APPENDIX I

Appendix I.1 Agency and Public Correspondence and Appendix I.2 Correspondence to Individuals for Property Access

Appendix I.1 Agency and Public Correspondence

Ministry of the Environment, Conservation and Parks
Drinking Water and Environmental Compliance Division
West Central Region

119 King Street West
12th Floor
Hamilton, Ontario L8P 4Y7
Tel.: 905 521-7640
Fax: 905 521-7820

Ministère de l'Environnement de la Protection de la nature et des Parcs
Division de la conformité en matière d'eau potable et d'environnement
Direction régionale du Centre-Ouest

119 rue King Ouest
12e étage
Hamilton (Ontario) L8P 4Y7
Tél. : 905 521-7640
Téléc. : 905 521-7820

Ontario

October 24, 2018

Winston Wang, M. A. Sc., P. Eng.
Project Manager, Water & Wastewater Planning Section
Hamilton Water, Public Works Department, City of Hamilton
77 James Street North, Suite 400, Hamilton, ON L8R 2K3

Dear Mr. Wang:

Re: Draft Project File
Elevated Water Storage Facility and Pumping Station of Pressure District 7

MECP staff has reviewed the Draft Project File (DPF) and offer the following comments for your consideration and action as may be appropriate.

It is fully understood that the purpose of this study has been to determine the optimal means of providing additional storage by means of an elevated water storage facility (EWSF), and pumping capacity to support the future growth in Pumping Districts 7 and 23 along with making system and operational improvements. It is further understood that 5 locations for the EWSF and 3 locations for the pumping station were evaluated.

While preferred locations for both the SWSF and the pumping station were determined based on the application of the evaluation criteria, the DPF indicates that some additional work must still be completed. Is the City confident that a sufficient level of assessment has been done to fully demonstrate the appropriateness of the preferred locations for both the EWSF and pumping station? (page 2 of DPF – Executive Summary)

Once you are confident that the Project File is complete and you are ready to issue the Notice of Completion, please take note that changes were made to the process for requesting a Part II Order by the Minister which need to be correctly stated on the Notice. As of July 1st 2018, a standardized form is to be used by anyone who believes that the environmental assessment process was incomplete, incorrect in that it failed to follow the required process. The required form can be found on the Forms Repository website (http://www.forms.ssb.gov.on.ca/) by searching "Part II Order" or "012-2206E (the form ID number). Once completed, the form is then to be sent to both the Minister and Director of the Environmental Assessment and Permissions Branch. (page 1 of DPF) Their addresses are:

Minister
Ministry of the Environment, Conservation and Parks
Floor 11
77 Wellesley St. West
Toronto, ON M7A 2T5
Minister.mecp@ontario.ca

Director, Environmental Assessment and Permissions Branch
Ministry of the Environment, Conservation and Parks
135 St. Clair Ave. West, 1st Floor
Toronto, ON M4V 1P5
MOECCpermissions@ontario.ca

As noted in the table on page 42, a number of approvals/permits will be required from various agencies to enable the implementation of the project. You have correctly noted the need to amend Drinking Water Works Permit #005-201 so that is also includes this new infrastructure. It is assumed that you have cited a PTTW in case it is needed for construction-related dewatering? I note that this hasn't been referenced in section 14.1 on page 43.

We also reviewed the DPF in view of Source Protection and offer the following comments:

- The Clean Water Act, 2006 aims to protect existing and future sources of drinking water. To achieve this, several types of vulnerable areas are delineated around surface water intakes and wellheads for every municipal drinking water system that is located in a source protection area. As per the most recent amendments to the Municipal Engineers Association (MEA) Class EA parent document approved October 2015, proponents undertaking a Municipal Class EA project must identify early in the process whether a project is occurring within a source water protection vulnerable area.
- We note that section 2.2.6 of the project file report and Appendix B correctly identify the applicable source protection areas, and that the study area is located far from any wellhead protection areas and intake protection zones for municipal residential drinking water systems. Appendix B of the project file report notes that the Source Protection Information Atlas was consulted and correctly notes that some of the alternative sites may be located on highly vulnerable aquifers.
- MEA Class EA projects may also include activities that, if located in a vulnerable area, may be considered a threat to sources of drinking water (i.e. have the potential to adversely affect the quality or quantity of drinking water sources) and could be subject to policies in a source protection plan. However, as noted in the DPF, there are no source protection plan policies that apply in the project study area. We note that the proponent has identified

that a spill management plan (sections 4.3.2 and 5.3.2) should be developed and put in place for the construction phase of the project. These types of mitigation measures also prevent contamination of the aquifer and protect sources of drinking water for private wells.

This concludes our comments on the draft Project File. Should you have any questions, please contact me at (905) 521-7864 or at Barbara.slattery@ontario.ca

With regards,

Barbara Slattery
EA/Planning Coordinator

-----Original Message-----
From: Slattery, Barbara (MECP) [mailto:barbara.slattery@ontario.ca]
Sent: October 24, 2018 4:00 PM
To: Wang, Winston <Winston.Wang@hamilton.ca>
Subject: RE: PD7 EA DRAFT Project File

Hello Winston, hope you are well. Attached are our comments for your review and consideration

Barb Slattery, EA/Planning Coordinator
Ministry of the Environment, Conservation and Parks West Central Region
(905) 521-7864

-----Original Message-----
From: Wang, Winston [mailto:Winston.Wang@hamilton.ca]
Sent: October 17, 2018 7:57 AM
To: Slattery, Barbara (MECP)
Cc: Ehrenberg, Udo
Subject: FW: PD7 EA DRAFT Project File
Importance: High

Good Morning Barbara,

As per MOECP requirement, the City of Hamilton is sending the draft Project File of Municipal Class EA for the Elevated Water Storage Facility and Pumping Station of Pressure District 7 for the Ministry to review and comment. You can have access to the report by following the link below:

https://na01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fftp.coleengineering.net%2F%3FShareToken%3D5DF468F95D68DB54CD926A5D243CD3C632DD1E82&data=02%7C01%7Cbarbara.slattery%40ontario.ca%7Cf5c40f2802c24cb699e608d6342794ea%7Ccddc1229ac2a4b97b78a0e5cacb5865c%7C0%7C0%7C636753741933546992&sdata=j6dJiHP7OjmSLvbGwJfcPPyevrzkkyj8TqacLj6tAi4%3D&reserved=0

If it does not work, please copy the original link below and paste it in Google or IE Explore to get the report as it is too big to send through attachment. The City is expecting MOECP comments within one month.

If you have any questions, please let me know.

Regards,

Winston Wang, M. A. Sc., P. Eng.
Project Manager, Water & Wastewater Planning Water and Wastewater Systems Planning Section
Hamilton Water, Public Works Department, City of Hamilton
77 James Street North, Suite 400, Hamilton, ON L8R 2K3
Tel: 905-546-2424 Ext. 4092 Fax: 905-546-4491 Email: winston.wang@hamilton.ca

Ministry of the Environment and Climate Change
Drinking Water and Environmental Compliance Division
West Central Region

119 King Street West
12th Floor
Hamilton, Ontario L8P 4Y7
Tel.: 905 521-7640
Fax: 905 521-7820

Ministère de l'Environnement et de l'Action en matière de changement climatique
Division de la conformité en matière d'eau potable et d'environnement
Direction régionale du Centre-Ouest

119 rue King Ouest
12e étage
Hamilton (Ontario) L8P 4Y7
Tél. : 905 521-7640
Téléc. : 905 521-7820

Ontario

June 25, 2018

Mr. Winston Wang
City of Hamilton
Via Email Only

Dear Mr. Wang:

Re: Elevated Water Storage Facility and Pumping Station for Pressure District 7
City of Hamilton
MEA Class EA Response to Notice of Commencement

This letter is in response to the Notice of Commencement for the above noted project. The Ministry of the Environment and Climate Change (MOECC) acknowledges that the City of Hamilton has indicated that its study is following the Schedule "B" process as per the MEA Class EA in order to determine a preferred site for an elevated water storage facility and pumping station located within pressure district 7.

Based on the information submitted, and using the database available to us, we have prepared mapping of the study area (attached to these comments) to show features located within the study area that should be taken into account during the course of the EA study. These include numerous wells (we acknowledge that many may no longer be functioning wells), two waste sites in the far southwestern corner of the study area, and a few uses that are generators of hazardous waste.

Also, once the EA has been completed, the new infrastructure will be subject to the requirements of the Safe Drinking Water Act. A Schedule C Permit Application to the Director, Aziz Ahmed for Woodward Drinking Water System 220003118 will be required. The following link provides the required information:
https://www.ontario.ca/page/guide-applying-drinking-water-works-permit-amendments-licence-amendments

The Crown has a legal duty to consult Aboriginal communities when it has knowledge, real or constructive, of the existence or potential existence of an Aboriginal or treaty right and contemplates conduct that may adversely impact that right. Before the City of Hamilton may proceed with this project, the Crown must ensure that its duty to consult has been fulfilled, where such a duty is triggered. Although the duty to consult with Aboriginal peoples is a duty of the Crown, the Crown may delegate procedural aspects of consultation to project proponents while retaining oversight of the process.

Your proposed project may have the potential to affect Aboriginal or treaty rights protected under section 35 of Canada's *Constitution Act 1982*. Where the Crown's duty to consult is

triggered in relation to your proposed project**, the MOECC is delegating the procedural aspects of rights-based consultation to you through this letter.** The Crown intends to rely on the delegated consultation process in discharging its duty to consult and maintains the right to participate in the consultation process as it sees fit.

Based on information you have provided to date and the Crown`s preliminary assessment you are required to consult with the following communities who have been identified as potentially affected by your proposed project.

COMMUNITY	CONTACT
Six Nations of the Grand River Territory 1695 Chiefswood Road P.O. Box 5000 Ohsweken, ON N0A 1M0	Chief Ava Hill Tel: (519)445-2201 Email: arleenmaracle@sixnations.ca and lonnybomberry@sixnations.ca
Haudeosaunee Confederacy Council 2634 6th Line Road R.R. #2 Ohsweken, ON N0A 1M0	Chief Allan McNaughton **Haudenosaunee Development Institute** Email: hdi2@bellnet.ca Phone: 519-445-4222
Mississaugas of the New Credit 2789 Mississauga Road RR #6 Hagersville, ON N0A 1H0	Chief Stacey LaForme Email: Stacey.LaForme@newcreditfirstnation.com Phone: 905-768-1133 ext. 240
Metis Nation of Ontario Metis Consultation Unit 500 Old St. Patrick Street, Unit 3 Ottawa, ON K1N 9G4	Tel: (613) 798-1488 Fax: (613)725-4225 www.metisnation.org/home.aspx

Steps that you may need to take in relation to Aboriginal consultation for your proposed project are outlined in the "Code of Practice for Consultation in Ontario's Environmental Assessment Process" which can be found at the following link: https://www.ontario.ca/document/consultation-ontarios-environmental-assessment-process

Additional information related to Ontario's *Environmental Assessment Act* is available online at: www.ontario.ca/environmentalassessments

You must contact the Director of Environmental Assessment and Permissions Branch (Director) under the following circumstances subsequent to initial discussions with the communities identified by MOECC:

- Aboriginal or treaty rights impacts are identified to you by the communities;
- You have reason to believe that your proposed project may adversely affect an Aboriginal or treaty right;

- Consultation has reached an impasse;
- A Part II Order request or elevation request is expected.

The Director can be notified either by email, mail or fax using the information provided below:

Email:	MOECCpermissions@ontario.ca Subject: Potential Duty to Consult
Fax:	416-314-8452
Address:	Environmental Assessment and Permissions Branch 135 St. Clair Avenue West, 1st Floor Toronto, ON, M4V 1P5

The MOECC will then assess the extent of any Crown duty to consult for the circumstances and will consider whether additional steps should be taken, including what role the City of Hamilton will be asked to play should additional steps and activities be required.

A draft copy of the Project File can be sent to me for review before the City of Hamilton issues its notice of completion of the final report. Please allow a minimum of 30 days for MOECC's technical reviewers to provide comments on the draft Project File.

When the Project File is finalized, please send the Notice of Completion and final documentation to me.

Should you or any members of your project team have any questions regarding the material above, please contact me directly at (905) 521-7864 or by email at Barbara.slattery@ontario.ca.

Yours truly,

Barbara Slattery

EA/Planning Coordinator

cc. Paul Widmeyer, District Manager (A), Hamilton District Office (FYI)

A PROPONENT'S INTRODUCTION TO THE DELEGATION OF PROCEDURAL ASPECTS OF CONSULTATION WITH ABORIGINAL COMMUNITIES

DEFINITIONS

The following definitions are specific to this document and may not apply in other contexts:

Aboriginal communities – the First Nation or Métis communities identified by the Crown for the purpose of consultation.

Consultation – the Crown's legal obligation to consult when the Crown has knowledge of an established or asserted Aboriginal or treaty right and contemplates conduct that might adversely impact that right. This is the type of consultation required pursuant to s. 35 of the *Constitution Act, 1982*. Note that this definition does not include consultation with Aboriginal communities for other reasons, such as regulatory requirements.

Crown – the Ontario Crown, acting through a particular ministry or ministries.

Procedural aspects of consultation – those portions of consultation related to the process of consultation, such as notifying an Aboriginal community about a project, providing information about the potential impacts of a project, responding to concerns raised by an Aboriginal community and proposing changes to the project to avoid negative impacts.

Proponent – the person or entity that wants to undertake a project and requires an Ontario Crown decision or approval for the project.

I. PURPOSE

The Crown has a legal duty to consult Aboriginal communities when it has knowledge of an existing or asserted Aboriginal or treaty right and contemplates conduct that may adversely impact that right. In outlining a framework for the duty to consult, the Supreme Court of Canada has stated that the Crown may delegate procedural aspects of consultation to third parties. This document provides general information about the Ontario Crown's approach to delegation of the procedural aspects of consultation to proponents.

This document is not intended to instruct a proponent about an individual project, and it does not constitute legal advice.

II. WHY IS IT NECESSARY TO CONSULT WITH ABORIGINAL COMMUNITIES?

The objective of the modern law of Aboriginal and treaty rights is the *reconciliation* of Aboriginal peoples and non-Aboriginal peoples and their respective rights, claims and interests. Consultation is an important component of the reconciliation process.

The Crown has a legal duty to consult Aboriginal communities when it has knowledge of an existing or asserted Aboriginal or treaty right and contemplates conduct that might adversely impact that right. For example, the Crown's duty to consult is triggered when it considers issuing a permit, authorization or approval for a project which has the potential to adversely impact an Aboriginal right, such as the right to hunt, fish, or trap in a particular area.

The scope of consultation required in particular circumstances ranges across a spectrum depending on both the nature of the asserted or established right and the seriousness of the potential adverse impacts on that right.

Depending on the particular circumstances, the Crown may also need to take steps to accommodate the potentially impacted Aboriginal or treaty right. For example, the Crown may be required to avoid or minimize the potential adverse impacts of the project.

III. THE CROWN'S ROLE AND RESPONSIBILITIES IN THE DELEGATED CONSULTATION PROCESS

The Crown has the responsibility for ensuring that the duty to consult, and accommodate where appropriate, is met. However, the Crown may delegate the procedural aspects of consultation to a proponent.

There are different ways in which the Crown may delegate the procedural aspects of consultation to a proponent, including through a letter, a memorandum of understanding, legislation, regulation, policy and codes of practice.

If the Crown decides to delegate procedural aspects of consultation, the Crown will generally:

- Ensure that the delegation of procedural aspects of consultation and the responsibilities of the proponent are clearly communicated to the proponent;
- Identify which Aboriginal communities must be consulted;
- Provide contact information for the Aboriginal communities;
- Revise, as necessary, the list of Aboriginal communities to be consulted as new information becomes available and is assessed by the Crown;
- Assess the scope of consultation owed to the Aboriginal communities;

- Maintain appropriate oversight of the actions taken by the proponent in fulfilling the procedural aspects of consultation;
- Assess the adequacy of consultation that is undertaken and any accommodation that may be required;
- Provide a contact within any responsible ministry in case issues arise that require direction from the Crown; and
- Participate in the consultation process as necessary and as determined by the Crown.

IV. THE PROPONENT'S ROLE AND RESPONSIBILITIES IN THE DELEGATED CONSULTATION PROCESS

Where aspects of the consultation process have been delegated to a proponent, the Crown, in meeting its duty to consult, will rely on the proponent's consultation activities and documentation of those activities. The consultation process informs the Crown's decision of whether or not to approve a proposed project or activity.

A proponent's role and responsibilities will vary depending on a variety of factors including the extent of consultation required in the circumstance and the procedural aspects of consultation the Crown has delegated to it. Proponents are often in a better position than the Crown to discuss a project and its potential impacts with Aboriginal communities and to determine ways to avoid or minimize the adverse impacts of a project.

A proponent can raise issues or questions with the Crown at any time during the consultation process. If issues or concerns arise during the consultation that cannot be addressed by the proponent, the proponent should contact the Crown.

a) What might a proponent be required to do in carrying out the procedural aspects of consultation?

Where the Crown delegates procedural aspects of consultation, it is often the proponent's responsibility to provide notice of the proposed project to the identified Aboriginal communities. The notice should indicate that the Crown has delegated the procedural aspects of consultation to the proponent and should include the following information:

- a description of the proposed project or activity;
- mapping;
- proposed timelines;
- details regarding anticipated environmental and other impacts;
- details regarding opportunities to comment; and
- any changes to the proposed project that have been made for seasonal conditions or other factors, where relevant.

Proponents should provide enough information and time to allow Aboriginal communities to provide meaningful feedback regarding the potential impacts of the project. Depending on the nature of consultation required for a project, a proponent also may be required to:

- provide the Crown with copies of any consultation plans prepared and an opportunity to review and comment;
- ensure that any necessary follow-up discussions with Aboriginal communities take place in a timely manner, including to confirm receipt of information, share and update information and to address questions or concerns that may arise;
- as appropriate, discuss with Aboriginal communities potential mitigation measures and/or changes to the project in response to concerns raised by Aboriginal communities;
- use language that is accessible and not overly technical, and translate material into Aboriginal languages where requested or appropriate;
- bear the reasonable costs associated with the consultation process such as, but not limited to, meeting hall rental, meal costs, document translation(s), or to address technical & capacity issues;
- provide the Crown with all the details about potential impacts on established or asserted Aboriginal or treaty rights, how these concerns have been considered and addressed by the proponent and the Aboriginal communities and any steps taken to mitigate the potential impacts;
- provide the Crown with complete and accurate documentation from these meetings and communications; and
- notify the Crown immediately if an Aboriginal community not identified by the Crown approaches the proponent seeking consultation opportunities.

b) What documentation and reporting does the Crown need from the proponent?

Proponents should keep records of all communications with the Aboriginal communities involved in the consultation process and any information provided to these Aboriginal communities.

As the Crown is required to assess the adequacy of consultation, it needs documentation to satisfy itself that the proponent has fulfilled the procedural aspects of consultation delegated to it. The documentation required would typically include:

- the date of meetings, the agendas, any materials distributed, those in attendance and copies of any minutes prepared;
- the description of the proposed project that was shared at the meeting;
- any and all concerns or other feedback provided by the communities;
- any information that was shared by a community in relation to its asserted or established Aboriginal or treaty rights and any potential adverse impacts of the proposed activity, approval or disposition on such rights;

- any proposed project changes or mitigation measures that were discussed, and feedback from Aboriginal communities about the proposed changes and measures;
- any commitments made by the proponent in response to any concerns raised, and feedback from Aboriginal communities on those commitments;
- copies of correspondence to or from Aboriginal communities, and any materials distributed electronically or by mail;
- information regarding any financial assistance provided by the proponent to enable participation by Aboriginal communities in the consultation;
- periodic consultation progress reports or copies of meeting notes if requested by the Crown;
- a summary of how the delegated aspects of consultation were carried out and the results; and
- a summary of issues raised by the Aboriginal communities, how the issues were addressed and any outstanding issues.

In certain circumstances, the Crown may share and discuss the proponent's consultation record with an Aboriginal community to ensure that it is an accurate reflection of the consultation process.

c) Will the Crown require a proponent to provide information about its commercial arrangements with Aboriginal communities?

The Crown may require a proponent to share information about aspects of commercial arrangements between the proponent and Aboriginal communities where the arrangements:

- include elements that are directed at mitigating or otherwise addressing impacts of the project;
- include securing an Aboriginal community's support for the project; or
- may potentially affect the obligations of the Crown to the Aboriginal communities.

The proponent should make every reasonable effort to exempt the Crown from confidentiality provisions in commercial arrangements with Aboriginal communities to the extent necessary to allow this information to be shared with the Crown.

The Crown cannot guarantee that information shared with the Crown will remain confidential. Confidential commercial information should not be provided to the Crown as part of the consultation record if it is not relevant to the duty to consult or otherwise required to be submitted to the Crown as part of the regulatory process.

V. WHAT ARE THE ROLES AND RESPONSIBILITIES OF ABORIGINAL COMMUNITIES' IN THE CONSULTATION PROCESS?

Like the Crown, Aboriginal communities are expected to engage in consultation in good faith. This includes:

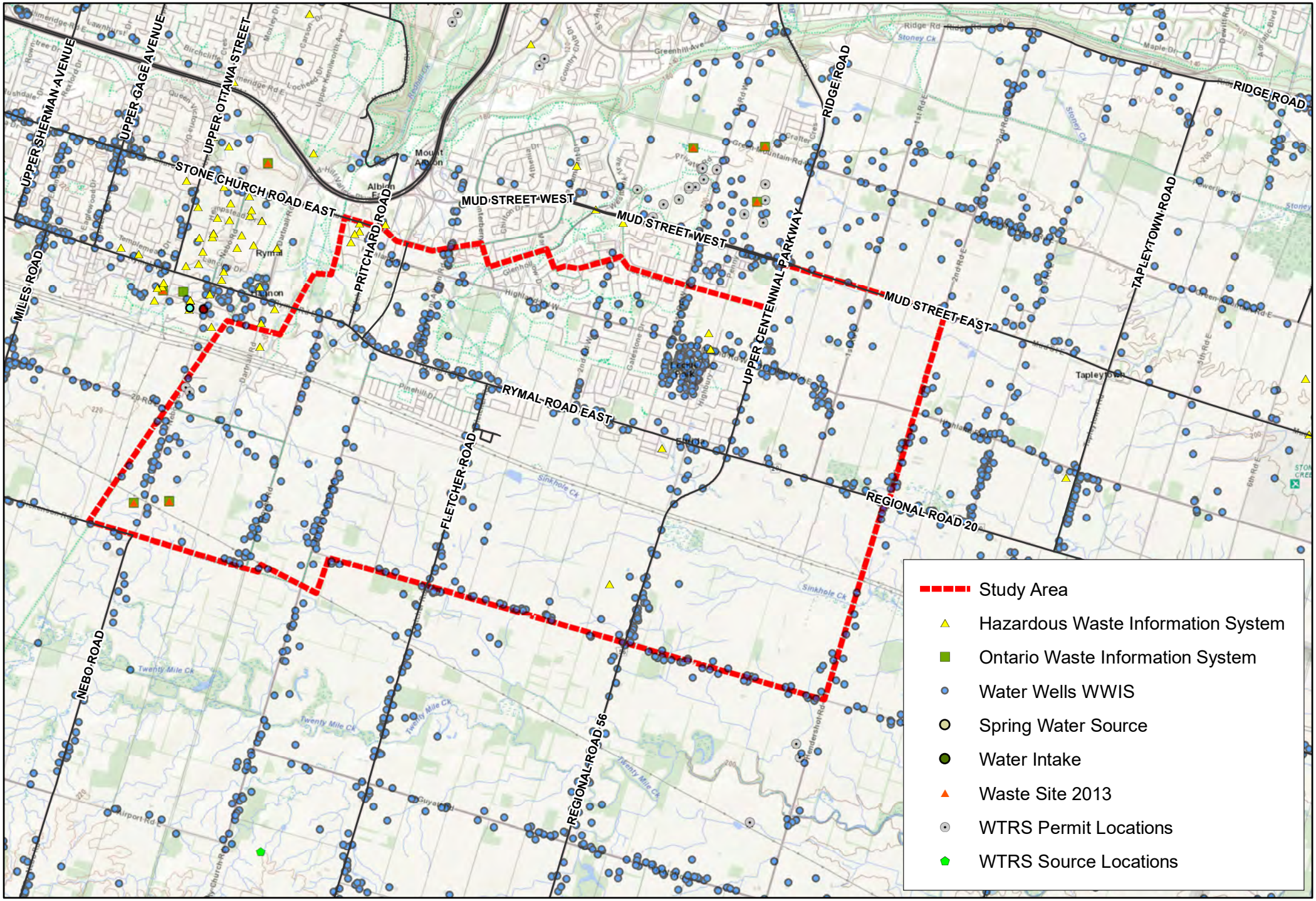
- responding to the consultation notice;
- engaging in the proposed consultation process;
- providing relevant information;
- clearly articulating the potential impacts of the proposed project on Aboriginal or treaty rights; and
- discussing ways to mitigate any adverse impacts.

