

**APPENDIX D:
NOTICE OF STUDY COMMENCEMENT**



C.C. Tatham & Associates Ltd.
Consulting Engineers

Collingwood Bracebridge Orillia Barrie



THE CORPORATION OF THE
TOWNSHIP OF RAMARA
Proud History - Progressive Future

NOTICE OF STUDY COMMENCEMENT
TOWNSHIP OF RAMARA
BAYSHORE VILLAGE EFFLUENT SPRAY IRRIGATION EXPANSION
CLASS ENVIRONMENTAL ASSESSMENT- SCHEDULE B

The Township of Ramara is undertaking a Class Environmental Assessment study (Class EA) to consider the expansion of the effluent spray irrigation system serving the Bayshore Village Sewage Works. Currently, treated effluent from the sewage lagoons is spray irrigated on two fields near Concession Road 8 and Sideroad 20. The addition of spare spray irrigation capacity is being considered for operational flexibility and so that fields can be taken out of service for aerating and/or tilling as needed to maintain their performance.

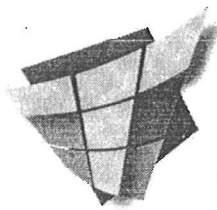
The study is being carried out in accordance with the planning and design process for a 'Schedule B' project as outlined in the Municipal Engineers Association *Municipal Class Environmental Assessment* document (October 2000, amended September 2007). During the Class EA process, alternative solutions will be identified, potential impacts will be assessed, and mitigating measures will be defined. A Public Information Centre (PIC) will be held in the fall to obtain public and agency input. Further details on the PIC will be provided closer to the date. Upon completion of the study, an environmental project file will be made available for public and agency review and comment.

If you have any questions, initial comments or input regarding the study, or wish to be added to the study mailing list, please submit them to the Project Manager at the address below.

C. C. Tatham & Associates Ltd.

Suzanne Troxler, M.Sc., P.Eng.
Manager – Environmental Engineering
115 Sandford Fleming Drive, Suite 200
Collingwood, Ontario, L9Y 5A6
Phone: (705) 444-2565 ext. 285
Email: stroxler@cctatham.com





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October 13, 2010

via Mail
CCTA File 100080-2

COPY

Ms. Cindy Hood
District Manager
Ministry of the Environment
Barrie District Office
54 Cedar Point Drive, Unit 1203
Barrie, ON L4N 5R7

**Re: Township of Ramara
Bayshore Village Effluent Spray Irrigation Expansion
Class Environmental Assessment
Notice of Study Commencement**

Dear Ms. Hood:

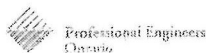
The Township of Ramara is undertaking a Class Environmental Assessment study (Class EA) to consider the expansion of the effluent spray irrigation system serving the Bayshore Village Sewage Works. A copy of the Notice of Study Commencement is attached.

The study is being carried out in accordance with the planning and design process for a 'Schedule B' project as outlined in the Municipal Engineers Association *Municipal Class Environmental Assessment* document (October 2000, amended September 2007). During the Class EA process, alternative solutions will be identified, potential impacts will be assessed, and mitigating measures will be defined.

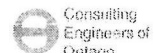
Public and agency consultation is a key component of the study. A Public Information Centre (PIC) will be held later in the fall of 2010 to present and obtain input on the alternatives, the impact assessment, and the preliminary preferred solution. Further details with respect to the PIC will be provided closer to the date. Upon completion of the study, an environmental project file documenting the Class EA process and preferred solution will be prepared for public/agency review and comment.

At this time, we are interested in receiving any initial comments or concerns you may have regarding this project. We are also interested in learning of any relevant information that you feel would be of benefit to the study and its completion. Your prompt response to this letter will assist us in identifying key issues in a timely manner.

If you have any questions, initial comments or input regarding the study, or wish to be added to the study mailing list, please do not hesitate to contact me.



Authorized by the Association of Professional Engineers of Ontario to offer Professional engineering services



Yours truly,
C.C. Tatham & Associates Ltd.

