment in the pipes as flow is increased. It was noted that regular flushing and cleaning of pipes is undertaken as a common practice by the Region to reduce sediment accumulation. CRC asked whether there would be additional chlorine in the system and whether residents near the WPP would notice it, as they do now. CH noted that chlorine levels in drinking water are typically higher the closer you are to water purification plant (but still within acceptable levels) so that the chlorine can be effective at the farthest reaches in the distribution system. RM asked what the average day usage would be, if the maximum is 130 ML/day. CH noted that it would typically be half that, but that the Region has the flexibility to adjust that amount because the Region's water distribution system is integrated and water can be treated at varying flow rates at the Buloak, Burlington and Oakville WPPs to satisfy the needs of the entire Region. RM asked if the Oakville WPP upgrade would be sufficient to meet the north Oakville build-out. DA noted the Oakville WPP upgrade is not for the purpose of meeting the ultimate build-out, as that will be met through upgrades to other water purification plants throughout the water distribution system. 	Project Team
D	UPDATE ON STANDBY POWER NECESSITY STUDY	
D.1	<ul style="list-style-type: none"> CH provided an update on the Region's Standby Power Necessity Study. He noted that the study is a separate study and outside of this Class EA. He reported that the study assessed the risks to the Region's drinking water system from possible power outages, given that Oakville does not have standby power while the other two plants (Burlington and Buloak) do. The study concluded that short term 	

ITEM	MINUTES	ACTION
	<p>power loss could potentially lead to some customers losing their water service. Subsequently, the study's preliminary recommendation is to implement some form of standby power (portable, service agreement or permanent solution) to address the risk.</p> <ul style="list-style-type: none"> There was positive agreement from the SAC members on the standby power necessity study's preliminary recommendation. 	Information
E	RECAP OF ALTERNATIVE SOLUTIONS & EVALUATION PROCESS	
E.1	<ul style="list-style-type: none"> JLG reviewed the alternatives being considered and the evaluation process. He noted that the evaluation process included an initial screening of the three alternative solutions based on technical feasibility. The three alternatives screened included: <ul style="list-style-type: none"> Do Nothing; Rerate the existing WPP; or Expand the existing WPP. He described how the Do Nothing option was screened out because it would not meet the problem statement and that physical expansion of the WPP was screened out due to lack of space on the property to accommodate the expansion. He presented the three sub-alternatives for the rerating alternative that were carried forward. All three sub-alternatives include minor upgrades to optimize plant performance to achieve up to 130 ML/d production capacity, but they differed in how they would manage turbidity. The turbidity solution included the following sub-alternatives: <ul style="list-style-type: none"> Plant based solutions; Extending the existing intake; or Building a new intake. JLG described the evaluation process, noting that it was a comparative evaluation of the three sub-alternatives against a suite of evaluation criteria, which had been discussed with SAC members in the SAC meeting #1 and with Region water operations staff. 	
F	RESULTS OF EVALUATION & PRELIMINARY PREFERRED ALTERNATIVE	
	<ul style="list-style-type: none"> JLG provided a summary of the evaluation results for each criteria grouping: Natural Environment, Social Environment, Cultural Environment, Technical, and Economic. He reported that Alternative 2A (re-rating the WPP with in-plant solutions to address turbidity) was the preliminary preferred alternative. There was agreement among the SAC members with the evaluation results. Councilor Cathy Dudduck (CCD) noted that the public would be thrilled that there would be minimal construction. She said the 	Information

ITEM	MINUTES	ACTION
	process and evaluation shows that the project team completed a comprehensive review of the factors in completing the evaluation.	
G	PROJECT TIMELINE AND NEXT STEPS	
	<ul style="list-style-type: none"> JLG reviewed the steps completed to date and the next steps in the process, which include: <ul style="list-style-type: none"> Presenting this information in June 2016 to the public at a Public Information Centre (PIC); and Finalizing the preferred solution and presenting the Project File Report for public review (Summer 2016). 	
H	UPCOMING PUBLIC INFORMATION CENTRE	
	<ul style="list-style-type: none"> JLG advised that the upcoming PIC would be held on Thursday, June 9th, 2016 from 6:30 p.m. to 8:30 p.m. at the St. James Elementary School, 255 Morden Road, Oakville. He noted that a simplified version of what was presented to the SAC is what would be displayed at the PIC. The PIC format would be a drop-in open house style, with no formal presentation. A notice for the PIC would be advertised twice in the Oakville Beaver, hand-delivered to residents in the area, and e-mailed to the project distribution list. RM suggested that this information be shared with the Town's Roads staff, as they were waiting to complete some of their work once a decision had been made regarding the WPP. 	Region

This communication constitutes our understanding of the items discussed and any conclusions reached. If there are any clarifications or corrections, please advise this author, in writing within four (4) working days of receipt.

Submitted by

Jean-Louis Gaudet / Arun Jain, exp. Services Inc.