Some Aboriginal communities have developed tools, such as consultation protocols, policies or processes that provide guidance on how they would prefer to be consulted. Although not legally binding, proponents are encouraged to respect these community processes where it is reasonable to do so. Please note that there is no obligation for a proponent to pay a fee to an Aboriginal community in order to enter into a consultation process.

To ensure that the Crown is aware of existing community consultation protocols, proponents should contact the relevant Crown ministry when presented with a consultation protocol by an Aboriginal community or anyone purporting to be a representative of an Aboriginal community.

VI. WHAT IF MORE THAN ONE PROVINCIAL CROWN MINISTRY IS INVOLVED IN APPROVING A PROPONENT'S PROJECT?

Depending on the project and the required permits or approvals, one or more ministries may delegate procedural aspects of the Crown's duty to consult to the proponent. The proponent may contact individual ministries for guidance related to the delegation of procedural aspects of consultation for ministry-specific permits/approvals required for the project in question. Proponents are encouraged to seek input from all involved Crown ministries sooner rather than later.



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Elevated Water Storage - Pressure District 7

City of Hamilton

DWECD GEOMATICS

Information provided by:
Ministry of the Environment and Climate Change
Ministry of Natural Resources

Coordinate System: NAD 1983 UTM Zone 17N
Projection: Transverse Mercator
Datum: North American 1983

N
W E
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0 1
Kilometers

Ministry of the Environment and Climate Change

Ontario

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From: Wang, Winston [mailto:Winston.Wang@hamilton.ca]
Sent: June-26-18 8:23 AM
To: Slattery, Barbara (MOECC) <barbara.slattery@ontario.ca>
Cc: Widmeyer, Paul (MOECC) <Paul.Widmeyer@ontario.ca>; Shelley Kuan <SKuan@coleengineering.ca>
Subject: RE: Elevated Water Storage - Pressure District 7 [Filed 04 Jul 2018 11:17]

Thank you Barbara for your guidance in completing this Class EA and I will forward these information to our consulting firm for their actions, if not already done so.

Regards,
Winston Wang, M. A. Sc., P. Eng.
Project Manager, Water & Wastewater Planning
Water and Wastewater Systems Planning Section
Hamilton Water, Public Works Department, City of Hamilton
77 James Street North, Suite 400, Hamilton, ON L8R 2K3
Tel: 905-546-2424 Ext. 4092 Fax: 905-546-4491 Email: winston.wang@hamilton.ca

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From: Slattery, Barbara (MOECC) [mailto:barbara.slattery@ontario.ca]
Sent: June 25, 2018 3:46 PM
To: Wang, Winston <Winston.Wang@hamilton.ca>
Cc: Widmeyer, Paul (MOECC) <Paul.Widmeyer@ontario.ca>
Subject: RE: Elevated Water Storage - Pressure District 7

With best regards,

Barb Slattery, EA/Planning Coordinator
Ministry of the Environment and Climate Change
West Central Region
(905) 521-7864

From: Wang, Winston [mailto:Winston.Wang@hamilton.ca]
Sent: June 25, 2018 7:56 AM
To: Slattery, Barbara (MOECC)
Cc: Shelley Kuan
Subject: RE: Elevated Water Storage - Pressure District 7

Hi Barbara,
I need some help from you regarding my project:
As we discussed below, I took over this project half way and I did not have the MOECC comments for this project (shame on us, by the way), just like the one you did for Elfrida Growth Study Area and any other Class EA's. Could you please provide some comments for mine as well, as I need to put those comments in our project file. The following link has basically all relevant information for your reference:

https://www.hamilton.ca/city-planning/master-plans-class-eas/elevated-water-storage-facility-and-pumping-station-pressure

If you could do that, I will be much appreciated!
Thanks,
Winston Wang, M. A. Sc., P. Eng.
Project Manager, Water & Wastewater Planning
Water and Wastewater Systems Planning Section
Hamilton Water, Public Works Department, City of Hamilton
77 James Street North, Suite 400, Hamilton, ON L8R 2K3
Tel: 905-546-2424 Ext. 4092 Fax: 905-546-4491 Email: winston.wang@hamilton.ca

From: Slattery, Barbara (MOECC) [mailto:barbara.slattery@ontario.ca]
Sent: June 7, 2018 3:34 PM
To: Wang, Winston <Winston.Wang@hamilton.ca>
Subject: RE: Elevated Water Storage - Pressure District 7

D'oaf!….nope…but here it is

From: Wang, Winston [mailto:Winston.Wang@hamilton.ca]
Sent: June 07, 2018 3:17 PM
To: Slattery, Barbara (MOECC)
Cc: Pham, Melanie; Anderton, Melanie
Subject: RE: Elevated Water Storage - Pressure District 7

Hi Barbara,
Once the process is completed, I believe we will generate three documents separately to address each specific concerns for each project as we are in different Departments, even though the PIC's are in the same date and at the same location. We will have different feedbacks for each project.
By the way, did you attach the response letter with this email?
Thanks,
Winston

From: Slattery, Barbara (MOECC) [mailto:barbara.slattery@ontario.ca]
Sent: June 7, 2018 2:43 PM
To: Wang, Winston <Winston.Wang@hamilton.ca>
Subject: RE: Elevated Water Storage - Pressure District 7

Hello again,
I've attached the response letter that I provided to Melanie – but that was on the Elfrida Subswatershed Study.
I think that I am correct in assuming that the *Elfrida Growth Area Study*, the *Elfrida Subwatershed Study* and the *Elevated Water Storage Facility and Pumping Station Study for Pressure District 7* are all interrelated.
Please see the attached letter acknowledging the Subwatershed study.
If all 3 things are being dealt with together at these PICs, then you can probably demonstrate that you have been meeting the public notification requirements under the MEA Class EA.
Once the process is finished, will you be generating a single document or 3 documents that are inter-related given that they are dealing with the same area and for the same overall purpose?

From: Wang, Winston [mailto:Winston.Wang@hamilton.ca]
Sent: June 07, 2018 2:07 PM
To: Slattery, Barbara (MOECC)
Cc: 'Shelley Kuan'
Subject: RE: Elevated Water Storage - Pressure District 7

Thanks Barbara for your information and much appreciated for your reminder.
I took over this project about half way of the EA process in February 2018. The first PIC was held on December 6, 2017, as part of the Elfrida Growth Area Study, which was conducted by my colleague at that time. Please see the attached notice for your reference.
Sorry for this convenience and I will be more diligently in moving forward with this project forward in accordance with the MEA Class EA document.
If you have any other concerns, please let us know.

Sincerely,
Winston Wang, M. A. Sc., P. Eng.
Project Manager, Water & Wastewater Planning

Water and Wastewater Systems Planning Section
Hamilton Water, Public Works Department, City of Hamilton
77 James Street North, Suite 400, Hamilton, ON L8R 2K3
Tel: 905-546-2424 Ext. 4092 Fax: 905-546-4491 Email: winston.wang@hamilton.ca

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From: Slattery, Barbara (MOECC) [mailto:barbara.slattery@ontario.ca]
Sent: June 7, 2018 1:50 PM
To: Wang, Winston <Winston.Wang@hamilton.ca>
Subject: Elevated Water Storage - Pressure District 7

Hello Winston,
Thank you for the Notice regarding PIC #2 for this EA study. However, I have checked our files and I see no record of having received a Notice of Commencement for this project. Can you please confirm that one was circulated as required by the MEA Class EA? Also, if one was sent to MOECC, to whom was it sent as I do not have any record of receiving it. For future notifications, they should be sent to me as I ensure that necessary staff of the ministry are advised as needed.

Barb Slattery, EA/Planning Coordinator
Ministry of the Environment and Climate Change
West Central Region
(905) 521-7864

From: Abu Sanneh [mailto:asanneh@flyhamilton.ca]
Sent: March-14-19 8:29 PM
To: Shelley Kuan <SKuan@coleengineering.ca>
Cc: Winston.Wang@hamilton.ca; Philip Gray <pgray@coleengineering.ca>; Rhona Scott <rscott@coleengineering.ca>
Subject: RE: Class EA for New Water Storage Facility and Pumping Station in Hamilton – Request for Comments

Hi Shelley,
The John C. Hamilton International Airport has no objection to EWSF # 3 and PS Site 1 as proposed. Please note that the Airport's assessment is limited to the impact of the proposed structure on the Airport Obstacle Limitation Surfaces and *Hamilton International Airport Zoning Regulations*. Therefore, the proposed project should also be submitted to NAV CANADA and Transport Canada for further review and evaluations.

Regards,

Abu Sanneh, C.M.
Manager, Airport Planning and Regulatory Affairs

John C. Munro Hamilton international Airport
9300 Airport Road, Suite 2206
Mount Hope, ON L0R 1W0
T: 905-667-8786 C: 905-928-0234
E: asanneh@flyhamilton.ca

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From: Shelley Kuan <SKuan@coleengineering.ca>
Sent: March-14-19 9:52 AM
To: Abu Sanneh <asanneh@flyhamilton.ca>
Cc: Winston.Wang@hamilton.ca; Philip Gray <pgray@coleengineering.ca>; Rhona Scott <rscott@coleengineering.ca>
Subject: FW: Class EA for New Water Storage Facility and Pumping Station in Hamilton – Request for Comments

Dear Mr. Sanneh,

Good morning. Based on the previous emails and phone call discussions, it seems that you would only be concerned with EWSF Site #5. Would it be sufficient to say that both the preferred EWSF Site 3 (for Elevated Water Storage Facility) and PS Site 1 (for Pumping Station) have no concerns to John C. Munro Hamilton International Airport? Please confirm to us.

Thanks for your suggestions. We have summited the forms to both NAV Canada and Transport Canada.

Please feel free to contact us if you have any questions.

Thank you.

Shelley Kuan, P. Eng.
Hydraulic Technical Manager
Modelling Lead
Infrastructure Planning

Cole Engineering Group Ltd.
70 Valleywood Drive, Markham, ON L3R 4T5
T: 905-940-6161 Ext. 371 Tor. Line: 905-987-6161
F: 905-940-2064
E: skuan@ColeEngineering.ca
www.ColeEngineering.ca

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From: Shelley Kuan
Sent: August-07-18 2:35 PM
To: 'Abu Sanneh' <asanneh@flyhamilton.ca>
Cc: 'Wang, Winston' <Winston.Wang@hamilton.ca>; Philip Gray <pgray@coleengineering.ca>; Rhona Scott <rscott@coleengineering.ca>
Subject: RE: Class EA for New Water Storage Facility and Pumping Station in Hamilton – Request for Comments

Hi Abu,
Thank you for the clarification this morning.
We will complete a Land Use Submission Form for the proposed (or preferred) storage facility EWSF Site #3 to NAV CANADA using the Land Use Submission Form, and the Transport Canada submission using the Aeronautical Assessment For Obstruction Evaluation Form.
In the event that any storage facility site, other than EWSF Site #3, becomes the preferred site, the Hamilton International Airport will be informed and another Land Use Submission Form will be completed in the future.

Please feel free to contact us if you have any questions.

Thank you.

Shelley Kuan, P. Eng.
Hydraulic Technical Manager
Modelling Lead
Water Management

Cole Engineering Group Ltd.
70 Valleywood Drive, Markham, ON L3R 4T5
T: 905-940-6161 Ext. 371 Tor. Line: 905-987-6161
F: 905-940-2064
E: skuan@ColeEngineering.ca
www.ColeEngineering.ca

From: Shelley Kuan
Sent: July-09-18 5:25 PM
To: 'Abu Sanneh' <asanneh@flyhamilton.ca>
Cc: Wang, Winston <Winston.Wang@hamilton.ca>; Philip Gray <pgray@coleengineering.ca>; Rhona Scott <rscott@coleengineering.ca>
Subject: RE: Class EA for New Water Storage Facility and Pumping Station in Hamilton – Request for Comments [Filed 09 Jul 2018 17:25]

Good Afternoon Abu,
At our Public Information Centre PIC#2 we presented the preferred site for the Elevated Water Storage Facility (EWSF) as Site 3. See attached presentation board of PIC #2 identifying the preferred sites. Given that your concern was raised for site 5, would it be sufficient to say that should we consider EWSF site 5 we would need to provide the information requested?

Also, would we still be required to complete a Land Use Submission Form for EWSF Site 3? If so, could these be done at the detailed design phase?

Please feel free to contact us if you have any questions.

Thank you.

Shelley Kuan, P. Eng.
Hydraulic Technical Manager
Modelling Lead
Water Management

Cole Engineering Group Ltd.
70 Valleywood Drive, Markham, ON L3R 4T5
T: 905-940-6161 Ext. 371 Tor. Line: 905-987-6161
F: 905-940-2064
E: skuan@ColeEngineering.ca
www.ColeEngineering.ca

From: Abu Sanneh [mailto:asanneh@flyhamilton.ca]
Sent: June-26-18 11:00 AM
To: Shelley Kuan <SKuan@coleengineering.ca>
Cc: Wang, Winston <Winston.Wang@hamilton.ca>; Philip Gray <pgray@coleengineering.ca>
Subject: RE: Class EA for New Water Storage Facility and Pumping Station in Hamilton – Request for Comments

Good morning Shelley,
Thank you for reaching out.
Based on the information provided site #5 appears to be in close proximity to the approach surface for Runway 12-30. The Hamilton International Airport hereby request further information on the site #5 to conduct further analysis on the proposed EWSF. Kindly provide the following information:

- Geographic Coordinates of Site #5 in NAD 83 (to four (4) decimal places of a second)
- Ground elevation (in metres - above sea level)
- Proposed Structure height in metres – above ground level)
- Total height – ground elevation + proposed structure height

It is also recommended that the proposed sites be submitted to NAV CANADA using the Land Use Submission Form and the Transport Canada submission using the Aeronautical Assessment For Obstruction Evaluation Form. Please follow the link below for NAV CANADA submission process. Contact Transport Canada to obtain the appropriate form – contact info also provided below.

NAV CANADA
AIS Data Collection Unit and Land Use Office
1601 Tom Roberts Road
P.O. Box 9824, Station T
Ottawa, ON K1G 6R2
E-mail: landuse@navcanada.ca
Tel: (866) 577-0247

Fax: (613) 248-4094
http://www.navcanada.ca/en/products-and-services/Pages/land-use-program.aspx
Transport Canada Civil Aviation Regional Office
4900 Yonge Street, 4th Floor
North York, Ontario M2N 6A5
E-mail: CASO-SACO@tc.gc.ca
Telephone: 1-800-305-2059
Fax: (416) 952-0196 / 1-877-822-2129

Should you have any questions or need further information, please do not hesitate to contact me.

Regards,
Abu Sanneh, C.M.
Manager, Airport Planning and Regulatory Affairs

John C. Munro Hamilton International Airport
9300 Airport Road, Suite 2206
Mount Hope, ON L0R 1W0
T: 905-667-8786 C: 905-928-0234
E: asanneh@flyhamilton.ca

Canada – Mexico – Dominican Republic – Cuba – Jamaica – Florida – Cruises

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From: Shelley Kuan
Sent: August-15-18 1:47 PM
To: 'David Deluce' <ddeluce@npca.ca>
Cc: Darren MacKenzie <DMacKenzie@npca.ca>; 'Wang, Winston' <Winston.Wang@hamilton.ca>; Rhona Scott <rscott@coleengineering.ca>
Subject: RE: Class EA for New Water Storage Facility and Pumping Station in Hamilton – Request for Comments

Dear Mr. Deluce,

We truly appreciate your prompt reply.

Thank you.

Shelley Kuan, P. Eng.
Hydraulic Technical Manager
Modelling Lead
Water Management
Cole Engineering Group Ltd.
70 Valleywood Drive, Markham, ON L3R 4T5
T: 905-940-6161 Ext. 371 Tor. Line: 905-987-6161
F: 905-940-2064
E: skuan@ColeEngineering.ca
www.ColeEngineering.ca

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From: David Deluce [mailto:ddeluce@npca.ca]
Sent: August-15-18 1:36 PM
To: Shelley Kuan <SKuan@coleengineering.ca>
Cc: Darren MacKenzie <DMacKenzie@npca.ca>
Subject: RE: Class EA for New Water Storage Facility and Pumping Station in Hamilton – Request for Comments

Hi Shelley,
In response to our voicemails and the email below I note the following:
PS1 – No NPCA interest
EWSF Site 3 – No NPCA interest
In each case, the sites are outside of any NPCA-Regulated Areas. I hope this information is helpful. If you have any questions, please let me know.

Regards,

David Deluce, MCIP, RPP
Manager, Plan Review & Regulations
Niagara Peninsula Conservation Authority (NPCA)
250 Thorold Road West, 3rd Floor, Welland, ON, L3C 3W2
905-788-3135, ext. 224
ddeluce@npca.ca
www.npca.ca

From: Shelley Kuan <SKuan@coleengineering.ca>
Sent: August 14, 2018 1:13 PM
To: David Deluce <ddeluce@npca.ca>
Cc: Wang, Winston <Winston.Wang@hamilton.ca>; Rhona Scott <rscott@coleengineering.ca>
Subject: FW: Class EA for New Water Storage Facility and Pumping Station in Hamilton – Request for Comments

Dear Mr. Deluce,
On behalf of the City of Hamilton, Cole Engineering Group Ltd. (COLE) is currently undertaking a Schedule B Municipal Class Environmental Assessment (EA) for a new Elevated Water Storage Facility (EWSF) and Pumping Station (PS) in the City of Hamilton (Pressure District 7). We had originally sent an email to Ms. McInnes at NPCA on April 20, 2018 and did not received a response. After making a few phone calls we understand that Ms. McInnes is no longer with NPCA and we have been given your contact information instead.

As mentioned in our previous email to Ms. McInnes (copied below), four of the five alternative EWSF sites and one of the three alternative PS sites are located with NPCA jurisdiction, but appear to be outside of NPCA's regulation limits as per NPCA's Watershed Explorer mapping (see attached figure 1).

Since our correspondence with Ms. McInnes, we have presented our recommendation of the preferred sites at the second PIC held on June 12, 2018. It is currently anticipated that the recommended sites EWSF Site 3 and PS Site 1. We have attached a copy of the boards for both PIC 1 and PIC 2. We have also attached our notice of commencement and PIC and our notice of PIC 2.

We would appreciate your confirmation of the sites' locations outside the NPCA regulation limits, along with any other comments or concerns that your or your staff may have. If it would be helpful, our team can be available to meet with you to discuss the project in further detail.

Please feel free to contact us if you have any questions.

Thank you.

Shelley Kuan, P. Eng.
Hydraulic Technical Manager
Modelling Lead
Water Management

Cole Engineering Group Ltd.
70 Valleywood Drive, Markham, ON L3R 4T5
T: 905-940-6161 Ext. 371 Tor. Line: 905-987-6161
F: 905-940-2064
E: skuan@ColeEngineering.ca
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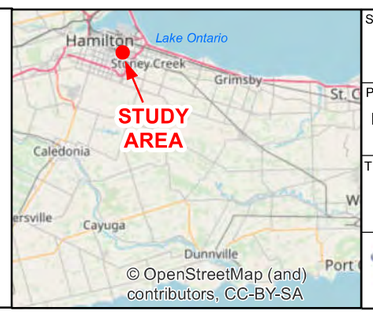
Highland Road West
Rymal Road
Golf Club Road
Upper Centennial Parkway
Regional Road 56
Nebo Road
Trans Canada Trail
Dartnell Road
Glover Road
Trinity Church Road
Fletcher Road

PS Site 1
PS Site 2
PS Site 3
HCA
NPCA
EWSF Site 1
EWSF Site 2
EWSF Site 3
EWSF Site 4
EWSF Site 5

LEGEND

- Study Area Boundary
- Conservation Authority Boundary
- Alternative Elevated Water Storage Facility (EWSF) and Pumping Station (PS) Sites
- Property Boundary

Contains public sector data made available under the City of Hamilton's Open Data License



SCALE 1:23,000

0 250 500 1,000 1,500 m

PROJECT

Elevated Water Storage Facility and Pumping Station for PD7
Municipal Class Environmental Assessment

TITLE

Alternative Sites

COLE ENGINEERING
Experience Enhancing Excellence

DATE: Sept. 2017		PROJECT: WM16-0435
GIS		
DESIGN		
CHECK		

FIGURE 1

From: Kenny, Darren [mailto:Darren.Kenny@conservationhamilton.ca]
Sent: April-23-18 9:54 AM
To: Shelley Kuan <SKuan@coleengineering.ca>
Subject: RE: Class EA for New Water Storage Facility and Pumping Station in Hamilton – Request for Comments

Ms. Kuan,
Review of the alternative sites for the elevated water storage facility and pump station shows that only PS Site 2 *may* be located within the HCA regulated area and may require written permission from our office under Ontario Regulation 161/06. This is due to the presence of nearby headwater streams.
If the recommended sites EWSF Site 3 and PS Site 1 are indeed going to be pursued, our office would not need to be circulated on further developments associated with the EA as these locations are within NPCA's watershed.
If PS Site 2 remains under consideration, then our office should be consulted in order to select the best location relative to the headwater streams and regulated area.

Darren Kenny, B.Sc. (Hons.), CAN-CISEC
Watershed Officer, Badge # 113
Hamilton Conservation Authority
P.O. Box 81067, 838 Mineral Springs Road
Ancaster, Ontario L9G 4X1
Tel - 905-525-2181, ext. 131
Fax - 905-648-4622
darren.kenny@conservationhamilton.ca
Website - www.conservationhamilton.ca

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From: Herczeg, Brooke (MTCS) [mailto:Brooke.Herczeg@ontario.ca]
Sent: July 11, 2018 11:07 AM
To: Wang, Winston <Winston.Wang@hamilton.ca>
Cc: iplanning <iplanning@hamilton.ca>
Subject: Elevated Water Storage Facility and Pumping Station for Pressure

Dear Mr. Wang,

Please see the attached MTCS comments for the elevated water storage facility and pumping station for pressure district PF 7 project in the City of Hamilton. If you have any questions for wish to discuss MTCS comments please contact me.