STroxler

Suzanne Troxler, B.Eng., M.Sc., P.Eng.
Manager – Environmental Engineering
KES/ST:em

encl.

copy: Richard Bates and David Stephen, Township of Ramara
\\wpdocs\100000\Spray Irrigation EA\Notice of Commencement\Notice of Study Commencement Cover Letter.doc



C.C. Tatham & Associates Ltd.
Consulting Engineers
Collingwood Brantford Guelph Barrie



THE CORPORATION OF THE
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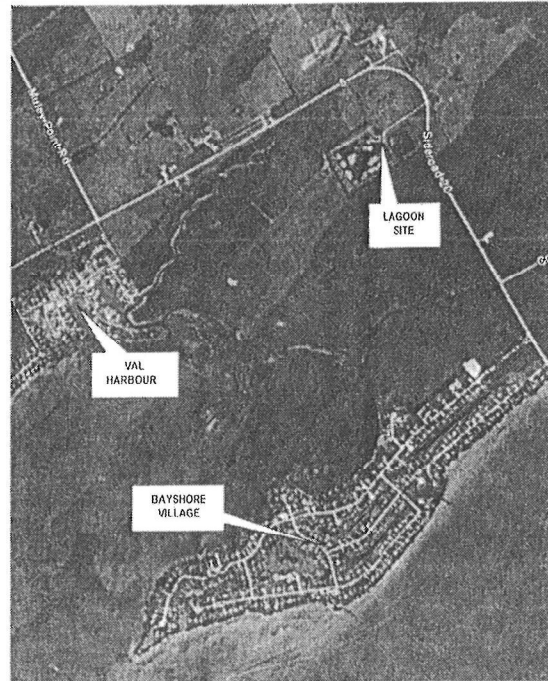
**NOTICE OF STUDY COMMENCEMENT
TOWNSHIP OF RAMARA
BAYSHORE VILLAGE EFFLUENT SPRAY IRRIGATION EXPANSION
CLASS ENVIRONMENTAL ASSESSMENT- SCHEDULE B**

The Township of Ramara is undertaking a Class Environmental Assessment study (Class EA) to consider the expansion of the effluent spray irrigation system serving the Bayshore Village Sewage Works. Currently, treated effluent from the sewage lagoons is spray irrigated on two fields near Concession Road 8 and Sideroad 20. The addition of spare spray irrigation capacity is being considered for operational flexibility and so that fields can be taken out of service for aerating and/or tilling as needed to maintain their performance.

The study is being carried out in accordance with the planning and design process for a 'Schedule B' project as outlined in the Municipal Engineers Association *Municipal Class Environmental Assessment* document (October 2000, amended September 2007). During the Class EA process, alternative solutions will be identified, potential impacts will be assessed, and mitigating measures will be defined. A Public Information Centre (PIC) will be held in the fall to obtain public and agency input. Further details on the PIC will be provided closer to the date. Upon completion of the study, an environmental project file will be made available for public and agency review and comment.

If you have any questions, initial comments or input regarding the study, or wish to be added to the study mailing list, please submit them to the Project Manager at the address below.

C. C. Tatham & Associates Ltd.
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Box 6700
Barrie, ON L4M 5N5

Department of Indian and Northern Affairs
Environmental Assessment Coordination
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Toronto, ON M4T 1M2



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RECEIVED OCT 26 2010
to file 100080

October 18th, 2010

Suzanne Troxler, B. Eng., M.Sc., P.Eng.
Manager – Environmental Engineering
C.C. Tatham and Associate Ltd.
50 Andrew Street South, Suite 100
Orillia, Ontario
L3V 7T5

**RE: Township of Ramara
Bayshore Village Effluent Spray Irrigation Expansion
Class Environmental Assessment
Notice of Study Commencement**

Dear Ms. Troxler:

Thank you for your letter of October 13, 2010. We do not have any concerns or comments at this time but we would like to remain on your contact list in order to follow this project through the Class Environmental Assessment process.