Thank you,
Brooke
Brooke Herczeg MPL
Heritage Planner
Heritage Program | Programs and Services Branch | Ministry of Tourism, Culture and Sport
401 Bay Street Suite 1700 Toronto ON M7A 0A7
Tel. 416.314.7133| email: Brooke.Herczeg@ontario.ca

Ministry of Tourism, Culture and Sport

Heritage Program Unit
Programs and Services Branch
401 Bay Street, Suite 1700
Toronto ON M7A 0A7
Tel: 416 314 7133
Fax: 416 212 1802

Ministère du Tourisme, de la Culture et du Sport

Unité des programmes patrimoine
Direction des programmes et des services
401, rue Bay, Bureau 1700
Toronto ON M7A 0A7
Tél: 416 314 7133
Téléc: 416 212 1802

Ontario

July 11, 2018 (EMAIL ONLY)

Winston Wang
City of Hamilton
77 James Street North, Suite 400
Hamilton, On L8R2K3
Winston.Wang@hamilton.ca

RE: MTCS file #: 0009004
Proponent: City of Hamilton
Subject: Notice of Commencement
Elevated Water Storage Facility and Pumping Station for Pressure District (PD) 7
Location: City of Hamilton, Ontario

Dear Mr. Wang:

Thank you for providing the Ministry of Tourism, Culture and Sport (MTCS) with the Notice of Commencement for your project. MTCS's interest in this Environmental Assessment (EA) project relates to its mandate of conserving Ontario's cultural heritage, which includes:

- Archaeological resources, including land-based and marine;
- Built heritage resources, including bridges and monuments; and,
- Cultural heritage landscapes.

Under the EA process, the proponent is required to determine a project's potential impact on cultural heritage resources.

While some cultural heritage resources may have already been formally identified, others may be identified through screening and evaluation. Indigenous communities may have knowledge that can contribute to the identification of cultural heritage resources, and we suggest that any engagement with Indigenous communities includes a discussion about known or potential cultural heritage resources that are of value to these communities. Municipal Heritage Committees, historical societies and other local heritage organizations may also have knowledge that contributes to the identification of cultural heritage resources.

Archaeological Resources
Your EA project may impact archaeological resources and you should screen the project with the MTCS *Criteria for Evaluating Archaeological Potential* to determine if an archaeological assessment is needed. MTCS archaeological sites data are available at *archaeology@ontario.ca*. If your EA project area exhibits archaeological potential, then an archaeological assessment (AA) should be undertaken by an archaeologist licenced under the *OHA*, who is responsible for submitting the report directly to MTCS for review.

Built Heritage and Cultural Heritage Landscapes
The MTCS *Criteria for Evaluating Potential for Built Heritage Resources and Cultural Heritage Landscapes* should be completed to help determine whether your EA project may impact cultural heritage resources. The Clerk/s for the City of Hamilton can provide information on property registered or designated under the *Ontario Heritage Act*. Municipal Heritage Planners can also provide information that will assist you in completing the checklist.

If potential or known heritage resources exist, MTCS recommends that a Heritage Impact Assessment (HIA), prepared by a qualified consultant, should be completed to assess potential project impacts. Our Ministry's *Info Sheet #5: Heritage Impact Assessments and Conservation Plans* outlines the scope of HIAs. Please send the HIA to MTCS and the City of Hamilton for review, and make it available to local organizations or individuals who have expressed interest in review.

Environmental Assessment Reporting
All technical heritage studies and their recommendations are to be addressed and incorporated into EA projects. Please advise MTCS whether any technical heritage studies will be completed for your EA project, and provide them to MTCS before issuing a Notice of Completion. If your screening has identified no known or potential cultural heritage resources, or no impacts to these resources, please include the completed checklists and supporting documentation in the EA report or file.

Thank you for consulting MTCS on this project: please continue to do so through the EA process, and contact me for any questions or clarification.

Sincerely,

Brooke Herczeg
Heritage Planner
Brooke.Herczeg@Ontario.ca

Copied to: Melaine Anderton Project Manager, City of Hamilton – iplanning@hamilton.ca

It is the sole responsibility of proponents to ensure that any information and documentation submitted as part of their EA report or file is accurate. MTCS makes no representation or warranty as to the completeness, accuracy or quality of the any checklists, reports or supporting documentation submitted as part of the EA process, and in no way shall MTCS be liable for any harm, damages, costs, expenses, losses, claims or actions that may result if any checklists, reports or supporting documents are discovered to be inaccurate, incomplete, misleading or fraudulent.

Please notify MTCS if archaeological resources are impacted by EA project work. All activities impacting archaeological resources must cease immediately, and a licensed archaeologist is required to carry out an archaeological assessment in accordance with the Ontario Heritage Act and the Standards and Guidelines for Consultant Archaeologists.

If human remains are encountered, all activities must cease immediately and the local police as well as the Registrar, Burials of the Ministry of Government and Consumer Services (416-326-8800) must be contacted. In situations where human remains are associated with archaeological resources, MTCS should also be notified to ensure that the site is not subject to unlicensed alterations which would be a contravention of the Ontario Heritage Act.

From: Wang, Winston [mailto:Winston.Wang@hamilton.ca]
Sent: May-24-18 9:23 AM
To: Shelley Kuan <SKuan@coleengineering.ca>
Cc: Philip Gray <pgray@coleengineering.ca>
Subject: FW: Elevated Water Storage Facility

FYI……

Winston Wang, M. A. Sc., P. Eng.
Project Manager, Water & Wastewater Planning
Water and Wasteater Systems Planning Section
Hamilton Water, Public Works Department, City of Hamilton
77 James Street North, Suite 400, Hamilton, ON L8R 2K3
Tel: 905-546-2424 Ext. 4092 Fax: 905-546-4491 Email: winston.wang@hamilton.ca

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From: EnviroOnt [mailto:EnviroOnt@tc.gc.ca]
Sent: May 24, 2018 9:18 AM
To: Wang, Winston <Winston.Wang@hamilton.ca>
Subject: Elevated Water Storage Facility

Greetings,

Thank you for your correspondence.

Please note Transport Canada **does not** require receipt of all individual or Class EA related notifications. We are requesting project proponents to self-assess if their project:

1. Will interact with a federal property and/or waterway by reviewing the Directory of Federal Real Property, available at at www.tbs-sct.gc.ca/dfrp-rbif/; **and**
2. Will require approval and/or authorization under any Acts administered by Transport Canada* available at http://www.tc.gc.ca/eng/acts-regulations/menu.htm.

Projects that will occur on federal property prior to exercising a power, performing a function or duty in relation to that project, will be subject to a determination of the likelihood of significant adverse environmental effects, per Section 67 of the *Canadian Environmental Assessment Act, 2012*.

If the aforementioned does not apply, the Environmental Assessment program should not be included in any further correspondence and future notifications will not receive a response. If there is a role under the program, correspondence should be forwarded *electronically* to: EnviroOnt@tc.gc.ca with a **brief description of Transport Canada's expected role**.

*Below is a summary of the most common Acts that have applied to projects in an Environmental Assessment context:

- ***Navigation Protection Act (NPA)*** – the Act applies primarily to works constructed or placed in, on, over, under, through, or across scheduled navigable waters set out under the Act. The Navigation Protection Program administers the NPA through the review and authorization of works affecting scheduled navigable waters. Information about the Program, NPA and approval process is available at: http://www.tc.gc.ca/eng/programs-621.html. Enquiries can be directed to NPPONT-PPNONT@tc.gc.ca or by calling (519) 383-1863.

- ***Railway Safety Act (RSA)*** – the Act provides the regulatory framework for railway safety, security, and some of the environmental impacts of railway operations in Canada. The Rail Safety Program develops and enforces regulations, rules, standards and procedures governing safe railway operations. Additional information about the Program is available at: https://www.tc.gc.ca/eng/railsafety/menu.htm. Enquiries can be directed to RailSafety@tc.gc.ca or by calling (613) 998-2985.

- ***Transportation of Dangerous Goods Act (TDGA)*** – the transportation of dangerous goods by air, marine, rail and road is regulated under the TDGA. Transport Canada, based on risks, develops safety standards and regulations, provides oversight and gives expert advice on dangerous goods to promote public safety. Additional information about the transportation of dangerous goods is available at: https://www.tc.gc.ca/eng/tdg/safety-menu.htm. Enquiries can be directed to TDG-TMDOntario@tc.gc.ca or by calling (416) 973-1868.

- ***Aeronautics Act*** – Transport Canada has sole jurisdiction over aeronautics, which includes aerodromes and all related buildings or services used for aviation purposes. Aviation safety in Canada is regulated under this Act and the Canadian Aviation Regulations (CARs). Elevated Structures, such as wind turbines and communication towers, would be examples of projects that must be assessed for lighting and marking requirements in accordance with the CARs. Transport Canada also has an interest in projects that have the potential to cause interference between wildlife and aviation activities. One example would be waste facilities, which may attract birds into commercial and recreational flight paths. The *Land Use In The Vicinity of Aerodromes* publication recommends guidelines for and uses in the vicinity of aerodromes, available at: https://www.tc.gc.ca/eng/civilaviation/publications/tp1247-menu-1418.htm. Enquires can be directed to at tc.aviationservicesont-servicesaviationont.tc@tc.gc.ca or by calling 1 (800) 305-2059 / (416) 952-0230.

Please advise if additional information is needed.

Thank you,

Environmental Assessment Program, Ontario Region
Transport Canada / Government of Canada / 4900 Yonge St., Toronto, ON M2N 6A5
EnviroOnt@tc.gc.ca / Facsimile : (416) 952-0514 / TTY: 1-888-675-6863

Programme d'évaluation environnementale, Région de l'Ontario
Transports Canada / Gouvernement du Canada / 4900, rue Yonge, Toronto, ON, M2N 6A5
EnviroOnt@tc.gc.ca / télécopieur: (416) 952-0514

NEATS 47479

Hamilton

City of Hamilton
City Hall, 71 Main Street West
Hamilton, Ontario,
Canada L8P 4Y5
www.hamilton.ca

Hamilton Water Division, Public Works Department
Physical Address: 77 James Street North, Suite 400, Hamilton, Ontario, L8R 2K3
Phone: 905-546-2424 ext. 4092 Fax: 905-546-4491
Email: Winston.Wang@hamilton.ca

May 16, 2018

Re: Public Information Centre (PIC) No. 2
Schedule 'B' Municipal Class Environmental Assessment Study
Elevated Water Storage Facility and Pumping Station for Pressure District (PD) 7

Dear Sir/Madam;

The City of Hamilton has initiated the Schedule 'B' Municipal Class Environmental Assessment (EA) Study for an Elevated Water Storage Facility (EWSF) and Pumping Station at Pressure District (PD) 7. The purpose of this Class EA is to determine the preferred site(s) for a new elevated water storage facility and pumping station to provide water supply for future growth within PD7, and to address security of supply and water system balancing.

We have enclosed for your information a copy of the Public Information Center (PIC) No. 2, as part of the Elfrida Growth Area Study, which will appear in The Hamilton Spectator on June 1, 2018 and in the Stoney Creek News and the Glanbrook Gazette on May 31 and June 7, 2018, respectively. If your agency/office has any comments or input regarding this project, we invite you to complete and return the attached Response Form by July 12, 2018.

For further information or if you wish to provide input regarding this project, please contact the undersigned at 905-546-2424 ext. 4092 or via email at winston.wang@hamilton.ca .

Yours truly,

Winston Wang, M. A. Sc., P. Eng.
Project Manager

Enclosures: Public Information Centre 2
Response Form

LET'S TALK!

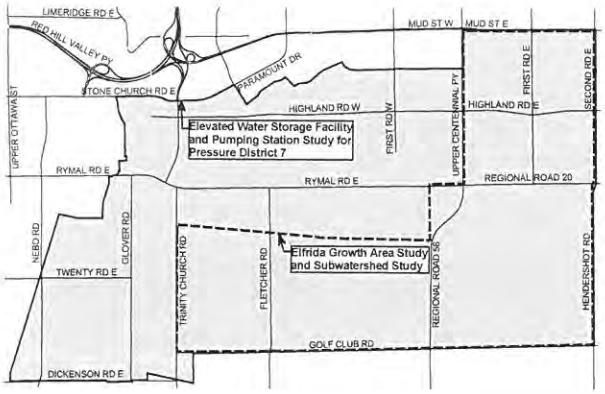
ELFRIDA

COMMUNITY MEETING

TUESDAY JUNE 12 2018

6:00 - 8:30 PM
Presentation at 6:30 pm

VALLEY PARK RECREATION CENTRE AND ARENA (GYMNASIUM)
970 Paramount Drive
Stoney Creek, Hamilton



ELFRIDA GROWTH AREA STUDY

The City of Hamilton is growing and the population is projected to increase to 680,000 by 2031. While the City has made efforts to grow within its current urban boundary, an urban boundary expansion is required to accommodate future population growth. In reviewing opportunities for where future growth could occur, the Elfrida area was identified as the preferred location.

HELP SHAPE THE NEW COMMUNITY FOR ELFRIDA

Gather your friends and neighbours and join us to share your ideas as we plan for a new community in the Elfrida Area. At this meeting staff will discuss the evaluation process for the three development scenarios that were presented at the last meeting, and the preferred community structure ideas which will be carried forward to a future recommended plan. We need you to let us know what you think of the evaluation and if there are other things we need to consider.

The meeting will include a presentation about the evaluation process and preferred community structure ideas followed by small group discussions about the different preferred elements. Input is important and will be used to complete the evaluation and confirm the community structure ideas that should be carried forward to shape a recommended plan.

FOR MORE INFORMATION CONTACT

Melanie Pham, *MCIP, RPP*
Planner
905-546-2424 Ext. 6685
Melanie.Pham@hamilton.ca

www.hamilton.ca/elfrida

ELFRIDA SUBWATERSHED STUDY

NOTICE OF PUBLIC INFORMATION CENTRE 2

The Subwatershed study is intended to present an approach to manage, protect, and enhance the natural environment. This includes stormwater management (quality and quantity), as well as terrestrial and aquatic resources within the Elfrida study area limits. Major issues and opportunities have been identified which provide the basis to guide future growth in an environmentally sound manner. The Phase 1 findings have been updated since the June 2017 study commencement/public consultation and will be available at the community meeting. This Study follows the planning and design process defined in the Municipal Engineers Association's Municipal Class Environmental Assessment document (October 2000, as amended in 2007, 2011 & 2015).

FOR MORE INFORMATION CONTACT

Melanie Anderton
Project Manager
905-546-2424 Ext. 6412
iplanning@hamilton.ca

www.hamilton.ca/elfridaSWS

ELEVATED WATER STORAGE FACILITY AND PUMPING STATION STUDY FOR PRESSURE DISTRICT 7

NOTICE OF PUBLIC INFORMATION CENTRE 2

This study commenced in 2017 and the first Public Information Centre was held on December 6, 2017. At this second meeting, the City will have information available on the Municipal Class Environmental Assessment (Class EA) study initiated to identify the preferred site for a new water storage facility and pumping station. This study also follows the requirements for a Schedule "B" project as described in the Municipal Engineers Association's Municipal Class EA document (October 2000, as amended in 2007, 2011 & 2015). Study details, including background information, alternative siting options, evaluation results, recommended sites, and proposed mitigation measures will be available at the community meeting. All interested individuals are encouraged to attend. Written comments are also invited for further consideration.

FOR MORE INFORMATION CONTACT

Winston Wang
Project Manager
905-546-2424 Ext. 4092
Winston.Wang@hamilton.ca

www.hamilton.ca/PD7waterfacilities

If you have any accessibility requirements to participate in this event please call 905-546-2424 Ext. 4498 or email elfrida@hamilton.ca

Hamilton

Advance requests are encouraged to enable us to meet your needs adequately.

Hamilton

RESPONSE FORM
City of Hamilton
Municipal Class Environmental Assessment Study
For Elevated Water Storage Facility And
Pumping Station for Pressure District (PD) 7

1. Contact Name: _____

2. Ministry/Agency/Office: _____

3. Address: _____

_____ Postal Code: _____

Phone No.: _____

Email: _____

4. Please note specific comments and/or concerns (please attach additional sheets if necessary):

_____

_____

_____

_____

_____

5. Do you wish to be notified for continued involvement in the project process, up to and including project implementation? Yes _____ No _____

Signature _____ Date _____

Please return this form to:

Winston Wang, P. Eng.
Project Manager
City of Hamilton
77 James Street North, Suite 400
Hamilton, ON L8R 2K3

Phone: 905-546-2424 ext. 4092
Fax: 905-546-4491
Email: Winston.Wang@hamilton.ca

Thank you for your participation in this study.

-----Original Message-----
From: Mateen, Ovais [mailto:ovais.mateen@tc.gc.ca]
Sent: July-17-19 1:49 PM
To: Shelley Kuan <SKuan@coleengineering.ca>
Cc: Pollock, Mary <mary.pollock@tc.gc.ca>; Land Use <LandUse@navcanada.ca>
Subject: RE: Aeronautical Assessment Form for Obstacle Evaluation_Hamilton PD7 EWSF Site 3 (Rev1) - ATS-19-20-00002540 & ATS-19-20-00002543

Good afternoon Shelley,

Please see the attached two (2) assessed Transport Canada Aeronautical Assessment Form for Obstruction Marking and Lighting, ATS-19-20-00002540 & ATS-19-20-00002543.

Also please be advised that a Land Use submission form is to be applied for and sent separately to Nav Canada at landuse@navcanada.ca.
For a detailed description on Nav Canada's requirements, refer to Nav Canada Land Use Proposal website at www.navcanada.ca, or for further information, call 1-866-577-0247.

Thank you.

Ovais Mateen

Civil Aviation Safety Inspector, Aerodromes and Air Navigation Transport Canada / Government of Canada ovais.mateen@tc.gc.ca / Cel: 416-414-0350 / TTY: 1-888-675-6863
Inspecteur de la sécurité de l'aviation civile, Aérodromes et navigation aérienne Transports Canada / Gouvernement du Canada ovais.mateen@tc.gc.ca / Tél. cell. : 416-414-0350 / ATS: 1-888-675-6863

Transport Canada | Transports Canada

AERONAUTICAL ASSESSMENT FORM FOR OBSTACLE EVALUATION

Transport Canada number: ATS-19-20-00002540

Applicant number:

SECTION 1

Owner's Name	Contact Person
City of Hamilton	Winston Wang

Address: 77 James Street North, Suite 400

City	Province	Postal Code
Hamilton	ON	L3R 4T5

Telephone number (999-999-9999)	Fax number (999-999-9999)	Email Address
905-546-2424 x4092	905-546-4202	winston.wang@hamilton.ca

SECTION 2

Applicant's Name	Contact Person
Cole Engineering Group Ltd.	Shelley Kuan

Address: 70 Valleywood Drive

City	Province	Postal Code
Markham	ON	L3R 4T5

Telephone number (999-999-9999)	Fax number (999-999-9999)	Email Address
905-940-6161 x371	905-940-2064	SKuan@ColeEngineering.ca

SECTION 3

Description of Proposal (or as attached)

A new Elevated Water Storage Facility (EWSF)or Water Tank is proposed for the City of Hamilton PD7 water system.

The preferred site for the proposed EWSF is Site 3 and it is located at 420 Trinity Church Road. Please see Attachments 1 and 2 for details.

Attachment 1 shows the supporting map with the Topo and datum (NAD 83)of the preferred EWSF Site 3.

Attachment 2 illustrates the location of the EWSF Site 3 overlaid on the Airport Zoning Regulations Mapping provided to us by the City.

Construction Crane details(e.g.type of crane)will be submitted separately during design stage.

SECTION 4

Nearest Community	Province
Hannon	ON

SECTION 5	SECTION 6
Nearest Aerodrome: John C. Munro International Airport	Have you contacted the aerodrome? ☑ Yes ☐ No
SECTION 7	**SECTION 8**
Notice of: ☑ New Construction ☐ Change to existing structure	Duration: ☑ Permanent ☐ Temporary

SECTION 9

Proposed Construction Date Beginning (yyyy-mm-dd): 2020-05-01 (to be confirmed)

SECTION 10

Temporary Structure

From date (yyyy-mm-dd): n/a To date (yyyy-mm-dd): n/a

Canada

Transport Canada number

ATS-19-20-00002540

SECTION 11

Geographic Coordinates ☑ NAD83 ☐ NAD27 ☐ WGS84

For multiple structures in a grouping, submit geographical coordinates on a seperate spreadsheet (e.g. windfarms, transmission lines)

N Latitude deg 43 min 10 sec 22.6300

W Longitude deg 79 min 49 sec 30.0500

SECTION 12

Marking and Lighting Proposed (refer to Standard 621)

☑ Red lights and paint
☐ Red and M.I. white lights
☐ White M.I. lights
☐ Red and H.I. white lights
☐ White H.I. lights
☐ No painting
☐ No lighting
☐ Paint marking only
☐ Other (provide description):

SECTION 13

Monitoring to Standard 621, article 4.7

☐ Visual inspection – 24 hrs
☑ [1] Remote indicator – failure alarm
☐ Remote indicator – with self-diagnostic
☐ [2] Other

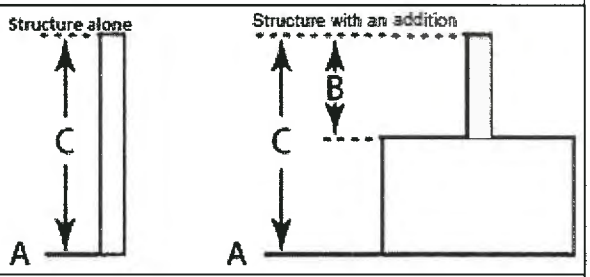
[1] Mitigation to be detailed in Section 3 [2] Justification to be given in Section 3

SECTION 14

Catenary/Cable Crossing

☐ Paint supporting structures
☐ Cable marker spheres
☐ Shore markers
☑ Support structure lighting
☐ Cable marker lights

SECTION 15	Feet	Metres
A Ground Elevation (AMSL)	716.7	218.5
B Height of an addition to a structure	0	0
C Total structure height including **B** (AGL)	154.2	47.0
Overall height (**A** plus **C**) (AMSL)	870.9	265.5



SECTION 16

Does the proposal comply with ***Airport Zoning Regulations***?

◯ Yes ◯ No ◉ N/A

Where the location of the object is on lands affected by ***Airport Zoning Regulations***, a legal survey is required with the submital.

I hereby certify that all the above statements made by me are true, complete and correct to the best of my knowledge. Also, I agree to mark and/or light and maintain the structure with established marking and lighting standards as necessary.

Shelley Kuan

Name of person filing notice

Shelley Kuan

Signature

2019-03-15

Date (yyyy-mm-dd)

SECTION 17 – TRANSPORT CANADA ASSESSMENT (Transport Canada use only)

Marking and lighting required (as per Standard 621)

☐ Night protection required ☐ Day protection required ☐ Temporary lighting required ☑ No protection required

Completion of this form does not constitute authorization for construction nor replace other approvals or permits. See instruction E and F.

Civil Aviation Inspector	Signature	Date (yyyy-mm-dd)
Ovais Mateen		2019-07-17

Note 1: This assessment expires 18 months from the date of assessment unless extended, revised, or terminated by the issuing office.

Note 2: If there is a change to the intended installation, a new submittal is required.

Canada

Transport Canada | Transports Canada

AERONAUTICAL ASSESSMENT FORM FOR OBSTACLE EVALUATION

Transport Canada number
Applicant number

SECTION 1

Owner's Name		Contact Person	
Address			
City		Province	Postal Code
Telephone number (999-999-9999)	Fax number (999-999-9999)	Email Address	

SECTION 2

Applicant's Name		Contact Person	
Address			
City		Province	Postal Code
Telephone number (999-999-9999)	Fax number (999-999-9999)	Email Address	

SECTION 3

D

Canada

Transport Canada number

SECTION 11

Geographic Coordinates ☑ NAD83 ☐ NAD27 ☐ WGS84

For multiple structures in a grouping, submit geographical coordinates on a seperate spreadsheet (e.g. windfarms, transmission lines)

N Latitude deg 43 min 10 sec 22.6300

W Longitude deg 79 min 49 sec 30.0500

SECTION 12

Marking and Lighting Proposed (refer to Standard 621)

☑ Red lights and paint
☐ Red and M.I. white lights
☐ White M.I. lights
☐ Red and H.I. white lights
☐ White H.I. lights
☐ No painting
☐ No lighting
☐ Paint marking only
☐ Other (provide description):

SECTION 13

Monitoring to Standard 621, article 4.7

☐ Visual inspection – 24 hrs
☑ [1] Remote indicator – failure alarm
☐ Remote indicator – with self-diagnostic
☐ [2] Other

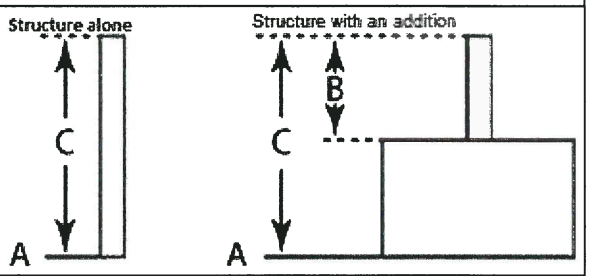
[1] Mitigation to be detailed in Section 3 [2] Justification to be given in Section 3

SECTION 14

Catenary/Cable Crossing

☐ Paint supporting structures
☐ Cable marker spheres
☐ Shore markers
☑ Support structure lighting
☐ Cable marker lights

SECTION 15	Feet	Metres
A Ground Elevation (AMSL)	716.7	218.5
B Height of an addition to a structure	0	0
C Total structure height including **B** (AGL)	154.2	47.0
Overall height (**A** plus **C**) (AMSL)	870.9	265.5



SECTION 16

Does the proposal comply with ***Airport Zoning Regulations***?

○ Yes ○ No ◉ N/A

Where the location of the object is on lands affected by ***Airport Zoning Regulations***, a legal survey is required with the submittal.

I hereby certify that all the above statements made by me are true, complete and correct to the best of my knowledge. Also, I agree to mark and/or light and maintain the structure with established marking and lighting standards as necessary.

Shelley Kuan
Name of person filing notice

Shelley Kuan
Signature

2019-03-15
Date (yyyy-mm-dd)

SECTION 17 – TRANSPORT CANADA ASSESSMENT (Transport Canada use only)

Marking and lighting required (as per Standard 621)

☐ Night protection required ☐ Day protection required ☐ Temporary lighting required ☐ No protection required

Completion of this form does not constitute authorization for construction nor replace other approvals or permits. See instruction E and F.

Civil Aviation Inspector	Signature	Date (yyyy-mm-dd)

Note 1: This assessment expires 18 months from the date of assessment unless extended, revised, or terminated by the issuing office.

Note 2: If there is a change to the intended installation, a new submittal is required.

Canada

USE AND INSTRUCTIONS FOR COMPLETING FORM

A. Purpose of Form: The purpose of this form is to assess the need and application of marking and lighting for objects that may pose a hazard to aviation and to determine conformance to ***Airport Zoning Regulations***.

B. When to Complete the Form: Completed forms, electronic or paper, are submitted at least 90 days prior to all alterations which increase the structure's height; or for proposed new structures if:

(i) of such a height as to penetrate an airport obstacle limitation surface specified in the *Aerodrome Standards and Recommended Practices Manual* – TP312;

(ii) within 6 km of the centre of an aerodrome;

(iii) higher than 90 m AGL within 3.7 km of the centreline of a recognized VFR route such as, but not limited to, a valley, a railroad, a transmission line, a pipeline, a river or a highway;

(iv) higher than 150 m AGL at any other location; or

(v) a component of a catenary wire crossing where any portion of the wires or supporting structures exceed 90 m AGL;

C. Proponents are encouraged to make submittal for other objects such as skeletal and solid structures, MET (meteorological) towers, power lines and bridges, in order for the Minister to determine if they constitute a hazard to air navigation in accordance with CAR 601.25.

D. Cranes: Submittals are made for cranes that are within 6km of the geographical centre of an aerodrome, regardless of the height of the crane.

E. Supporting Data and Documents

(i) a 1:50,000 scale map, or the most detailed map available showing ground contour elevations to allow determination of the structure's latitude and longitude.

(ii) sketches, plans or blueprints for structures other than radio or TV antennae.

F. This form does not constitute authority for construction.

G. This form neither constitutes nor replaces any approvals, permits or assessments required by NAV CANADA, Industry Canada, other Federal Government departments, Provincial or Municipal land use authorities or any other agency from which approval/assessment is required.

H. Completed applications are to be forwarded to the applicable Transport Canada Regional office listed in Standard 621, Appendix A.

I. A separate application is to be submitted to NAV CANADA. For a detailed description on NAV CANADA's requirements and additional information, refer to the NAV CANADA Land Use Proposal website at www.navcanada.ca

J. If the proposed construction does not take place, notification is sent to Transport Canada.

Abbreviations

AMSL	Above Mean Sea Level
AGL	Above Ground Level
M.I.	Medium Intensity
H.I.	High Intensity
VFR	Visual Flight Rule

Canada

USE AND INSTRUCTIONS FOR COMPLETING FORM (continued)

Section 1 – The Owner of the structure who is responsible for installation of marking and lighting. Include name, address and phone number of a personal contact point as well as the company name.

Section 2 – The Owner's representative who is making application, if other than Section 1 Include name, address and phone number of a personal contact point as well as the company name.

Section 3 – Provide a narrative description of the proposal

(a) – MANDATORY - Indicate the type of structure. (e.g. antenna, crane, building, power line, landfill, water tank, wind farm, moored balloon, kite, catenary/cable crossing, etc.)

(b) – For overhead wires or transmission lines, include size and configuration of wires and their supporting structures (Attach depiction).

(c) – For each pole/support, include coordinates, site elevation, and structure height above ground level or water. For buildings, include site orientation, coordinates of each corner, dimensions, and construction materials. For alterations, explain the alteration thoroughly.

(d) – For a proposed wind farm, include a spreadsheet with Turbine ID, geographic coordinates (in minutes, degrees and seconds), height above ground, and ground elevation.

(e) – For existing structures, thoroughly explain the reason for notifying Transport Canada (e.g. corrections, no record on file with Transport Canada or previous study, etc.).

(f) – For Catenary crossings, the geographic coordinates for all pertinent support structures are provided along with heights AMSL and AGL including the height of wires above ground or water level.

(g) – If available, attach a copy of a documented site survey with the surveyor's certification stating the amount of vertical and horizontal accuracy in feet.

(h) - Description of surrounding environment and structures. Provide photographs of the area of intended installation.

Section 4 – Enter the name of the nearest community, city or town to the site. If the structure is or will be in a community, enter the name of that community.

Section 5 – Enter the name of the nearest aerodrome.

Section 6 – It is recommended that the nearest aerodrome be contacted to resolve any difficulties that the installation may pose to aerodrome operations.

Section 7 – (a) – New Construction would be a structure that has not yet been built.

(b) – Alteration is a change to an existing structure such as the addition of a top mounted antenna, a change to the marking and lighting, a change to power and/or frequency, or a change to the height. The nature of the alteration is included in Section 3 “Description of Proposal”.

(c) – Existing would be a correction to the latitude and/or longitude, a correction to the height, or if filing on an existing structure which has not been assessed. The reason for the notice is included in Section 3 “Description of Proposal”.

Section 8 – A temporary structure would be such as a crane or drilling derrick.

Section 9 – Enter the date for the start of construction.

Section 10 – Enter the time period during which the temporary structure will be in place.

Section 11 – Latitude and longitude must be geographic coordinates, to within the nearest second or to the nearest hundredth of a second if known. For accuracy of the measurement refer to the International Civil Aviation Organization (ICAO) Annex 15 *Aeronautical Information Services*. For multiple structures in a grouping, submit geographical coordinates on a seperate spreadsheet (e.g. windfarms, transmission lines)

Section 12 – Refer to Standard 621 for requirements of marking and various lighting systems.

Section 13 – Indicate the means that will be used to monitor the status of the lighting and identify the occurrence of a failure.

– Where electronic monitoring with "failure alarm" is provided, describe in Section 3 what mitigation will be applied (e.g. long life lamps and annual inspection).

– For electronic monitoring, where communication to a remote location cannot be provided, describe in Section 3 the technical reason why, along with what mitigation will be applied (e.g. long life lamps and annual inspection).

Section 14 – Indicate the form of marking and lighting that is proposed for the catenary crossing.

Section 15 – **A** – Enter the ground elevation AMSL expressed in metres and feet. This data should match the ground contour elevations for site depiction submitted under Section 3.

B – Enter the height of the object if it is an addition to an existing structure. The height will determine the need for lighting of this object and may affect the heights of intermediate levels of lighting on the structure.

C – Enter the total structure height AGL in metres and feet. The total structure height includes anything mounted on top of the structure, such as antennae, obstruction lights, lightning rods, etc, in addition to the structure itself.

Enter the overall height AMSL. This will be the total of **A** plus **C**.

Section 16 – The survey done by a licensed surveyor attests the conformance of the object height to airport zoning surfaces for the given location.

Canada

Transport Canada | Transports Canada

AERONAUTICAL ASSESSMENT FORM FOR OBSTACLE EVALUATION

Transport Canada number	
Applicant number	

SECTION 1

Owner's Name	Contact Person
City of Hamilton	Winston Wang

Address		
77 James Street North, Suite 400		
City: Hamilton	Province: ON	Postal Code: L3R 4T5
Telephone number (999-999-9999): 905-546-2424 x4092	Fax number (999-999-9999): 905-546-4202	Email Address: winston.wang@hamilton.ca

SECTION 2

Applicant's Name	Contact Person
Cole Engineering Group Ltd.	Shelley Kuan

Address		
70 Valleywood Drive		
City: Markham	Province: ON	Postal Code: L3R 4T5
Telephone number (999-999-9999): 905-940-6161 x371	Fax number (999-999-9999): 905-940-2064	Email Address: SKuan@ColeEngineering.ca

SECTION 3

Description of Proposal (or as attached)

A new Pumping Station is proposed for the City of Hamilton PD7 water system.

The preferred site for the proposed PS is PS Site 1 and it is located at the northeast corner of Rymal Road East and Upper Centennial Parkway. Please see Attachments 1 and 2 for details.

Attachment 1 shows the supporting map with the Topo and datum of the preferred PS Site 1.

Attachment 2 illustrates the location of the PS Site 1 overlaid on the Airport Zoning Regulations Mapping provided to us by the City.

SECTION 4

Nearest Community	Province
Hannon	ON

SECTION 5	SECTION 6
Nearest Aerodrome: John C. Munro International Airport	Have you contacted the aerodrome? ☑ Yes ☐ No
SECTION 7	**SECTION 8**
Notice of: ☑ New Construction ☐ Change to existing structure	Duration: ☑ Permanent ☐ Temporary

SECTION 9

Proposed Construction Date Beginning (yyyy-mm-dd)

2021-05-01 (to be confirmed)

SECTION 10

Temporary Structure

From date (yyyy-mm-dd) n/a To date (yyyy-mm-dd) n/a

Canada

Transport Canada number

SECTION 11

Geographic Coordinates ☑ NAD83 ☐ NAD27 ☐ WGS84

For multiple structures in a grouping, submit geographical coordinates on a seperate spreadsheet (e.g. windfarms, transmission lines)

N Latitude deg 43 min 10 sec 24.9500

W Longitude deg 79 min 46 sec 29.6000

SECTION 12

Marking and Lighting Proposed (refer to Standard 621)

- ☐ Red lights and paint
- ☐ Red and M.I. white lights
- ☐ White M.I. lights
- ☐ Red and H.I. white lights
- ☐ White H.I. lights
- ☑ No painting
- ☐ No lighting
- ☐ Paint marking only
- ☐ Other (provide description):

SECTION 13

Monitoring to Standard 621, article 4.7

- ☐ Visual inspection – 24 hrs
- ☑ [1] Remote indicator – failure alarm
- ☐ Remote indicator – with self-diagnostic
- ☐ [2] Other

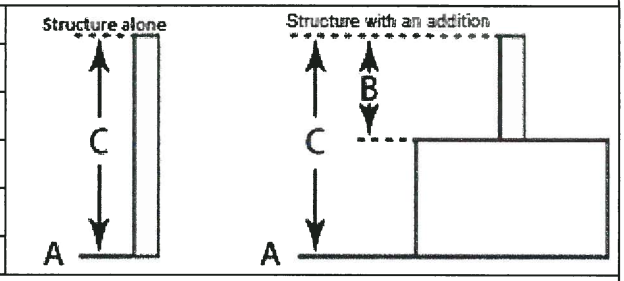
[1] Mitigation to be detailed in Section 3 [2] Justification to be given in Section 3

SECTION 14

Catenary/Cable Crossing

- ☐ Paint supporting structures
- ☐ Cable marker spheres
- ☐ Shore markers
- ☑ Support structure lighting
- ☐ Cable marker lights

SECTION 15	Feet	Metres
A Ground Elevation (AMSL)	695.4	212.0
B Height of an addition to a structure	0	0
C Total structure height including **B** (AGL)	36.1	11.0
Overall height (**A** plus **C**) (AMSL)	731.5	223.0



SECTION 16

Does the proposal comply with ***Airport Zoning Regulations***?

◯ Yes ◯ No ◉ N/A

Where the location of the object is on lands affected by ***Airport Zoning Regulations***, a legal survey is required with the submital.

I hereby certify that all the above statements made by me are true, complete and correct to the best of my knowledge. Also, I agree to mark and/or light and maintain the structure with established marking and lighting standards as necessary.

Shelley Kuan

Name of person filing notice

Shelley Kuan

Signature

2019-03-15

Date (yyyy-mm-dd)

SECTION 17 – TRANSPORT CANADA ASSESSMENT (Transport Canada use only)

Marking and lighting required (as per Standard 621)

- ☐ Night protection required
- ☐ Day protection required
- ☐ Temporary lighting required
- ☐ No protection required

Completion of this form does not constitute authorization for construction nor replace other approvals or permits. See instruction E and F.

Civil Aviation Inspector	Signature	Date (yyyy-mm-dd)

Note 1: This assessment expires 18 months from the date of assessment unless extended, revised, or terminated by the issuing office.

Note 2: If there is a change to the intended installation, a new submittal is required.

Canada

USE AND INSTRUCTIONS FOR COMPLETING FORM

A. Purpose of Form: The purpose of this form is to assess the need and application of marking and lighting for objects that may pose a hazard to aviation and to determine conformance to ***Airport Zoning Regulations***.

B. When to Complete the Form: Completed forms, electronic or paper, are submitted at least 90 days prior to all alterations which increase the structure's height; or for proposed new structures if:

(i) of such a height as to penetrate an airport obstacle limitation surface specified in the *Aerodrome Standards and Recommended Practices Manual* – TP312;

(ii) within 6 km of the centre of an aerodrome;

(iii) higher than 90 m AGL within 3.7 km of the centreline of a recognized VFR route such as, but not limited to, a valley, a railroad, a transmission line, a pipeline, a river or a highway;

(iv) higher than 150 m AGL at any other location; or

(v) a component of a catenary wire crossing where any portion of the wires or supporting structures exceed 90 m AGL;

C. Proponents are encouraged to make submittal for other objects such as skeletal and solid structures, MET (meteorological) towers, power lines and bridges, in order for the Minister to determine if they constitute a hazard to air navigation in accordance with CAR 601.25.

D. Cranes: Submittals are made for cranes that are within 6km of the geographical centre of an aerodrome, regardless of the height of the crane.

E. Supporting Data and Documents

(i) a 1:50,000 scale map, or the most detailed map available showing ground contour elevations to allow determination of the structure's latitude and longitude.

(ii) sketches, plans or blueprints for structures other than radio or TV antennae.

F. This form does not constitute authority for construction.

G. This form neither constitutes nor replaces any approvals, permits or assessments required by NAV CANADA, Industry Canada, other Federal Government departments, Provincial or Municipal land use authorities or any other agency from which approval/assessment is required.

H. Completed applications are to be forwarded to the applicable Transport Canada Regional office listed in Standard 621, Appendix A.

I. A separate application is to be submitted to NAV CANADA. For a detailed description on NAV CANADA's requirements and additional information, refer to the NAV CANADA Land Use Proposal website at www.navcanada.ca

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Abbreviations

AMSL	Above Mean Sea Level
AGL	Above Ground Level
M.I.	Medium Intensity
H.I.	High Intensity
VFR	Visual Flight Rule

Canada

USE AND INSTRUCTIONS FOR COMPLETING FORM (continued)

Section 1 – The Owner of the structure who is responsible for installation of marking and lighting. Include name, address and phone number of a personal contact point as well as the company name.

Section 2 – The Owner's representative who is making application, if other than Section 1 Include name, address and phone number of a personal contact point as well as the company name.

Section 3 – Provide a narrative description of the proposal

(a) – MANDATORY - Indicate the type of structure. (e.g. antenna, crane, building, power line, landfill, water tank, wind farm, moored balloon, kite, catenary/cable crossing, etc.)

(b) – For overhead wires or transmission lines, include size and configuration of wires and their supporting structures (Attach depiction).

(c) – For each pole/support, include coordinates, site elevation, and structure height above ground level or water. For buildings, include site orientation, coordinates of each corner, dimensions, and construction materials. For alterations, explain the alteration thoroughly.

(d) – For a proposed wind farm, include a spreadsheet with Turbine ID, geographic coordinates (in minutes, degrees and seconds), height above ground, and ground elevation.

(e) – For existing structures, thoroughly explain the reason for notifying Transport Canada (e.g. corrections, no record on file with Transport Canada or previous study, etc.).

(f) – For Catenary crossings, the geographic coordinates for all pertinent support structures are provided along with heights AMSL and AGL including the height of wires above ground or water level.

(g) – If available, attach a copy of a documented site survey with the surveyor's certification stating the amount of vertical and horizontal accuracy in feet.

(h) - Description of surrounding environment and structures. Provide photographs of the area of intended installation.

Section 4 – Enter the name of the nearest community, city or town to the site. If the structure is or will be in a community, enter the name of that community.

Section 5 – Enter the name of the nearest aerodrome.

Section 6 – It is recommended that the nearest aerodrome be contacted to resolve any difficulties that the installation may pose to aerodrome operations.

Section 7 – (a) – New Construction would be a structure that has not yet been built.

(b) – Alteration is a change to an existing structure such as the addition of a top mounted antenna, a change to the marking and lighting, a change to power and/or frequency, or a change to the height. The nature of the alteration is included in Section 3 “Description of Proposal”.

(c) – Existing would be a correction to the latitude and/or longitude, a correction to the height, or if filing on an existing structure which has not been assessed. The reason for the notice is included in Section 3 “Description of Proposal”.

Section 8 – A temporary structure would be such as a crane or drilling derrick.

Section 9 – Enter the date for the start of construction.

Section 10 – Enter the time period during which the temporary structure will be in place.

Section 11 – Latitude and longitude must be geographic coordinates, to within the nearest second or to the nearest hundredth of a second if known. For accuracy of the measurement refer to the International Civil Aviation Organization (ICAO) Annex 15 *Aeronautical Information Services*. For multiple structures in a grouping, submit geographical coordinates on a seperate spreadsheet (e.g. windfarms, transmission lines)

Section 12 – Refer to Standard 621 for requirements of marking and various lighting systems.

Section 13 – Indicate the means that will be used to monitor the status of the lighting and identify the occurrence of a failure.

– Where electronic monitoring with "failure alarm" is provided, describe in Section 3 what mitigation will be applied (e.g. long life lamps and annual inspection).

– For electronic monitoring, where communication to a remote location cannot be provided, describe in Section 3 the technical reason why, along with what mitigation will be applied (e.g. long life lamps and annual inspection).

Section 14 – Indicate the form of marking and lighting that is proposed for the catenary crossing.

Section 15 – **A** – Enter the ground elevation AMSL expressed in metres and feet. This data should match the ground contour elevations for site depiction submitted under Section 3.

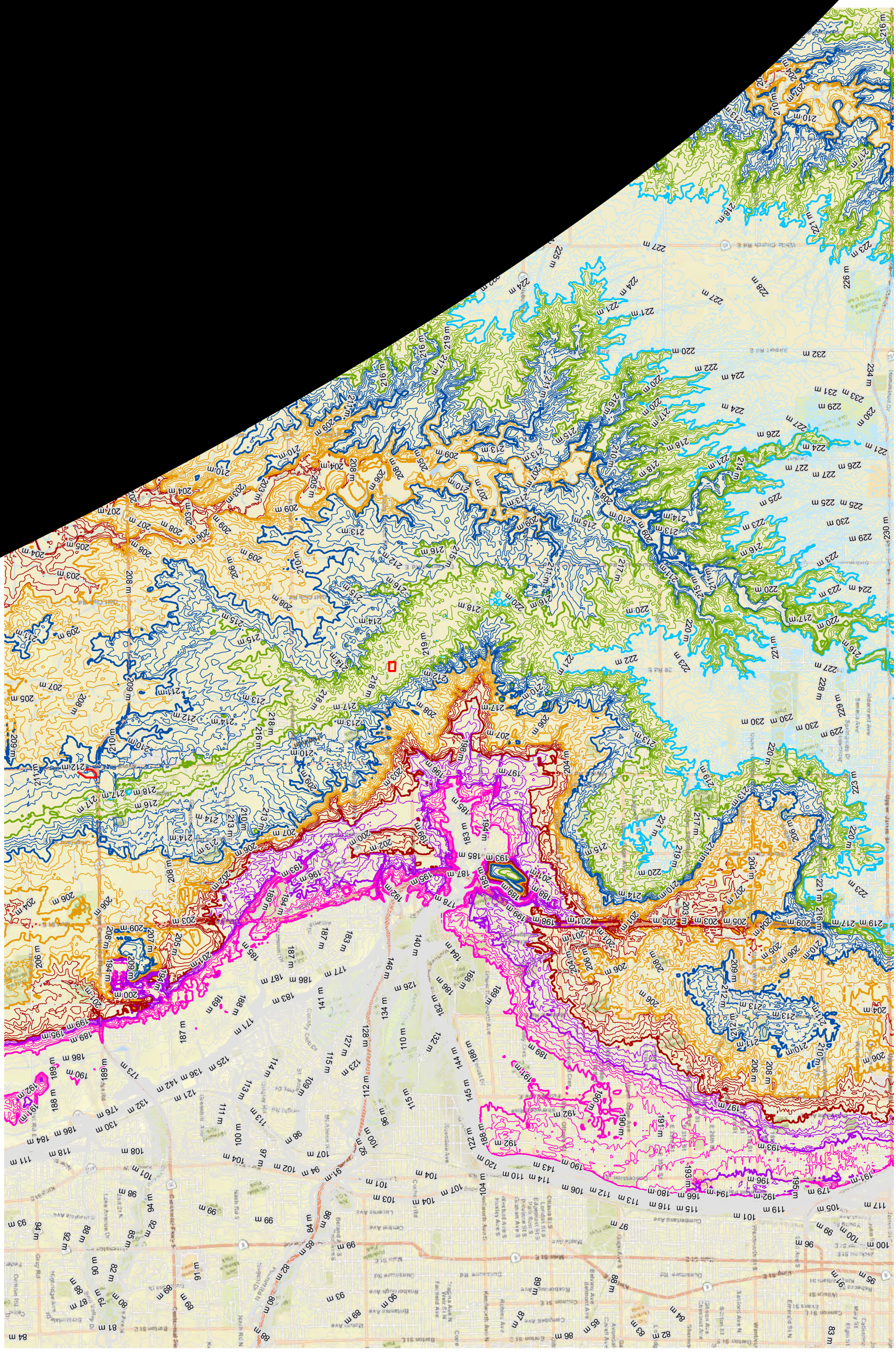
B – Enter the height of the object if it is an addition to an existing structure. The height will determine the need for lighting of this object and may affect the heights of intermediate levels of lighting on the structure.