Regards,

Rick Newlove

Rick Newlove, P.Eng.,
General Manager of Corporate Services
County of Simcoe

From: Suzanne Troxler
To: Rob Baldwin
CC: Mike Walters
Date: 10/20/2010 10:00 AM
Subject: Re: Bayshore Village Effluent Expansion (100080)

Hi Rob,

The Class EA is looking at means of increasing the Township's effluent spray irrigation capacity so that they will have spare capacity for more operational flexibility. The sewage treatment facility's capacity is unchanged.

There are few opportunities for water reuse that we can think of in the area of Bayshore Village, other than the application of effluent for irrigation of hay fields. If you have suggestions in this regard, we will consider them.

Suzanne

Suzanne Troxler, M.Sc., P.Eng.
C.C.Tatham & Associates Ltd.
Ph: 705-444-2565
Fax: 705-444-2327
stroxler@cctatham.com

>>> Rob Baldwin <R.Baldwin@lsrca.on.ca> 10/19/2010 3:10 PM >>>

Hi Suzanne,

I have a copy of your notice of study commencement for the Bayshore Village sewage treatment.

Couple of quick questions.

1. From what I gather the EA is only seeking additional irrigation capacity. The facility itself is not expanding its capacity at this time ?
2. Is water re-use being considered as one of the potential options for the treated effluent?

Thanks,

Rob Baldwin
Director, Planning and Development Services
Lake Simcoe Region Conservation Authority
120 Bayview Parkway, Box 282
Newmarket, ON L3Y 4X1
Tel: 905-895-1281
Fax: 905-853-5881
r.baldwin@lsrca.on.ca

From: Suzanne Troxler
To: Keith Shular
CC: Collingwood File
Date: 10/22/2010 1:32 PM
Subject: Bayshore Village Spray irrigation Class EA

Keith, and for the file,

I received a phone call today from Doug Colling, of the Bayshore Village Resident Association (484-0606). He reminded me that the majority of Bayshore Village residents leave for the winter. They typically leave mid-November/early December and return in March/April. He expects the residents will want to participate in the public consultation and therefore the project PIC should not be held between Mid-November and April.

I thanked him for his phone call and said I would discuss with Rick Bates.

Suzanne

From: Suzanne Troxler
To: Keith Shular
CC: Collingwood File; Emily Meadley
Date: 10/22/2010 1:47 PM
Subject: Bayshore Village Spray irrigation Class EA 100080

Keith and for the file

I returned a call from Linda Olsen, President of the North Mara Beach Residents Association (705-484-5251).

Ms Olsen wanted us to know that they have been monitoring the water quality in the creeks discharging to lake Simcoe for many years and this data may be of interest to us. She will mail me the data they have on Wainman's Creek.

She asked about the performance of the system and how did we know if the effluent was not leaching out of the lagoons. I answered briefly that we monitored performance and surface water and groundwater quality, and all was good, and that we checked volumes in and out of the lagoons. I also indicated that she could request the annual performance reports at the Township.

Emily, please add the North Mara Beach Residents Association to the mailing list, Linda Olsen, President, 3628 Amelia Drive, RR#3, Brechin, L0K 1B0.

Suzanne

>>> Keith Shular 10/29/2010 9:20 AM >>>

Good morning Bob,

Can you please confirm that the hydro poles run along 8, Sideroad 20, and to the spray irrigation pumphouse, as I've shown in red on the attached sketch?

Keith

Keith Shular, B.Sc., B.E.Sc., P. Eng.
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>>> <bob.toffan@HydroOne.com> 10/27/2010 1:14 PM >>>

Dear Suzanne, In reference to File # CCTA File 100080-2, the only issue I have is the fact the Hydro One 3 phase line runs through the spray irrigation field property. Will the effluent prematurely break down the pole strength faster than normal. Would this be a good time to consider moving the line to existing road allowance? The existing 3 phase service for the irrigation service could be fed via a private primary tap.