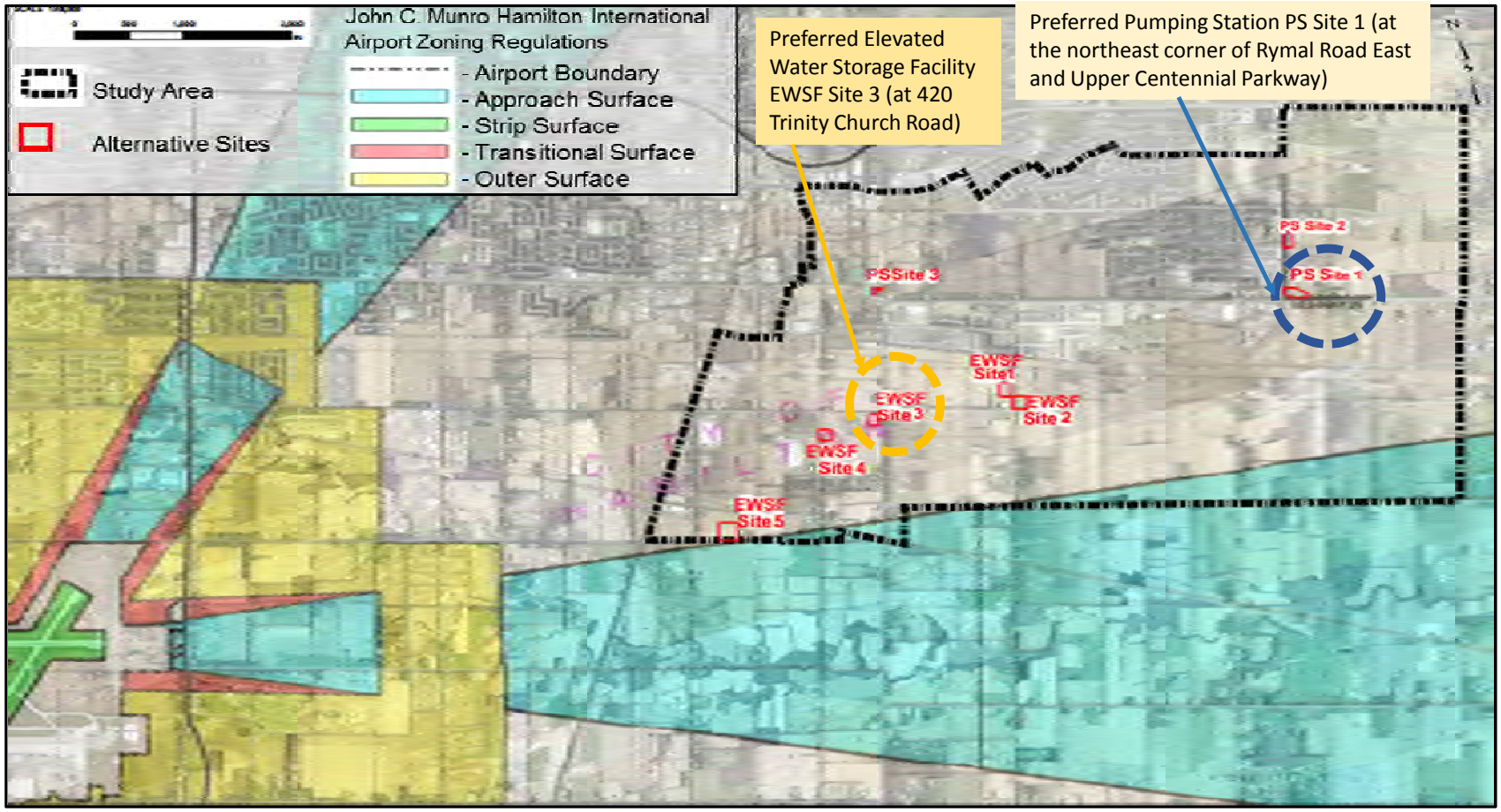
C – Enter the total structure height AGL in metres and feet. The total structure height includes anything mounted on top of the structure, such as antennae, obstruction lights, lightning rods, etc, in addition to the structure itself.

Enter the overall height AMSL. This will be the total of **A** plus **C**.

Section 16 – The survey done by a licensed surveyor attests the conformance of the object height to airport zoning surfaces for the given location.

Canada





Attachment 2 Preferred EWSF Site 3 & PS Site 1 and Airport Zoning Overlay

-----Original Message-----
From: Seto, John [mailto:john.seto@tc.gc.ca]
Sent: March-15-19 3:59 PM
To: Shelley Kuan <SKuan@coleengineering.ca>
Subject: FW: Aeronautical Assessment Form for Obstacle Evaluation_Hamilton PD7 EWSF Site 3 (Rev1)

Good day Shelley,

Thank you for submitting the enclosed amendments to your applications. In our review of the amendments, we noticed a couple of issues we need to follow up on.
1. Height Information - is required in both Feet and Metres.
2. Signature - please sign the form for the pumping station.

Please amend the information of your application and return it to my attention.

Regards,
John Seto

Transport Canada / Transports Canada
Civil Aviation - Ontario / Aviation Civile - Ontario
4900 Yonge St. 4th Floor, Toronto, ON M2N 6A5 / 4900 Rue Yonge, 4 etage, ON M2N 6A5
TTY: 1-800-305-2059
Government of Canada / Gouvernment du Canada

-----Original Message-----
From: Shelley Kuan [mailto:SKuan@coleengineering.ca]
Sent: Thursday, March 14, 2019 7:03 PM
To: ONT Aviation Services / Services aviation ONT (TC) <tc.aviationservicesont-servicesaviationont.tc@tc.gc.ca>
Cc: asanneh@flyhamilton.ca; Winston.Wang@hamilton.ca; Philip Gray <pgray@coleengineering.ca>; Rhona Scott <rscott@coleengineering.ca>
Subject: Aeronautical Assessment Form for Obstacle Evaluation_Hamilton PD7 EWSF Site 3 (Rev1)

Dear Sir/Madam,

The updated forms for both the proposed Elevated Water Storage Facility (EWSF Site 3) and Pumping Station (PS Site 1) are attached.

Please replace the previous forms with these updated ones (as attached).

Please feel free to contact us if you have any questions.

Thank you.

Shelley Kuan, P. Eng.
Hydraulic Technical Manager
Modelling Lead
Infrastructure Planning

Cole Engineering Group Ltd.
70 Valleywood Drive, Markham, ON L3R 4T5
T: 905-940-6161 Ext. 371 Tor. Line: 905-987-6161
F: 905-940-2064
E: skuan@ColeEngineering.ca
www.ColeEngineering.ca

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-----Original Message-----
From: ONT Aviation Services / Services aviation ONT (TC) [mailto:tc.aviationservicesont-servicesaviationont.tc@tc.gc.ca]
Sent: March-12-19 7:38 PM
To: Shelley Kuan <SKuan@coleengineering.ca>
Subject: Thank you for contacting Transport Canada, Civil Aviation / Merci d'avoir contacté l'Aviation civile de Transports Canada

La version française suit

Thank you for contacting Transport Canada, Civil Aviation.

Your email has been received and was automatically sent to our new Civil Aviation Services mailbox at tc.aviationservicesont-servicesaviationont.tc@tc.gc.ca<mailto:tc.aviationservicesont-servicesaviationont.tc@tc.gc.ca>. In future, please use our new email address when contacting us. If you have used our new email address in this inquiry, thank you for your cooperation.

Your request will be processed in the order in which it was received and in accordance with Civil Aviation's Service Standards found on our website at http://www.tc.gc.ca/eng/civilaviation/opssvs/servicestandards-549.htm .

To speak with a staff member regarding your request, please call 1-800-305-2059 (fee payments can also be made via telephone at this number).

To provide feedback, lodge a complaint and/or give us a compliment about our services, please write us at services@tc.gc.ca<mailto:services@tc.gc.ca> .

Did you know you could pay for a service online? Visit the Online Payment System at http://www.canada.ca/payments-air.

Merci d'avoir contacté l'Aviation civile de Transports Canada.

Votre courriel a été reçu et a été envoyé automatiquement à notre nouvelle boîte de réception des services de l'Aviation civile à tc.aviationservicesont-servicesaviationont.tc@tc.gc.ca<mailto:tc.aviationservicesont-servicesaviationont.tc@tc.gc.ca>. À l'avenir, veuillez utiliser notre nouvelle adresse courriel pour communiquer avec nous. Si vous avez utilisé notre nouvelle adresse courriel dans cette enquête, nous vous remercions de votre coopération.

Votre demande sera traitée dans l'ordre dans laquelle elle a été reçue et conformément aux normes de service de l'Aviation civile publiées sur notre site Web au http://www.tc.gc.ca/fra/aviationcivile/opssvs/normesdeservice-549.htm.

Pour parler à un membre du personnel au sujet de votre demande, composez le 1-800-305-2059 (les paiements de droits peuvent également être effectués par téléphone à ce numéro).

Pour fournir des commentaires, déposer une plainte et/ou pour manifester votre satisfaction au sujet de nos services, veuillez nous écrire à services@tc.gc.ca<mailto:services@tc.gc.ca>.

Saviez-vous que vous pouviez payer des frais pour un service en ligne? Visitez le Système de paiement en ligne au http://www.canada.ca/paiements-air.

From: Shelley Kuan
Sent: March-12-19 7:06 PM
To: 'tc.aviationservicesont-servicesaviationont.tc@tc.gc.ca' <tc.aviationservicesont-servicesaviationont.tc@tc.gc.ca>
Cc: 'asanneh@flyhamilton.ca' <asanneh@flyhamilton.ca>; 'Winston.Wang@hamilton.ca' <Winston.Wang@hamilton.ca>; Philip Gray <pgray@coleengineering.ca>; Rhona Scott <rscott@coleengineering.ca>
Subject: Aeronautical Assessment Form for Obstacle Evaluation_Hamilton PD7 EWSF Site 3

Dear Sir/Madam,

On behalf of the City of Hamilton, Cole Engineering Group Ltd. (COLE) is currently undertaking a Schedule B Municipal Class Environmental Assessment (EA) for a new Elevated Water Storage Facility (EWSF/RES) and a Pumping Station (PS) in the City of Hamilton (Pressure District 7). At our Public Information Centre PIC#2 we presented the preferred site for the Elevated Water Storage Facility (EWSF) as Site 3. Please open the City's website for further details: www.hamilton.ca/PD7waterfacilities.

As suggested by Mr. Sanneh (Manager, Airport Planning and Regulatory Affairs) of John C. Munro Hamilton International Airport, we are submitting an Aeronautical Assessment Form (for Obstacle Evaluation) with supporting documentations for your review on the proposed (or preferred) EWSF Site 3. Attachment 1 shows the supporting map showing the topo and datum of the preferred EWSF Site 3.

For your information, Attachment 2 illustrates the location of the EWSF Site 3 overlaid on the Airport Zoning Regulations mapping provided to us by the City. Since EWSF Site 3 was selected as the preferred EWSF and the only site used for the Aeronautical Assessment Form for Obstacle Evaluation, the locations for other alternative sites (e.g., EWSF Sites 1,2,4 and 5) are provided as additional information only. In the event that any storage facility site, other than EWSF Site 3 becomes the preferred site, another Aeronautical Assessment Form for Obstacle Evaluation will be completed in the future.

As showed in Attachment 2, it appears that the EWSF Site 3 is located outside of the airport zoned areas. We would appreciate your comments or concerns that you or your staff may have, after reviewing the attached Aeronautical Assessment Form (for Obstacle Evaluation) with supporting documentations.

Please do not hesitate to contact us, if you have any questions or require additional information.

Thank you.

Shelley Kuan, P. Eng.
Hydraulic Technical Manager
Modelling Lead
Infrastructure Planning

Cole Engineering Group Ltd.
70 Valleywood Drive, Markham, ON L3R 4T5
T: 905-940-6161 Ext. 371 Tor. Line: 905-987-6161
F: 905-940-2064
E: skuan@ColeEngineering.ca
www.ColeEngineering.ca

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From: Land Use [mailto:LandUse@navcanada.ca]
Sent: April-02-19 10:47 AM
To: Winston Wang <Winston.Wang@hamilton.ca>
Cc: Shelley Kuan <SKuan@coleengineering.ca>; , Ontario Region, Transport Canada <tc.aviationservicesont-servicesaviationont.tc@tc.gc.ca>; Cole Horncastle, Hamilton - CYHM <chorncastle@flyhamilton.ca>; Abu Sanneh, CYHM - Hamilton International Airport <asanneh@flyhamilton.ca>; Daniel Fox, Hamilton - CYHM <DFox@flyhamilton.ca>; Bronwen Ainsworth, Air Navigation Data <bronwen.ainsworth@airnavigation.com>; Charles Cormier, <chascorm@rogers.com>; , IDS North America Ltd. <navcanada@idscorporation.com>; Dave Scott, JetPro Consultants <dave.scott@jetpro.ca>
Subject: 19-0895: Water Tank (420 Trinity Church Road) - Hannon, ON

Hello Winston,

Please find attached a letter from NAV CANADA regarding your water tank (420 Trinity Church Road) submitted by Shelley Kuan on 2019-03-13.

We ask that you notify us upon completion of construction. This notification requirement can be satisfactorily met by returning a completed, signed copy of the attached form to landuse@navcanada.ca

If you have any questions, please don't hesitate to contact me.

Regards,

Mark Tarrant
Land Use Specialist
AERONAUTICAL INFORMATION MANAGEMENT (AIM) NAV CANADA
Personal: Mark.Tarrant@navcanada.ca
Group: LandUse@navcanada.ca
1601 Tom Roberts Avenue, Ottawa, ON K1V 1E5
T. (613) 248-3930 / Toll-free (866) 577-0247 / F. (613) 248-4094
www.navcanada.ca

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April 2, 2019

Your file
420 Trinity Church Road
Our file
19-0895

Mr. Winston Wang
City of Hamilton
77 James Street North, Suite 400
Hamilton, ON
L8R 3K3

RE: Other Permanent Structure(s): Water Tank - Hannon, ON
(N43° 10' 22.6300" W79° 49' 30.0500" / 154.1995' AGL / 871.0630' AMSL)

Mr. Wang,

We have evaluated the captioned proposal and NAV CANADA has no objection to the project as submitted. The subject proposal data has been distributed to external organizations for assessment of effects on procedures they maintain; however, the organizations have not been given adequate opportunity to respond due to the short timeline provided. The external design organizations have been provided your contact information and will contact you directly if any concerns arise during their evaluation.

In the interest of aviation safety, it is incumbent on NAV CANADA to maintain up-to-date aeronautical publications. To assist us in that end, we ask that you notify us upon completion of construction. This notification requirement can be satisfactorily met by returning a completed, signed copy of the attached form by e-mail at landuse@navcanada.ca or fax at 613-248-4094. In the event that you should decide not to proceed with this project or if the structure is dismantled, please advise us accordingly so that we may formally close the file.

If you have any questions, contact the Land Use Department by telephone at 1-866-577-0247 or e-mail at landuse@navcanada.ca.

NAV CANADA's land use evaluation is valid for a period of 12 months. Our assessment is limited to the impact of the proposed physical structure on the air navigation system and installations; it neither constitutes nor replaces any approvals or permits required by Transport Canada, other Federal Government departments, Provincial or Municipal land use authorities or any other agency from which approval is required. Innovation, Science and Economic Development Canada addresses any spectrum management issues that may arise from your proposal and consults with NAV CANADA engineering as deemed necessary.

This document contains information proprietary to NAV CANADA. Any disclosure or use of this information or any reproduction of this document for other than the specific purpose for which it is intended is expressly prohibited except as NAV CANADA may otherwise agree in writing.

Olivier Meier | NAV CANADA
Manager - Land Use and NOTAM Office

cc ONTR - Ontario Region, Transport Canada
CYHM - HAMILTON
Air Navigation Data
C. Cormier
IDS NA
JetPro

NAV CANADA

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Construction Completion Notification

File Information

NC File No	TC File No	Proponent File No
19-0895		420 Trinity Church Road

To:	**NAV CANADA, Land Use** 1601 Tom Roberts Ave. Ottawa, ON K1V 1E5 **E-mail: landuse@navcanada.ca** Fax: 613-248-4094	***From:***	Mr. Winston Wang City of Hamilton 77 James Street North, Suite 400 Hamilton, ON L8R 3K3

Site Information:	***Nearest town:***	Hannon, ON	
	Latitude (N)	N43° 10’ 22.6300”	
	Longitude (W)	W79° 49’ 30.0500”	
	Ground (above sea level)	716.8635	***ft***
	Structure Height (above ground level)	154.1995	***ft***
	Total Height (above sea level)	871.0630	***ft***

Construction Timeline

In the interest of aviation safety, NAV CANADA must be notified upon completion of construction. Please enter the date of completion of construction in the space provided below along with the lighting and marking information (as required by Transport Canada).

Construction completion date: _____

Estimated removal date:
*(if temporary structure)**:*** _____

Structure Lighting and/or Marking

All objects, regardless of their height, that have been assessed by Transport Canada as constituting a hazard to air navigation require marking and/or lighting in accordance with the CARs (Canadian Aviation Regulations) and should be marked and/or lighted to meet the standards specified in CAR 621.

Structure is lighted: ***Yes*** ☐ ***No*** ☐

Structure is marked: ***Yes*** ☐ ***No*** ☐

I hereby certify that the location, height/elevation, construction dates, as well as lighting and marking information contained herein to be true and accurate.

Name	***Signature***
Title	***Date***

OFFICE USE ONLY:

AIS Office:	IPD - Toronto FIR	***Advise AIS:***	Yes
NOTAM:	No		
April 2, 2019			

From: Shelley Kuan
Sent: March-14-19 7:08 PM
To: 'Land Use' <LandUse@navcanada.ca>
Cc: 'asanneh@flyhamilton.ca' <asanneh@flyhamilton.ca>; 'Winston.Wang@hamilton.ca' <Winston.Wang@hamilton.ca>; Philip Gray <pgray@coleengineering.ca>; Rhona Scott <rscott@coleengineering.ca>
Subject: RE: 19-0895 - RE: Land Use Proposal Submission Form_Hamilton PD7 EWSF Site 3

Hi Diane,

Enclosed please find the updated Attachments 1 and 2.

Please feel free to contact us if you have any questions.

Thank you.

Shelley Kuan, P. Eng.
Hydraulic Technical Manager
Modelling Lead
Infrastructure Planning

Cole Engineering Group Ltd.
70 Valleywood Drive, Markham, ON L3R 4T5
T: 905-940-6161 Ext. 371 Tor. Line: 905-987-6161
F: 905-940-2064
E: skuan@ColeEngineering.ca
www.ColeEngineering.ca

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LAND USE PROPOSAL SUBMISSION FORM

Date Received by NAV CANADA	NC file N°./ Ref N°	TC File N° / Ref N°

GENERAL INFORMATION:

Company/Owner Name: City of Hamilton		Contact Person: Winston Wang	
Address: 77 James Street North, Suite 400		City: Hamilton	Prov: ON	Postal Code: L8R 3K3
Tel: 905-546-2424 x4092	Cell:	Email: Winston.Wang@hamilton.ca	
Applicant: Cole Engineering Group Ltd.		Contact Person: Shelley Kuan	
Address: 70 Valleywood Drive		City: Markham	Prov: ON	Postal Code: L3R 4T5
Tel: 905-940-6161 x371	Cell:	Email: SKuan@ColeEngineering.ca	

DETAILS OF PROPOSAL:

- Please provide the data in the highest resolution as it was obtained.
- For geographic coordinates, provide up to four (4) decimal places of a second.
- For ground elevation and tower height, provide up to four (4) decimal places of a metre or foot.

Project #, Street Address, etc.: 420 Trinity Church Road	Nearest Town, Province: Hannon, ON

Geographic Coordinates of Site in NAD 83: (Degrees / Minutes / Seconds)
Lat. N 43 / 10 / 22.6300 Long. W 79 / 49 / 30.0500 **For submissions containing more than one location please complete the Multiple Obstacle Template and return in Excel format. (Examples: Linear Structures, Wind Farms, Building Corner Coordinates, Multiple Cranes, etc.)**

Type of Structure: Elevated Water Storage Facility (Water Tank)	New Structure? ☒Yes ☐No	Height Added (If Existing)	n/a	☐ft ☐m
Cranes to be used? ☒Yes ☐ No **If Yes: Crane details shall be submitted separately if not included with this form.**		Ground Elevation (Above Sea Level)	218.5	☐ft ☒m
Dimensions: (to be determined		Structure Height (Above Ground Level) **Including all appurtenances**	47.0	☐ft ☒m
Materials & Roof Shape (If Building): (to be determined)		Total Height (Above Sea Level) Structure Height + Ground Elevation	265.5	☐ft ☒m

Proposed Construction Start Date: May 1, 2020 (to be confirmed)	Approximate Duration of Construction: 18 months	
If Temporary Structure, indicate Removal Date: (to be determined)	From: 08:00 hrs	To: 18:00 hrs

Comments: Crane Details will be submitted separately during design stage.

ELECTRONIC / TELECOMMUNICATION INTERFERENCE (Check off the items that may cause interference and provide details)

High Voltage Equipment	☐ Details
Arc Welding	☐ Details (Arc Welding may be required during construction period, to be determined)
Radar Emission	☐ Details
High Powered Transmissions	☐ Details
VHF Radio	☐ Details
Other	☐ Details

OBSTRUCTION TO VISION ON AIRPORT WITH NAV CANADA SERVICES/CONTROL TOWER, FSS, CARS:	
Check the items that may cause obstructions to vision to the installation:	
Line of Sight	☐ Details (to be determined)
Generation of Smoke/Vapour	☐ Details
Reflectivity	☐ Details
Aircraft Parking	☐ Details
Exterior Lighting	☐ Details (to be determined)

MAPS/DRAWINGS (Required for Supporting Documentation)

Proposals for structures not adjacent to an airport OR on airport without NAV CANADA Services

- 1:50,000 topographical map section with the location of the proposed structure clearly marked. The map must contain a legend indicating the map datum (NAD27 or 83) and the contour interval.
- Legal survey (if available)

Proposals adjacent within 2 km from an airport with FSS, Control Tower, Localizer or ILS navigational aids

- 1:50,000 topographical map section with the location of the proposed structure clearly marked. The map must contain a legend indicating the map datum (NAD27 or 83) and the contour interval.
- For localizer/ILS runways, site plan at 1:2000 scale, with distance bar, showing 90° distances to nearest runway centre line/centre line extension, and distance to nearest runway threshold. Note: reference TP 1247 to determine requirement when along an extended centerline of a localizer/ILS runway up to 6 km.
- For buildings, architectural drawings in both plan view (with north arrow indicator) detailing orientation of building and dimensions; and profile view detailing maximum height of building (including rooftop structures) and elevation at grade level.

Proposals on an airport with FSS or Control Tower Services, Weather Services, Localizer or ILS navigational aids

- 1:50,000 topographical map section with the location of the proposed structure clearly marked. The map must contain a legend indicating the map datum (NAD27 or 83) and the contour interval.
- Airport plan at 1:500 scale, with distance bar, showing orientation of structures including vehicle and aircraft entry/exit points.
- For sites with localizer/ILS runways site plan at 1:2000 scale, with distance bar, showing 90° distances to nearest runway centre line/centre line extension, taxiway, and distance to nearest runway threshold. Note: will require drawings for structures up to 6km along the extended centreline of the localizer/ILS runway.
- Site plan depicting entire airport and location of proposed structures and excavations/trenching include depth.
- Site plans at 1:2000 scale, with distance bar, showing line of sight to the mandatory viewing areas (runways and taxiways) identifying existing structures along the sightline in both cross section (profile) view and plan view format. Refer to NAV CANADA sightline requirements for criteria of mandatory viewing areas.
- For buildings, architectural drawings in both plan view (with north arrow indicator) detailing orientation of building and dimensions; and profile view detailing maximum height of building (including rooftop structures) and elevation at grade level.

Applicant/Representative Signature	Print Name	Date
	Shelley Kuan	March 14, 2019

For a detailed description on NAV CANADA's requirements and additional information, refer to the NAV CANADA website at www.navcanada.ca > PRODUCTS & SERVICES > Land Use Program.

NAV CANADA's evaluation of land use proposals and construction proposals neither constitutes nor replaces any approvals or permits required by Transport Canada, other Federal Government Departments, Provincial or Municipal land use authorities, or any agency from which any approval is required.

Please Submit by email to landuse@navcanada.ca

Processing Times

NAV CANADA will endeavour to provide a response within 8 to12 weeks of receipt of the proposal. The accuracy and completeness of the initial documentation provided to NAV CANADA, and consequently the cooperation of the proponent to quickly rectify any deficiencies/inaccuracies will go far to expedite the process and ensure a timely response. Electronic submissions will also decrease the time required to properly assess a submission.

Distribution

Specific information submitted to NAV CANADA's Land Use department (that is, coordinates, structure heights and possibly owner's contact information) will be distributed externally. These external stakeholders include but are not limited to: Transport Canada, Aerodromes, NORAD, External Design Organizations (EDOs), Department of Defense (DND) and Environment and Climate Change Canada (ECCC) for review of services that they are responsible for and maintain.

Contact Us

NAV CANADA
Aeronautical Information Management
AIM Instrument Flight Procedure Service Delivery / Land Use Office
1601 Tom Roberts Ave
Ottawa, ON K1V 1E5

Website: www.navcanada.ca > PRODUCTS & SERVICES > Land Use Program

Toll Free: (866) 577-0247
Fax: (613) 248-4094
Email: landuse@navcanada.ca ***Preferred method for submission***

Obstruction Marking and Lighting

Transport Canada is required to perform an assessment on the requirement for obstruction marking and lighting of man-made structures per Canadian Aviation Regulations (CARs). Obstructions are assessed by Transport Canada through the Aeronautical Assessment Form Process. *Note: outages in obstruction lighting deemed a requirement by Transport Canada are to be reported to the appropriate NAV CANADA Flight Information Centre (FIC) as per CAR 601.28.*

Kamloops FIC 1-866-541-4101 *Edmonton FIC 1-866-541-4102* *Winnipeg FIC 1-866-541-4103*

London FIC 1-866-541-4104 *Quebec FIC 1-866-541-4105*

Land Use Proposal Submission Form Instructions

This section provides additional instructions for each section of the Land Use Submission Form.

Applicant: If not the same as owner, the name of consultant, contractor, or other who is applying on behalf of the owner. Note: all correspondence will be forwarded to the applicant.

Approximate Duration of Construction: Specify time of operation for temporary structures of short duration. This may be required for NOTAMing purposes.

Arc Welding: If any construction taking place on your site requires arc welding, please complete this field. Specify the anticipated duration of arc welding. Welders can potentially interfere with the reliability of the ILS systems of an airport and must therefore be brought to our attention.

Blasting Operations: The following additional information will be required for blasting activities for a Land Use Assessment and possible NOTAM / publication action:

Blast Area: Geographic coordinates (latitude & longitude in NAD83) of the blasting area corners or centre coordinates with a blasting radius.

Blasting Times: specify period during the day (for example, daylight hours or 0800 to 1600 local time Monday to Friday, one-time event, etc.).

Duration of Operation: estimated amount of time (months/years) expected to operate at specified location.

Elevations: Highest ground elevation (above sea level) within blasting zone, maximum height of fly rock or debris (above ground level), and shockwave/overpressure height (above ground level, if applicable). Indicate use of blast mats (if applicable).

Topographical map: (1:50 000 scale) depicting the blasting area.

Company/Owner Name: Owner of the proposed structure or development.

Cranes: For construction projects (such as a new building, placement of roof top structures, flare stack, etc.) where a crane will be required and where the maximum operating height will be higher than the overall height of the proposed structure, the applicant is to provide details for both mobile and temporary cranes on a separate submission form **at least 30 working days in advance**. We ask that crane application(s) be cross referenced to the associated construction project and provide detailed crane specifications such as maximum height, boom length and swing radius. A drawing detailing the crane specifications and type would be beneficial, please reference the NAV CANADA Land Use Program web page for more details. *Note: A drawing showing the required specifications indicated below will be beneficial.*

> *Maximum Swing Radius:* In a manner similar to a large structure, a crane with a large swing radius can create a severe horizontal angle with respect to Navigation/Communication/Surveillance equipment, thereby compromising coverage. The maximum swing radius shall be provided so we can properly assess the situation and determine whether or not the swing radius is within an acceptable level. Note: maximum swing radius refers to the maximum that will be achieved during construction and not the maximum achievable swing of the crane (unless that specific setting is being used in the construction).
>
> *Boom Length:* This information is needed to determine the vertical angle of the crane with respect to any nearby NAV CANADA facilities.
>
> *Max Height Achieved During Construction:* This information is needed to determine the worst-case scenario for vertical angles between the crane and nearby NAV CANADA facilities.

Date Received: Represents the date the application was received by NAV CANADA Land Use.

Details of Proposal: Project Number, Street address, etc.: A project name, number or street address that can be traced should the owner/applicant require follow-up status on a project.

Dimensions: Indicate structure design specifications. Certain equipment used by NAV CANADA (the radar equipment in particular) can potentially be disrupted by those structures which possess large horizontal dimensions. Such scenarios are assessed by determining the structure's horizontal angle with respect to the NAV CANADA site. For Cranes, include maximum height to which the crane will be raised, boom length and swing radius. A drawing with the specs is desired.

From / To:
Indicate the time of the day when the structure will be raised. For example: 08:00, 13:00
Indicate the time of the day when the structure will be lowered. For example: 11:00, 17:00

Geographic Coordinates: The geographic location in latitude and longitude of the proposed structure/development. Coordinates must be provided in degrees, minutes, and seconds for NOTAM and database updating purposes. It is an ICAO (International Civil Aviation Organization) requirement to provide accuracy to within 1/100th of a second.
For example, N46° 06' 44.67" W064° 40' 43.25".

Geodetic Datum: Coordinates are to be provided in NAD83 only. NAD 27 or UTM coordinates must be converted into the required format; the following are Natural Resources Canada online transformation links (these may change without notice):

NAD 27/83 and Geographic/UTM conversions: http://webapp.geod.nrcan.gc.ca/geod/tools-outils/ntv2.php?locale=en

NAD 27/83 and Geographic/UTM conversions: http://webapp.geod.nrcan.gc.ca/geod/tools-outils/trx.php

Reference the Natural Resources Canada webpage for information on this topic.

Ground Elevation: Should be consistent with the contour interval details shown on the 1:50,000 topographical chart. *Note: GPS readings (when not surveyed) or Google Earth readings are not considered reliable information. Please refer to topographical maps containing contour information or surveyed data. Where ground elevation has been surveyed, the finished grade is to be provided.*

Height Added: The structure currently exists. Specify any increase in height due to an addition.

High Powered Transmission: Such transmissions include AM, FM, or television broadcast signals. Such equipment should typically be located at least 8 km from NAV CANADA facilities. However, any equipment at the proposed site which falls under this category must be mentioned here.

High Voltage Equipment: Any equipment which carries a voltage of at least 2 kV must be mentioned here as such equipment can create electrical interference with NAV CANADA's radar systems. Voltages over 100 kV are especially worthy of mention, as they will potentially interfere with, not only the radar systems, but the ILS systems as well.

Linear Group of Structures: Cable crossing, telephone or power line, should have a beginning and end point of the line. Should there be intersection points along the route, applicant to provide a spreadsheet containing the geographic coordinates and ground elevation.

Note: Groups of Structures (Linear or Non-Linear): Groups of structures that are sufficiently close together can disrupt line of sight radio frequency (RF) coverage in a manner similar to a single, large structure. Therefore, a drawing of the group's layout is required in order to determine its bearing with respect to a NAV CANADA facility. From here, a horizontal angle between the site and the group of structures can be determined in order to assess the risk of coverage shadowing. Note: this requirement will be in addition to the map requirements listed on page 2 of the Land Use Proposal Submission Form.

MAPS/DRAWINGS

1:50,000 topographical map 8.5"x11" sectional with the location of the proposed structure clearly marked. The map submission must contain a legend indicating the map datum (NAD27 or 83) and the contour interval: NAV CANADA will accept the equivalent to the topographical maps produced by Natural Resources Canada which can be obtained digitally (by various mapping software companies) or in paper copy at most map supply stores. This will allow the Land Use Office to confirm possible discrepancies between the location shown on the map and the ground and geographic coordinates provided on the form. It will assist us in referencing where the proposed structure is with respect to the nearest airport, as well as any nearby NAV CANADA sites, and to reference the structures location within an instrument procedure design to determine possible penetration of the obstacle limitation surface on published instrument flight procedures.

Site Plan Depicting Entire Airport and Location of proposed structures: In cases where the proposed structure is close to an airport, within 6 km, or on an airport with a localizer/ILS (Instrument Landing System) runway, it is important to determine where the structure is with respect to any ILS at the airport. For this reason, site plans should include the *entire airport* and have the airport zoomed in as close as possible while still showing the proposed site in its entirety.

Proposals adjacent within 2 km from an airport with FSS or Control Tower: Certain equipment used by NAV CANADA (the radar equipment in particular) can potentially be disrupted by structures that possess large horizontal dimensions. Such scenarios are assessed by determining the structure's horizontal angle with respect to the site in question. This angle cannot be determined unless all horizontal dimensions and orientation of the structure are provided as well as the structure's bearing (that is, the map should include a north arrow).

For localizer/ILS runways, site plan with distance bar at 1:2,000 scale measure distances based at 90° to nearest runway centerline/extended runway centerline, and distance to nearest runway threshold. *Note: reference TP 1247 to determine requirement when along an extended centerline of a localizer runway up to 6 km.*

Materials and Roof Shape: Indicate only the dominant materials of the structure, along with any metal which may exist. Indicate whether or not the roof (if applicable) of the structure is flat or sloped. *Note: Certain materials (such as metal) can cause undesirable reflections if they are sufficiently close to NAV CANADA equipment. Mentioning every material being used in the development is unnecessary, but metal in particular is worthy of mention, regardless of whether or not it is the dominant component of the structure. For example: A windmill made entirely of fibreglass with metal strips outlining the blades.*

Metres/Feet: Please identify whether heights provided are in feet or metres. All values will be converted into feet in the Land Use assessment and Notice of Construction as this is the required format for aeronautical publications and database purposes.

All metric/imperial conversions will be calculated as follows:

- Feet to Metres: To obtain metres, multiply the value (in feet) by 0.3048.
- Metres to Feet: To obtain feet, divide the value (in metres) by 0.3048.

NC File Number: If this submission is an amendment or is associated to a previous submission, applicant to indicate NAV CANADA file number assigned to the associated land use submission. For example, Revision to 07-0001 or Reference 07-0001 (building application).

Nearest Town: Closest town to where the development/project will take place.

New Structure: Replacement of a structure is considered a new structure; however, details on the old location and original owner are to be provided in the comments section for NAV CANADA database management. If submitting for an existing structure, NAV CANADA will consider the structure as 'new' if it is not currently recorded in our obstacle database.

OBSTRUCTION TO VISION ON OR ADJACENT TO AN AIRPORT WITH NAV CANADA SERVICES / CONTROL TOWER, FSS CARS: Controller/Specialist visibility requirements are based on dimensions defined in TP 312, Aerodrome Standards & Recommended Practices and TP308, Criteria for the Development of Instrument Procedures. These Transport Canada publications define the airspace around aerodromes that has to be maintained free from obstacles to protect aircraft during either "an entirely visual approach or during the visual segment of an instrument approach". An aircraft on approach should be somewhere within this defined airspace, thus, controllers and specialists require line-of-sight to the areas overlying (above) these obstacle limitation surfaces. It is important to note that structures which meet these obstacle limitation surfaces could still interfere with controller/specialist line-of-sight.

Line of Sight: All aerodrome manoeuvring surfaces, unobstructed line-of-sight from the Tower Cab to the mandatory viewing area shall be provided. Line-of-sight is defined as a straight line from the 'ideal' controller/specialist eye-level position, established at 122 cm (48 in or 4 ft) above the floor and 91 cm (36 in) back from the perpendicular glass line, to any object in the mandatory viewing area. Line-of-sight shall not be obstructed by structures, parked aircraft, large vehicles and surrounding terrain/landscaping. Line-of-sight over buildings or other structures shall have a suitable margin of clearance to allow for snow build-up.

Generation of Smoke/Vapour: Line-of-sight can be impaired by visible contaminants such as steam, or heat distortion patterns. Consideration shall also be given to local weather phenomena that would restrict visibility due to fog or industrial haze from off airport sources.

Reflectivity: Line-of-sight can be impaired by direct or indirect sun glare and external light sources such as apron lights, parking area lights, street lights, or reflective surfaces (water pooling).

Aircraft Parking: Line-of-sight can be obstructed by structures such as parked aircraft, large vehicles and surrounding terrain/landscaping.

Exterior Lighting: Line-of-sight can be impaired by external light sources such as apron lights, parking area lights, street lights.

Other: Any high-powered electronic or telecommunications equipment which does not fall under the preceding categories should be brought to our attention if they can potentially interfere with equipment.

Radar Emission: High powered radio frequencies (in the GHz range) will potentially interfere with NAV CANADA radar performance. Any high-powered frequencies originating from your proposed structure must be brought to the attention of NAV CANADA.

Reference: TP 1247 Land Use in the Vicinity of Airports

Runway Certification Changes: To ensure Instrument Procedures meet design criteria requirements, NAV CANADA must be informed of any changes to runway certification (for example, precision to non-precision, non-precision to non-instrument, etc.). This includes temporary certification changes or changes occurring during a runway closure (the instrument procedure serving a closed runway may still be used for circling or other purposes).

Structure Height: This is the overall height of the structure above ground level.

Buildings: Include roof top structures such as, antennas, advertising boards, architectural features or mechanical rooms above the building height.

Communication Towers: Include the tower structure itself plus all appurtenances such as antennas, lightning rods, equipment, and obstruction lights.

Wind turbines: Overall height of the structure including blade radius (blade in the 12 o'clock position); and to include height at the hub and blade length.

Cranes: Maximum heights to which the crane will be raised when on site include height of mobile crane if used to install a tower crane.

TC Number: Applicant to provide the Transport Canada file number if known.

Temporary Structure: For structures with a planned removal date such as drilling rigs, cranes, meteorological towers, etc., please indicate the estimated removal date.

Total Height: Ground elevation plus the structure height at its highest point.

Type of Structure: The type of structure; for example, Hotel, Drilling Rig, Cranes, Hangar, Development, Wind Turbine, Communication Tower, Meteorological Tower, Flare Stack, Telephone/Transmission line, Cable Crossing, etc. *Note, where the structure is a flag pole, dimensions of maximum flag size is to be stipulated.* Should cranes be required during building construction, please refer to the Cranes section.

Tower or Support Structures: Applicant to indicate whether they are guyed or self-support structures

Guyed Towers: Applicant may be required to provide drawing with specifications on number of guyed lines, orientation of the structure (with north arrow) in both plan and profile view if available. Drawings may be required if the proposed structure is in close proximity to a NAV CANADA facility.

Self-Support Towers: Applicant to provide a profile view detailing the dimensions of the structure if available. *Note: may be required if the proposed structure is located within 2 km of a NAV CANADA facility.*

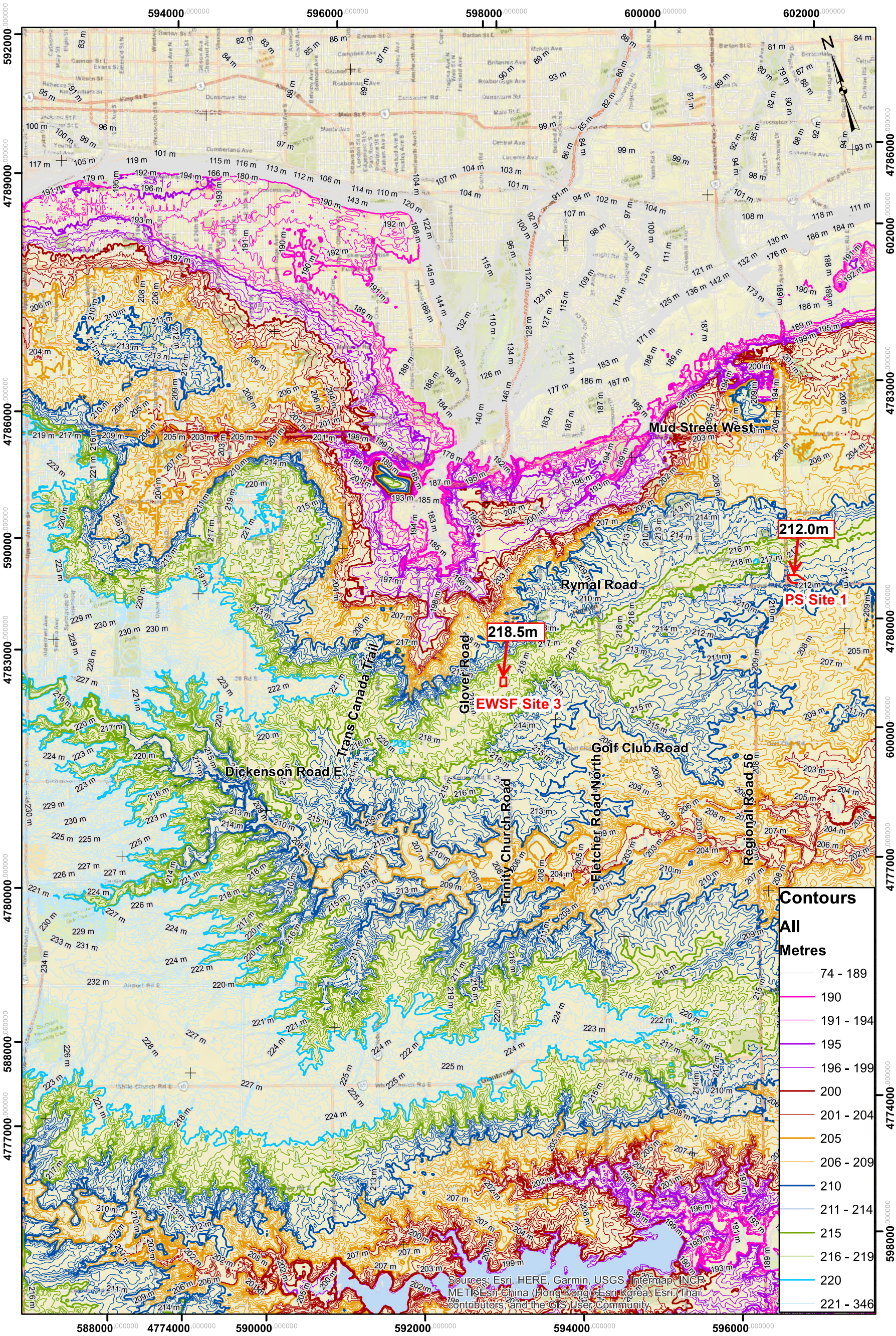
Buildings: Require architectural drawings in both plan view (with a north arrow indicator detailing the orientation of the building) and a profile (elevation) view (detailing maximum height of building including rooftop structures such as mechanical room, air conditioners, elevator shaft, etc. with the ground elevation at grade level). The North arrow indicator is particularly important to identify how the structure is oriented for azimuth calculations. *Note: should cranes be required during construction an additional land use submission will be required for assessment*.

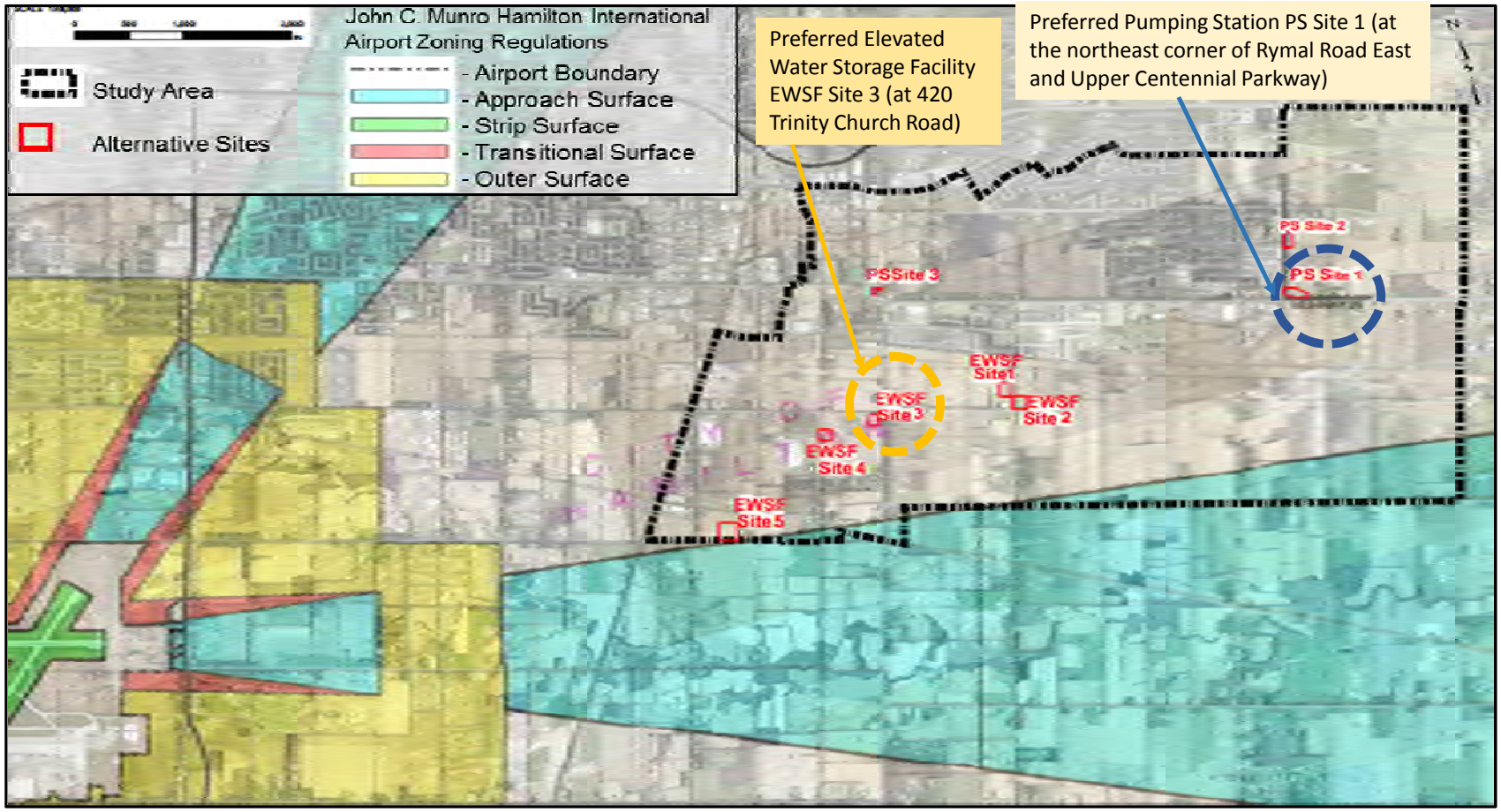
VHF Radio: Frequency and Transmitter Power

VHF consists of all frequencies between 30 MHz and 300 MHz. Such frequencies will potentially cause interference with NAV CANADA's communications equipment. Any frequencies originating from the proposed site which fall within this range must be mentioned here to rule out the possibility of interference.

For situations in which VHF radio will exist at a proposed site, NAV CANADA engineers must perform intermodulation studies to ensure that the performance of NAV CANADA communication sites is not compromised. These studies cannot be performed unless the proponent indicates the *specific* VHF frequencies being used onsite. Specify the transmitter power, as this is required to determine whether or not an overlap in coverage will take place.

Wind Farm: For clusters consisting of more than one turbine, the applicant can use one land use proposal submission form with a spreadsheet listing all turbines including turbine number, geographic coordinates (latitude/longitude) in NAD83, ground elevation and structure height. The *Multiple Obstacle Template* spreadsheet sample is provided on the *Proposal Submission Procedures* portion of the web site.


Mud Street West
212.0m
PS Site 1
218.5m
EWSF Site 3
Rymal Road
Glover Road
Trans Canada Trail
Dickenson Road E
Golf Club Road
North Service Road
Fletcher Road
Trinity Church Road
Regional Road 56
Contours
All
Metres
74 - 189
190
191 - 194
195
196 - 199
200
201 - 204
205
206 - 209
210
211 - 214
215
216 - 219
220
221 - 346
Sources: Esri, HERE, Garmin, USGS, Intermap, INCR
METI/Esri China (Hong Kong), Esri Korea, Esri (Thai
contributors, and the GIS User Community
Lake Ontario
Burlington
Hamilton
St. Cath
STUDY
AREA
© OpenStreetMap (and)
contributors, CC-BY-SA
SCALE 1:50,000
0 250 500 1,000 1,500 2,000 m
Map Datum: NAD 1983
PROJECT
Municipal Class EA and Conceptual Design of
Elevated Water Storage Facility and Pumping Station for PD7
TITLE
Location of Preferred Elevated Water
Storage Facility
COLE
DATE: March 2019
PROJECT: WM16-0435
GIS
DESIGN
CHECK
Attachment 1



Attachment 2 Preferred EWSF Site 3 & PS Site 1 and Airport Zoning Overlay

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navcanada.ca

Z-LDU-100 Version 18.6 3 October 2018

Obstacle Information for Assessment							Upon completion		
Obstacle ID	LAT dd mm ss.ss	LONG -ddd mm ss.ss	Ground Elevation (Feet)	Structure Height (Feet)	Total Height (Feet)	Crane Swing Radius (Feet)	Lighted Y/N	Painted Y/N	Construction Date
Example 1	60 39 16.59	-110 36 14.01	2162.5001	463.0001	2625.5002		Y	N	15-Jun-07
EWSF Site 1	79 48 34.51	43 10 20.26	708.4800	154.1600	862.6400	129.5600	y	y	01-May-20
EWSF Site 2	79 48 31.21	43 10 14.59	705.2000	154.1600	859.3600	129.5600	y	y	01-May-20
EWSF Site 3 (Preferred Site)	79 49 30.05	43 10 22.63	716.6800	154.1600	870.8400	129.5600	y	y	01-May-20
EWSF Site 4	79 49 51.71	43 10 21.89	716.6800	154.1600	870.8400	129.5600	y	y	01-May-20
EWSF Site 5	79 50 42.02	43 10 00.26	708.4800	154.1600	862.6400	129.5600	y	y	01-May-20
PS Site 1 (Preferred Site)	79 46 29.60	43 10 24.95	695.3600	36.0800	731.4400	-	y	N	01/May/2021 (to be confirmed)
PS Site 2	79 46 26.03	43 10 43.08	701.9200	36.0800	738.0000	-	y	N	01/May/2021 (to be confirmed)
PS Site 3	79 49 12.58	43 11 03.36	669.1200	36.0800	705.2000	-	y	B	01/May/2021 (to be confirmed)

From: Shelley Kuan
Sent: March-14-19 4:41 PM
To: 'Land Use' <LandUse@navcanada.ca>
Cc: 'asanneh@flyhamilton.ca' <asanneh@flyhamilton.ca>; 'Winston.Wang@hamilton.ca' <Winston.Wang@hamilton.ca>; Philip Gray <pgray@coleengineering.ca>; Rhona Scott <rscott@coleengineering.ca>
Subject: RE: 19-0895 - RE: Land Use Proposal Submission Form_Hamilton PD7 EWSF Site 3

Hi Diane,

Enclosed please find the attached updated form including the Attachments 1 & 2.
The form and Attachments 1 & 2 have been updated. Please replace the previous form and Attachments 1 & 2 with these updated files.

The data for other alternative sites (including EWSF Site 3 have been provided in attached spreadsheet.

Please feel free to contact us if you have any questions.

Thank you.

Shelley Kuan, P. Eng.
Hydraulic Technical Manager
Modelling Lead
Infrastructure Planning

Cole Engineering Group Ltd.
70 Valleywood Drive, Markham, ON L3R 4T5
T: 905-940-6161 Ext. 371 Tor. Line: 905-987-6161
F: 905-940-2064
E: skuan@ColeEngineering.ca
www.ColeEngineering.ca

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From: Land Use [mailto:LandUse@navcanada.ca]
Sent: March-13-19 5:10 PM
To: Shelley Kuan <SKuan@coleengineering.ca>
Cc: asanneh@flyhamilton.ca; Winston.Wang@hamilton.ca; Philip Gray <pgray@coleengineering.ca>; Rhona Scott <rscott@coleengineering.ca>
Subject: RE: 19-0895 - RE: Land Use Proposal Submission Form_Hamilton PD7 EWSF Site 3

Hello Shelley,

Please note the Land Use file number is 19-0895.

Here is the spreadsheet. It would be best to include all the data on the spreadsheet; we use it to import into our maps for the assessment.

You could indicate on the spreadsheet the preferred site.

Thank you.

Diane Levesque
Land Use / Utilisation de terrains
AERONAUTICAL INFORMATION MANAGEMENT (AIM) NAV CANADA
Personal: diane.levesque@navcanada.ca
Group: landuse@navcanada.ca
1601 avenue Tom Roberts Avenue Ottawa, ON K1V 1E5
T. 613-936-5135 / Toll-free 866- 577-0247 / F. 613-248-4094

From: Shelley Kuan <SKuan@coleengineering.ca>
Sent: Wednesday, March 13, 2019 4:35 PM
To: Land Use <LandUse@navcanada.ca>
Cc: asanneh@flyhamilton.ca; Winston.Wang@hamilton.ca; Philip Gray <pgray@coleengineering.ca>; Rhona Scott <rscott@coleengineering.ca>
Subject: 19-0895 - RE: Land Use Proposal Submission Form_Hamilton PD7 EWSF Site 3

Hi Diane,

Thanks for your information. Our proposal has been sent to Transport Canada for review.

Enclosed find the reduced-size attachment.

At shown in Attachment 2, the alternative sites for the Elevated Water Storage Facility (EWSF) are EWSF Sites 1,2,3,4 and 5- the preferred EWSF site is EWSF Site 3. The alternative sites for the pumping station, PS (say PS building height 11m) are PS Sites 1, 2 and 3 – the preferred PS site is PS Site 1.

Please send us the spreadsheet. Additional information for all alternative EWSF sites will be provided shortly. Do we also need to provide information for the PS in the spreadsheet?

Please feel free to contact us if you have any questions.

Thank you.

Shelley Kuan, P. Eng.
Hydraulic Technical Manager
Modelling Lead
Infrastructure Planning

Cole Engineering Group Ltd.
70 Valleywood Drive, Markham, ON L3R 4T5
T: 905-940-6161 Ext. 371 Tor. Line: 905-987-6161
F: 905-940-2064
E: skuan@ColeEngineering.ca
www.ColeEngineering.ca

From: Land Use [mailto:LandUse@navcanada.ca]
Sent: March-13-19 3:45 PM
To: Shelley Kuan <SKuan@coleengineering.ca>
Cc: asanneh@flyhamilton.ca; Winston.Wang@hamilton.ca; Philip Gray <pgray@coleengineering.ca>; Rhona Scott <rscott@coleengineering.ca>
Subject: RE: Land Use Proposal Submission Form_Hamilton PD7 EWSF Site 3
Importance: High

Hello Shelley,

Could you please re-send the attachments above but reduce the second attachment as we cannot attach anything greater than 9 MB to our files.

Even if I split this email, the second attachment would still be too large.

To evaluate all the sites (even though site 3 is the preferred site) please complete the spreadsheet attached. Please return it as another attachment in the .xlsx format.
You should send your proposal to Transport Canada also as they are responsible for airport zoning, lighting and marking.

Thank you.

Diane Levesque
Land Use / Utilisation de terrains
AERONAUTICAL INFORMATION MANAGEMENT (AIM) NAV CANADA
Personal: diane.levesque@navcanada.ca
Group: landuse@navcanada.ca
1601 avenue Tom Roberts Avenue Ottawa, ON K1V 1E5
T. 613-936-5135 / Toll-free 866- 577-0247 / F. 613-248-4094

From: Shelley Kuan <SKuan@coleengineering.ca>
Sent: Tuesday, March 12, 2019 6:39 PM
To: Land Use <LandUse@navcanada.ca>
Cc: asanneh@flyhamilton.ca; Winston.Wang@hamilton.ca; Philip Gray <pgray@coleengineering.ca>; Rhona Scott <rscott@coleengineering.ca>
Subject: Land Use Proposal Submission Form_Hamilton PD7 EWSF Site 3

Dear Sir/Madam,

On behalf of the City of Hamilton, Cole Engineering Group Ltd. (COLE) is currently undertaking a Schedule B Municipal Class Environmental Assessment (EA) for a new Elevated Water Storage Facility (EWSF/RES) and a Pumping Station (PS) in the City of Hamilton (Pressure District 7). At our Public Information Centre PIC#2 we presented the preferred site for the Elevated Water Storage Facility (EWSF) as Site 3. Please open the City's website for further details: www.hamilton.ca/PD7waterfacilities.

As suggested by Mr. Sanneh (Manager, Airport Planning and Regulatory Affairs) of John C. Munro Hamilton International Airport, we are submitting a Land Use Proposal Submission Form with supporting documentations for your review on the proposed (or preferred) EWSF Site 3. Attachment 1 shows the supporting map showing the topo and datum of the preferred EWSF Site 3.

For your information, Attachment 2 illustrates the location of the EWSF Site 3 overlaid on the Airport Zoning Regulations mapping provided to us by the City. Since EWSF Site 3 was selected as the preferred EWSF and the only site used for the Land Use Proposal Submission Form, the locations for other alternative sites (e.g., EWSF Sites 1, 2, 4 and 5) are provided as additional information only. In the event that any storage facility site, other than EWSF Site 3 becomes the preferred site, another Land Use Proposal Submission Form will be completed in the future.

As showed in Attachment 2, it appears that the EWSF Site 3 is located outside of the airport zoned areas. We would appreciate your comments or concerns that you or your staff may have, after reviewing the attached Land Use Proposal Submission Form with supporting documentations.

Please do not hesitate to contact us, if you have any questions or require additional information.
Thank you.

Shelley Kuan, P. Eng.
Hydraulic Technical Manager
Modelling Lead
Infrastructure Planning

Cole Engineering Group Ltd.
70 Valleywood Drive, Markham, ON L3R 4T5
T: 905-940-6161 Ext. 371 Tor. Line: 905-987-6161
F: 905-940-2064
E: skuan@ColeEngineering.ca
www.ColeEngineering.ca

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From: Ontario Region / Region d'Ontario (CEAA/ACEE) [mailto:CEAA.ontario.ACEE@ceaa-acee.gc.ca]
Sent: May 29, 2018 10:13 AM
To: Wang, Winston <Winston.Wang@hamilton.ca>
Subject: Email - City of Hamilton - Pumping Station - 2018-05-29

Dear Mr. Wang,

Please find attached letter regarding the above mentioned project.

Regards,
Caitlin

Caitlin Cafaro
A/ Administrative Officer, Ontario
Canadian Environmental Assessment Agency / Government of Canada
caitlin.cafaro@ceaa-acee.gc.ca/ Tel: 416-952-1576

Caitlin Cafaro
Adjointe administrative/ I, Ontario
Agence canadienne d'évaluation environnementale / Gouvernement du Canada
caitlin.cafaro@ceaa-acee.gc.ca / Tél. : 416-952-1576

Canadian Environmental Assessment Agency
Agence canadienne d'évaluation environnementale

Ontario Region
55 York Street, Suite 600
Toronto ON M5J 1R7

Région de l'Ontario
55, rue York, bureau 600
Toronto ON M5J 1R7

May 28, 2018

Sent by email

Winston Wang
City of Hamilton
77 James Street N., Suite 400
Hamilton, ON L8R 2K3
Winston.wang@hamilton.ca

Dear Mr. Wang:

Re: Information on the *Canadian Environmental Assessment Act, 2012*

Thank you for your correspondence of May 16, 2018 regarding the elevated water storage facility and pumping station for pressure district 7.

The *Canadian Environmental Assessment Act, 2012* (CEAA 2012) focuses federal environmental reviews on projects that have the potential to cause significant adverse environmental effects in areas of federal jurisdiction and applies to physical activities described in the *Regulations Designating Physical Activities* (the Regulations). Based on the information provided, your project does not appear to be described in the Regulations. **Kindly review the requirements of CEAA 2012, including the Regulations.** Given the ongoing review of the federal environmental assessment process, if your project does not proceed immediately, please review your project against any future federal legislation and pursuant regulations to confirm applicability to your project.

If you believe the project is not subject to a federal environmental assessment, and do not submit a project description, we kindly request that you remove the Canadian Environmental Assessment Agency from your distribution list.

If you have questions, please get in touch with our office through the switchboard at 416-952-1576. The attachment that follows provides web links to useful legislation, regulation, and guidance documents.

Sincerely,

Anjala Puvananathan
Director, Ontario Region

Attachment – Useful Legislation, Regulation, and Guidance Documents

Attachment – Useful Legislation, Regulation, and Guidance Documents

For more information on the *Canadian Environmental Assessment Act, 2012* (CEAA 2012), please access the following links on the Canadian Environmental Assessment Agency's (the Agency) website:

Overview of CEAA 2012
http://www.ceaa.gc.ca/default.asp?lang=En&n=16254939-1

Regulations Designating Physical Activities, and
Prescribed Information for a Description of a Designated Project Regulations
http://www.ceaa.gc.ca/default.asp?lang=En&n=9EC7CAD2-1

If your project is in a federally designated wildlife area or migratory bird sanctuary please check section 1 of the Regulations, which details the designated projects specific to those locations.

If it appears that CEAA 2012 may apply to your proposed project, you must provide the Agency with a description of the proposed project. Please see the link below to the Agency's guide to preparing a project description.

Guide to Preparing a Description of a Designated Project
http://www.ceaa.gc.ca/default.asp?lang=En&n=3CA9CEE5-1

For information on the ongoing review of the federal environmental assessment process
https://www.canada.ca/en/services/environment/conservation/assessments/environmental-reviews.html

Hamilton

City of Hamilton
City Hall, 71 Main Street West
Hamilton, Ontario,
Canada L8P 4Y5
www.hamilton.ca

Hamilton Water Division, Public Works Department
Physical Address: 77 James Street North, Suite 400, Hamilton, Ontario, L8R 2K3
Phone: 905-546-2424 ext. 4092 Fax: 905-546-4491
Email: Winston.Wang@hamilton.ca

May 16, 2018

Re: Public Information Centre (PIC) No. 2
Schedule 'B' Municipal Class Environmental Assessment Study
Elevated Water Storage Facility and Pumping Station for Pressure District (PD) 7

Dear Sir/Madam;

The City of Hamilton has initiated the Schedule 'B' Municipal Class Environmental Assessment (EA) Study for an Elevated Water Storage Facility (EWSF) and Pumping Station at Pressure District (PD) 7. The purpose of this Class EA is to determine the preferred site(s) for a new elevated water storage facility and pumping station to provide water supply for future growth within PD7, and to address security of supply and water system balancing.

We have enclosed for your information a copy of the Public Information Center (PIC) No. 2, as part of the Elfrida Growth Area Study, which will appear in The Hamilton Spectator on June 1, 2018 and in the Stoney Creek News and the Glanbrook Gazette on May 31 and June 7, 2018, respectively. If your agency/office has any comments or input regarding this project, we invite you to complete and return the attached Response Form by July 12, 2018.

For further information or if you wish to provide input regarding this project, please contact the undersigned at 905-546-2424 ext. 4092 or via email at winston.wang@hamilton.ca .

Yours truly,

Winston Wang, M. A. Sc., P. Eng.
Project Manager

Enclosures: Public Information Centre 2
Response Form

LET'S TALK!

ELFRIDA

COMMUNITY MEETING

TUESDAY JUNE 12 2018

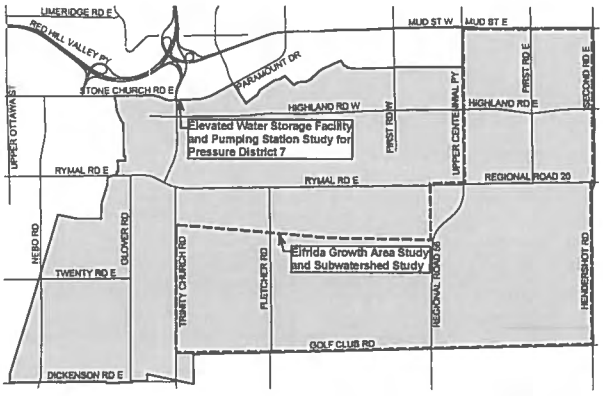
6:00 - 8:30 PM

Presentation at 6:30 pm

VALLEY PARK RECREATION CENTRE AND ARENA (GYMNASIUM)

970 Paramount Drive

Stoney Creek, Hamilton



ELFRIDA GROWTH AREA STUDY

The City of Hamilton is growing and the population is projected to increase to 680,000 by 2031. While the City has made efforts to grow within its current urban boundary, an urban boundary expansion is required to accommodate future population growth. In reviewing opportunities for where future growth could occur, the Elfrida area was identified as the preferred location.

HELP SHAPE THE NEW COMMUNITY FOR ELFRIDA

Gather your friends and neighbours and join us to share your ideas as we plan for a new community in the Elfrida Area. At this meeting staff will discuss the evaluation process for the three development scenarios that were presented at the last meeting, and the preferred community structure ideas which will be carried forward to a future recommended plan. We need you to let us know what you think of the evaluation and if there are other things we need to consider.

The meeting will include a presentation about the evaluation process and preferred community structure ideas followed by small group discussions about the different preferred elements. Input is important and will be used to complete the evaluation and confirm the community structure ideas that should be carried forward to shape a recommended plan.

FOR MORE INFORMATION CONTACT

Melanie Pham, *MCIP, RPP*
Planner
905-546-2424 Ext. 6685
Melanie.Pham@hamilton.ca

www.hamilton.ca/elfrida

ELFRIDA SUBWATERSHED STUDY

NOTICE OF PUBLIC INFORMATION CENTRE 2

The Subwatershed study is intended to present an approach to manage, protect, and enhance the natural environment. This includes stormwater management (quality and quantity), as well as terrestrial and aquatic resources within the Elfrida study area limits. Major issues and opportunities have been identified which provide the basis to guide future growth in an environmentally sound manner. The Phase 1 findings have been updated since the June 2017 study commencement/public consultation and will be available at the community meeting. This Study follows the planning and design process defined in the Municipal Engineers Association's Municipal Class Environmental Assessment document (October 2000, as amended in 2007, 2011 & 2015).

FOR MORE INFORMATION CONTACT

Melanie Anderton
Project Manager
905-546-2424 Ext. 6412
iplanning@hamilton.ca

www.hamilton.ca/elfridaSWS

ELEVATED WATER STORAGE FACILITY AND PUMPING STATION STUDY FOR PRESSURE DISTRICT 7

NOTICE OF PUBLIC INFORMATION CENTRE 2

This study commenced in 2017 and the first Public Information Centre was held on December 6, 2017. At this second meeting, the City will have information available on the Municipal Class Environmental Assessment (Class EA) study initiated to identify the preferred site for a new water storage facility and pumping station. This study also follows the requirements for a Schedule "B" project as described in the Municipal Engineers Association's Municipal Class EA document (October 2000, as amended in 2007, 2011 & 2015). Study details, including background information, alternative siting options, evaluation results, recommended sites, and proposed mitigation measures will be available at the community meeting. All interested individuals are encouraged to attend. Written comments are also invited for further consideration.

FOR MORE INFORMATION CONTACT

Winston Wang
Project Manager
905-546-2424 Ext. 4092
Winston.Wang@hamilton.ca

www.hamilton.ca/PD7waterfacilities

If you have any accessibility requirements to participate in this event please call 905-546-2424 Ext. 4498 or email elfrida@hamilton.ca

Hamilton

Advance requests are encouraged to enable us to meet your needs adequately.

Hamilton

RESPONSE FORM
City of Hamilton
Municipal Class Environmental Assessment Study
For Elevated Water Storage Facility And
Pumping Station for Pressure District (PD) 7

1. Contact Name: _____

2. Ministry/Agency/Office: _____

3. Address: _____

_____ Postal Code: _____

Phone No.: _____

Email: _____

4. Please note specific comments and/or concerns (please attach additional sheets if necessary):

_____

_____

_____

_____

_____

5. Do you wish to be notified for continued involvement in the project process, up to and including project implementation? Yes _____ No _____

Signature _____ Date _____

Please return this form to:

Winston Wang, P. Eng.
Project Manager
City of Hamilton
77 James Street North, Suite 400
Hamilton, ON L8R 2K3

Phone: 905-546-2424 ext. 4092
Fax: 905-546-4491
Email: Winston.Wang@hamilton.ca

Thank you for your participation in this study.

From: Wang, Winston [mailto:Winston.Wang@hamilton.ca]
Sent: May-28-18 8:04 AM
To: Shelley Kuan <SKuan@coleengineering.ca>
Subject: FW: Public Information Centre (PIC) No. 2 Schedule 'B' Class EA Study Elevated Water Storage Facility and Pumping Station for Pressure District (PD) - EA

FYI……to be included in the EA Project File.

Winston Wang, M. A. Sc., P. Eng.
Project Manager, Water & Wastewater Planning
Water and Wasteater Systems Planning Section
Hamilton Water, Public Works Department, City of Hamilton
77 James Street North, Suite 400, Hamilton, ON L8R 2K3
Tel: 905-546-2424 Ext. 4092 Fax: 905-546-4491 Email: winston.wang@hamilton.ca

From: Jenny.SEO@HydroOne.com [mailto:Jenny.SEO@HydroOne.com]
Sent: May 25, 2018 11:13 AM
To: iplanning <iplanning@hamilton.ca>; Pham, Melanie <Melanie.Pham@hamilton.ca>; Wang, Winston <Winston.Wang@hamilton.ca>
Cc: WesternFBCPlanning@HydroOne.com; SecondaryLandUse@HydroOne.com
Subject: Public Information Centre (PIC) No. 2 Schedule 'B' Municipal Class Environmental Assessment Study Elevated Water Storage Facility and Pumping Station for Pressure District (PD) - EA - Not Impact
Dear Melanie Pham, Malanie Anderton and Winston Wang,
In our initial review, we can confirm that there are no Hydro One Transmission (above 115 kV) Facilities in the subject area. Please note there may also be Hydro One Distribution facilities in your study area (ie. Distribution wires operating below 115 kV). In order to cover off the impact to all Hydro One assets, please also forward your EA to the following email address:

DX ZONE Western : WesternFBCPlanning@hydroone.com

Please be advised that this is only a preliminary assessment based on current information. No further consultation with Hydro One Networks Inc. is required if no changes are made to the current information.

If you have any further questions or concerns, please feel free to contact me.

Regards,
Jenny SEO
Network Management Officer, Secondary Land Use
Hydro One Networks Inc.
483 Bay St. | North Tower | 13th Floor
Toronto, ON | M5G 2P5
Tel: 416.345.5676
Email: Jenny.Seo@Hydroone.com
www.HydroOne.com
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LET'S TALK!

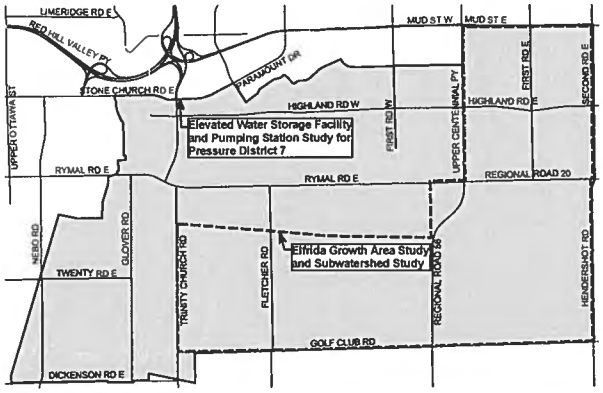
ELFRIDA

COMMUNITY MEETING

TUESDAY **JUNE 12** 2018

6:00 - 8:30 PM
Presentation at 6:30 pm

VALLEY PARK RECREATION CENTRE AND ARENA (GYMNASIUM)
970 Paramount Drive
Stoney Creek, Hamilton



ELFRIDA GROWTH AREA STUDY

The City of Hamilton is growing and the population is projected to increase to 680,000 by 2031. While the City has made efforts to grow within its current urban boundary, an urban boundary expansion is required to accommodate future population growth. In reviewing opportunities for where future growth could occur, the Elfrida area was identified as the preferred location.

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FOR MORE INFORMATION CONTACT

Melanie Pham, *MCIP, RPP*
Planner
905-546-2424 Ext. 6685
Melanie.Pham@hamilton.ca

www.hamilton.ca/elfrida

ELFRIDA SUBWATERSHED STUDY

NOTICE OF PUBLIC INFORMATION CENTRE 2

The Subwatershed study is intended to present an approach to manage, protect, and enhance the natural environment. This includes stormwater management (quality and quantity), as well as terrestrial and aquatic resources within the Elfrida study area limits. Major issues and opportunities have been identified which provide the basis to guide future growth in an environmentally sound manner. The Phase 1 findings have been updated since the June 2017 study commencement/public consultation and will be available at the community meeting. This Study follows the planning and design process defined in the Municipal Engineers Association's Municipal Class Environmental Assessment document (October 2000, as amended in 2007, 2011 & 2015).

FOR MORE INFORMATION CONTACT

Melanie Anderton
Project Manager
905-546-2424 Ext. 6412
iplanning@hamilton.ca

www.hamilton.ca/elfridaSWS

ELEVATED WATER STORAGE FACILITY AND PUMPING STATION STUDY FOR PRESSURE DISTRICT 7

NOTICE OF PUBLIC INFORMATION CENTRE 2

This study commenced in 2017 and the first Public Information Centre was held on December 6, 2017. At this second meeting, the City will have information available on the Municipal Class Environmental Assessment (Class EA) study initiated to identify the preferred site for a new water storage facility and pumping station. This study also follows the requirements for a Schedule "B" project as described in the Municipal Engineers Association's Municipal Class EA document (October 2000, as amended in 2007, 2011 & 2015). Study details, including background information, alternative siting options, evaluation results, recommended sites, and proposed mitigation measures will be available at the community meeting. All interested individuals are encouraged to attend. Written comments are also invited for further consideration.

FOR MORE INFORMATION CONTACT

Winston Wang
Project Manager
905-546-2424 Ext. 4092
Winston.Wang@hamilton.ca

www.hamilton.ca/PD7waterfacilities

If you have any accessibility requirements to participate in this event please call 905-546-2424 Ext. 4498 or email elfrida@hamilton.ca

Hamilton

Advance requests are encouraged to enable us to meet your needs adequately.

Hamilton

City of Hamilton
City Hall, 71 Main Street West
Hamilton, Ontario,
Canada L8P 4Y5
www.hamilton.ca

Hamilton Water Division, Public Works Department
Physical Address: 77 James Street North, Suite 400, Hamilton, Ontario, L8R 2K3
Phone: 905-546-2424 ext. 4092 Fax: 905-546-4491
Email: Winston.Wang@hamilton.ca

May 16, 2018

Re: Public Information Centre (PIC) No. 2
Schedule 'B' Municipal Class Environmental Assessment Study
Elevated Water Storage Facility and Pumping Station for Pressure District (PD) 7

Dear Sir/Madam;

The City of Hamilton has initiated the Schedule 'B' Municipal Class Environmental Assessment (EA) Study for an Elevated Water Storage Facility (EWSF) and Pumping Station at Pressure District (PD) 7. The purpose of this Class EA is to determine the preferred site(s) for a new elevated water storage facility and pumping station to provide water supply for future growth within PD7, and to address security of supply and water system balancing.

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For further information or if you wish to provide input regarding this project, please contact the undersigned at 905-546-2424 ext. 4092 or via email at winston.wang@hamilton.ca .

Yours truly,

Winston Wang, M. A. Sc., P. Eng.
Project Manager

Enclosures: Public Information Centre 2
Response Form

Hamilton

RESPONSE FORM
City of Hamilton
Municipal Class Environmental Assessment Study
For Elevated Water Storage Facility And
Pumping Station for Pressure District (PD) 7

1. Contact Name: _____

2. Ministry/Agency/Office: _____

3. Address: _____

_____ Postal Code: _____

Phone No.: _____

Email: _____

4. Please note specific comments and/or concerns (please attach additional sheets if necessary):

_____

_____

_____

_____

_____

5. Do you wish to be notified for continued involvement in the project process, up to and including project implementation? Yes _____ No _____

Signature _____ Date _____

Please return this form to:

Winston Wang, P. Eng.
Project Manager
City of Hamilton
77 James Street North, Suite 400
Hamilton, ON L8R 2K3

Phone: 905-546-2424 ext. 4092
Fax: 905-546-4491
Email: Winston.Wang@hamilton.ca

Thank you for your participation in this study.

From: Wang, Winston [mailto:Winston.Wang@hamilton.ca]
Sent: June-19-18 8:34 AM
To: Isabel Vautour-Larabee
Cc: 'Shelley Kuan'
Subject: [External] RE: Elevated Water Storage Facilty and Pumping Station for Pressure District (PD) 7

Thank you Isabel for your information, which is great for helping future implementation phase!

Regards,

Winston Wang, M. A. Sc., P. Eng.
Project Manager, Water & Wastewater Planning
Water and Wastewater Systems Planning Section
Hamilton Water, Public Works Department, City of Hamilton
77 James Street North, Suite 400, Hamilton, ON L8R 2K3
Tel: 905-546-2424 Ext. 4092 Fax: 905-546-4491 Email: winston.wang@hamilton.ca

From: Isabel Vautour-Larabee [mailto:ilarabee@uniongas.com]
Sent: June 19, 2018 8:28 AM
To: Wang, Winston <Winston.Wang@hamilton.ca>
Subject: RE: Elevated Water Storage Facilty and Pumping Station for Pressure District (PD) 7

Winston,

In response to your Public Information Centre (PIC) No.2, Schedule 'B; Municipal Class Environmental Assessment Study, I am sending screen shots out of Union Gas's GIS system to make you aware of gas pipe in the areas of your study.

Should you require additional information as this work moves along, please don't hesitate to contact me.

NOTE: The attached information may be used for planning purposes only, detailed information on depts., etc. will need to be obtained via Ontario one call. Dig safe guidelines as laid out in Ontario Regulation 210/01 – Oil and Gas Pipeline Systems – made under the Technical Standards and Safety Act, 2000 are required when working around Union Gas natural gas plant

Isabel Vautour Larabee
Construction Project Manager, C&G Hamilton District

Union Gas Limited | An Enbridge Company
TEL: 289-649-2030 ext 5212064 | CELL: 289-775-3066 | ilarabee@uniongas.com
918 South Service Road, Stoney Creek ON L8E 5M4

uniongas.com | Canada's Top 100 Employer | Facebook | Twitter | LinkedIn | YouTube

This email communication and any files transmitted with it may contain confidential and or proprietary information and is provided for the use of the intended recipient only. Any review, retransmission or dissemination of this information by anyone other than the intended recipient is prohibited. If you receive this email in error, please contact the sender and delete this communication and any copies immediately. Thank you.

Hamilton

RESPONSE FORM
City of Hamilton
Municipal Class Environmental Assessment Study
For Elevated Water Storage Facility And
Pumping Station for Pressure District (PD) 7

1. Contact Name: Isabel Vautour Larabee

2. Ministry/Agency/Office: Union Gas Limited

3. Address: 918 South Service Road, Stoney Creek Postal Code: L8E 5M4

Phone No.: (289) 775-3066

Email: _____

4. Please note specific comments and/or concerns (please attach additional sheets if necessary):

Only notify should you be concerned there may be a conflict with natural gas pipe.

5. Do you wish to be notified for continued involvement in the project process, up to and including project implementation? Yes X No _____

Signature Isabel Vautour Larabee Date June 19, 2018

Please return this form to:

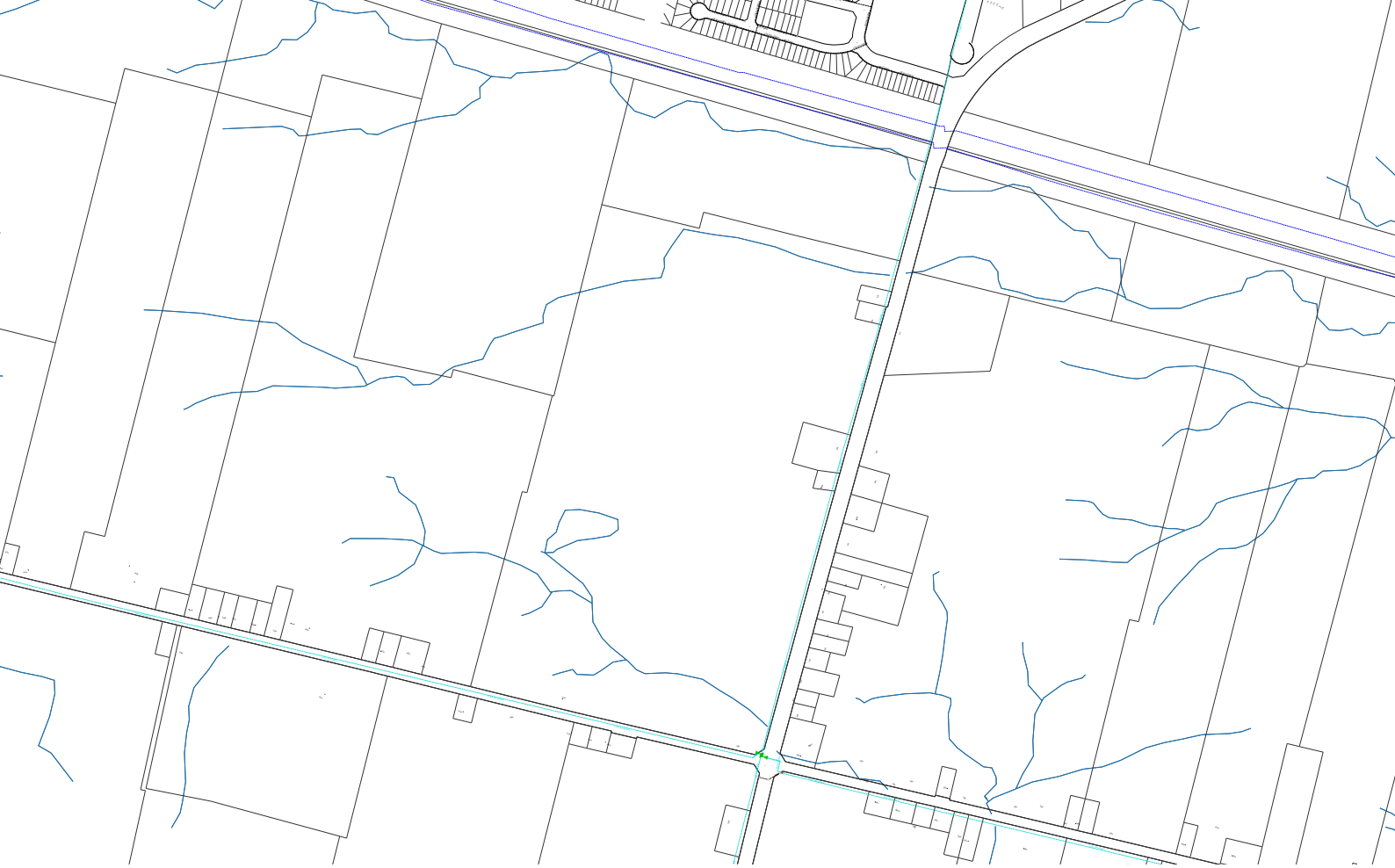
Winston Wang, P. Eng.
Project Manager
City of Hamilton
77 James Street North, Suite 400
Hamilton, ON L8R 2K3

Phone: 905-546-2424 ext. 4092
Fax: 905-546-4491
Email: Winston.Wang@hamilton.ca

Thank you for your participation in this study.

HIGHLAND RD W
SPRINGGARDEN CRES
SUMMERFIELD AVE
SPRINGFIELD CRES
FIRST RD W
LECKIE AVE
BYRON AVE
AUBREY AVE
HIGHBURY DR
PROMENADE DR
PINEWOODS DR
UPPER CENTENNIAL PKY (HIGHWAY 20)
HIGHLAND RD E
HILLCREST DR
HILLCREST CRES
SLINGER AVE
SLINGER CRES
FOXTROT DR
HOLYOAKE DR
FOXMEADOW DR
HIGHGATE DR
BANKFIELD CRES
WHITESIDE RD
FEATHERWOOD CRES
CANDLEWOOD DR
SPRINGWOOD DR
RYMAL RD
RYMAL RD E (REGIONAL RD 53)
CENTRE RD
ELGIN MAIN STREET

BELLAGIO AVE
RYMAL RD
RYMAL RD E (REGIONAL RD 53)
TERRYBERRY RD
C ST
D ST
E ST
H ST
DALGLEISH TRAIL
BETHUNE AVE
CITTADELLA BLVD
DOLOMITI CRT
PIAZZETTA AVE
ROCKLEDGE DR
AQUARIUS CRES
AQUA LANE
CANARY GRASS BLVD
LAGUNA VILLAGE CRES
WATERLILY WAY
SWAYZE RD
PORTSIDE ST
HIGHWAY 56



Appendix I.2 Correspondence to Individuals for Property Access

From: Shelley Kuan
Sent: January-14-19 2:25 PM
To: [redacted]
Cc: 'Wang, Winston' <Winston.Wang@hamilton.ca>; Rhona Scott <rscott@coleengineering.ca>
Subject: Hamilton PD7 EA Field Observations during Site Visit

Dear [redacted]

Thanks for your permission to enter your properties.

COLE Staff entered part of your properties on [redacted] to perform the breeding bird investigations on June 18, June 26 and July 4, 2018, and a botanical survey on July 11, 2018. As requested, our observations were as follows:

- Most of the properties consists of farmland;
- Barn Swallows were observed flying over both properties [redacted] during our site visit; and,
- A drainage feature runs through [redacted].

Please feel free to contact us if you have any questions.

Thank you.

Shelley Kuan, P. Eng.
Hydraulic Technical Manager
Modelling Lead
Infrastructure Planning

Cole Engineering Group Ltd.
70 Valleywood Drive, Markham, ON L3R 4T5
T: 905-940-6161 Ext. 371 Tor. Line: 905-987-6161
F: 905-940-2064
E: skuan@ColeEngineering.ca
www.ColeEngineering.ca

CONFIDENTIALITY NOTE
This transmission is intended only for the use of the individual(s) or the entity to which it is addressed. It may contain Confidential / Privileged information belonging to the sender which is protected by personal and copyright privilege. If you are not the intended recipient, you are hereby notified that any disclosure, copying, distribution or taking of any action in reliance on the contents of this information is prohibited. If you have received this transmission in error, please immediately notify us by telephone or e-mail. Thank you

Ontario
Infrastructure Ontario

OILC/HONI
Provincial Secondary Land Use Program
Notice of Entry Permit

Entry Form Submitted by: COLE engineering group Ltd.

Location of Entry: 561 Walkers Road (the "Lands")

Entry Date: BETWEEN MAY 28 & JULY 31, 2018 Completion Date: BY JULY 31, 2018

Description of Project (Nature of Work to be completed on Lands): VISUAL INSPECTION OF PLANTS AND WILDLIFE ON THE PROPERTY

Proximity to Towers:

Specialized Equipment to be used: NONE

Work to be completed by
Company: COLE engineering group Ltd.
Supervisor: Chris Parent
Field Contact #: (416) 271-6255

Voltage: **230 kV** O.H.S.A. Limit of Approach: **Vertical 230kV 4.5m**

- Use of some equipment may require the placement of signs warning of the hazard due to the overhead electrical conductors
- This permit is not a guarantee of underground service location

Hazards Identified: Potential presence of ticks

The undersigned hereby agrees and acknowledges that all persons, agents, delegates, representatives, contractors, employees or others under the direction of the undersigned who enter onto the Lands at any time shall be at the sole risk of the undersigned, and Hydro One Networks Inc. and/or Her Majesty the Queen in right of Ontario, as represented by the Minister of Infrastructure and/or Ontario Infrastructure and Lands Corporation will not be liable for any loss, damage or injury (including loss of life) to them or it however occurring.

The undersigned agrees to assume all liability and obligation for any and all loss, damage, or injury (including death) to persons or property that would not have happened but for this Entry Permit or anything done or maintained by the undersigned thereunder or intended so to be and the undersigned shall at all times indemnify and save harmless Hydro One Networks Inc. and/or Her Majesty the Queen in right of Ontario, as represented by the Minister of Infrastructure and/or Ontario Infrastructure and Lands Corporation and their respective successors, administrators, permitted assigns, directors, officers, employees, agents and all others Hydro One Networks Inc. and/or Her Majesty the Queen in right of Ontario, as represented by the Minister of Infrastructure and/or Ontario Infrastructure and Lands Corporation are responsible for in law from and against all such loss, damage, or injury and all actions, suits, proceedings, costs, charges, damages, expenses, claims, or demands arising therefrom or

Ontario
Infrastructure Ontario

connected therewith. The undersigned expressly recognizes and acknowledges that Hydro One Networks Inc. maintains a high voltage line on the Lands, and the undersigned willingly assumes any and all risks associated with the undersigned's proposed activities in such close proximity to this line.

Upon the expiration of this Permit, the undersigned agrees to restore the Lands to the condition at the time this Permit was granted.

The undersigned hereby acknowledges and represents that the undersigned has read and understands the foregoing Permit and agrees to be bound by the terms and conditions contained herein. The receipt and sufficiency of the consideration exchanged for this Permit is hereby acknowledged.

DATED this 14 day of MAY , 2018

(NAME OF APPLICANT)

Per: Chris Parent
Print Name: CHRIS PARENT
Print Title: SENIOR BIOLOGIST & PROJECT MANAGER

I have authority to bind the Corporation.

IF THE APPLICANT IS AN INDIVIDUAL – USE THE FOLLOWING

SIGNED, SEALED AND DELIVERED in the presence of

AGNETA SZABO
Print Name:

A Szabo

Hamilton

Public Works Department
Hamilton Water Division
Infrastructure Planning & Systems Design
77 James St N, Suite 400, Hamilton, ON L8R 2K3
Phone: 905.546.2424, ext. 4092 Fax: 905.546.4491
Email: winston.wang@hamilton.ca

April 24, 2018

[redacted]

Re: Elevated Water Storage Facility and Pumping Station Municipal Class Environmental Assessment Study for Pressure District 7
REQUEST FOR PERMISSION TO ENTER

The City of Hamilton has initiated a Municipal Class Environmental Assessment (EA) study to select the preferred sites for a new elevated water storage facility and pumping station to address security of supply, water system balancing, and to provide water supply for future growth within the southeast mountain area (Pressure District 7). As shown on the attached map, alternative sites within the study area were identified and presented at a Public Information Centre held in December 2017. The alternative sites are now being comparatively evaluated to determine the recommended sites for this important new infrastructure. Further information is available on the City's project website at: https://www.hamilton.ca/city-planning/master-plans-class-eas/.

Request for Permission to Enter

As part of the natural environmental field investigations to be completed starting in late May 2018, the City of Hamilton, through their consultant, Cole Engineering Group Limited (COLE), is requesting permission to enter your property at [redacted].

As part of the Class EA study, the purpose of the site visit will be to characterize existing natural heritage features and functions (e.g., potential for significant wildlife habitat, species at risk, etc.) within approximately 150 m of each of the alternative sites. The site visit will be limited to non-intrusive visual survey of plant species and incidental observation of wildlife and potential wildlife habitat. It is currently anticipated that the site visit will occur sometime between late May and late July 2018.

If you wish to deny access to your property, a best approximation of natural heritage features will be made through visual survey from adjacent lands.

Next Steps

Please sign the acknowledgement below and send a copy to myself at the address provided on this letter. Alternatively, please feel free to send your response via e-mail at winston.wang@hamilton.ca or contact me at 905-546-2424, extension 4092 to discuss the matter further.

A second Public Information Centre (PIC) is tentatively scheduled for June 12, 2018 to present study details, including background information, alternative siting options and results of the evaluation, the recommended sites, and proposed mitigation measures. You will receive notification of the PIC via similar letter. You are encouraged to attend the PIC or visit our website for further information. In the

meantime, please do not hesitate to contact me if you have any questions. We thank you for your cooperation in this important project.

Yours sincerely,

Winston Wang, M. A. Sc., P. Eng.
Project Manager

c.: Shelley Kuan, Project Manager, COLE
Chris Parent, Senior Ecologist, COLE

I, [redacted], the owner of
(insert name)

[redacted],
(insert address)

give permission for the City of Hamilton's consultants to access my property for the purpose of non-intrusive visual survey, during working hours between late May 28, 2018 and July 31, 2018. * SEE NOTES BELOW

Signature: [redacted] Date: April 27, 2018

* THE ABOVEMENTIONED PERMISSION IS SUBJECT TO THE FOLLOWING CONDITIONS AS DISCUSSED WITH WINSTON WANG APRIL 27, 2018.

1) WE NEED 48 HOURS ADVANCE WRITTEN NOTICE OF ENTRY IN ORDER TO NOTIFY THE TENANT FARMER

2) THE CITY SHOULD ARRANGE TO HAVE ANY FINDINGS/REPORTS RELATED TO OUR LANDS RELEASED TO US, ONCE THEY HAVE RECEIVED THEM

3) THE CITY SHALL INDEMNIFY AND HOLD HARMLESS [redacted] FROM AND DAMAGES OR LIABILITY RESULTING FROM ENTRY ONTO THE LANDS BY ITS EMPLOYEES, CONTRACTORS, CONSULTANTS OR AGENTS IN CONNECTION WITH THIS PERMISSION TO ENTER

I, [redacted], the owner of
(insert name)

[redacted],
(insert address)

give permission for the City of Hamilton's consultants to access my property for the purpose of non-intrusive visual survey, during working hours between late May 28, 2018 and July 31, 2018.

Signature: [redacted] Date: 3/5/18