Bob Toffan

SDET Orillia Ops

Phone-office 705-325-0744 ext 229

Cell-705-330-2773

Fax 705-325-0565

E mail Bob.Toffan@HydroOne.com

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of the
Environment

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Technical Support
Central Region

appui technique
Région du Centre



Tel: (416) 326-6700
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Via Email Only

December 06, 2010

File: EA 05-03-05

Suzanne Troxler, M. Sc., P.Eng.
Manager of Environmental Engineering
115 Sandford Fleming Drive, Suite 200
Collingwood, Ontario L9Y 5A6

**RE: Bayshore Village Effluent Spray Irrigation Expansion
Township of Ramara
Class Environmental Assessment
Notice of Study Commencement**

The Ministry of the Environment (Ministry) has received your Notice of Study Commencement for the above noted Environmental Assessment (EA) undertaking. This response acknowledges that the study is following the approved environmental planning process for a Schedule B project under the *Municipal Engineers Association Municipal Class Environmental Assessment* (Class EA).

Based on the information submitted, the general comments are provided to assist you and your project team members in effectively addressing the following issues:

- o Ecosystem Protection and Restoration
- o Surface Water and Groundwater
- o Dust and Noise
- o Servicing and Facilities
- o Waste Materials and Spills
- o Mitigation and Monitoring
- o Planning and Policy
- o Class EA Process
- o Aboriginal Peoples Consultation

Ecosystem Protection and Restoration

Any impacts to ecosystem form and function must be avoided where possible. The Project File report should describe any proposed mitigation measures and how project planning will protect and enhance the local ecosystem.

All natural heritage features should be identified and described in detail to assess potential impacts and to develop appropriate mitigation measures. The Ministry's records confirm that the following sensitive environmental features are located within or adjacent to the study area:

- Areas of Natural and Scientific Interest (ANSIs)
- Watercourses
- Lake Simcoe
- Wetlands
- Woodlots

The Project File must include a sufficient level of information to demonstrate that there will be no negative impacts on these environmental features. The Ministry also recommends consulting with the Ministry of Natural Resources (MNR), Fisheries and Oceans Canada (DFO) and your local conservation authority to determine if special measures or additional study will be necessary to preserve and protect these sensitive features.

The County of Simcoe and the Township of Ramara Official Plan policies related to ecosystem protection within the study area should be referenced to ensure that all environmental protection policies are satisfied.

Surface Water and Groundwater

The *Lake Simcoe Protection Act* applies to the Lake Simcoe Basin, which encompasses Lake Simcoe and the lands from which surface water drains into Lake Simcoe. The Lake Simcoe Protection Plan (LSPP) contains policies to protect, improve and restore the elements that contribute to the ecological health of the Lake Simcoe Watershed. Since the Study Area is partially within or adjacent to the Lake Simcoe Watershed, applicable policies should be referenced in the Project File for this proposed project. The Project File should describe how the proposed project and its mitigation measures are consistent with the requirements of the LSPP if applicable.

The Project File must include a sufficient level of information to demonstrate that there will be no negative impacts on the natural features or ecological functions of any watercourses within the study area. Measures should be included in the planning and design process to ensure that any impacts to watercourses from construction or operational activities (e.g. spills, erosion, and pollution) are mitigated as part of the proposed undertaking. The Ministry's Guideline B-6, *Evaluating Construction Activities Impacting on Water Resources* should be used to plan and construct this project.

The status of, and potential impacts to, any well water supplies should be addressed. If the project involves groundwater takings or changes to drainage patterns, the quantity and quality of groundwater may be affected due to drawdown effects or the redirection of existing contamination flows. In addition, project activities may infringe on existing wells such that they must be reconstructed or sealed and abandoned. Appropriate information to define existing groundwater conditions should be included in the Project File.

If the potential construction or decommissioning of water wells is identified as an issue, the Project File should refer to Ontario Regulation 903, Wells, under the *Ontario Water Resources Act*.

The Ministry recommends preparing a Contingency Plan for dealing with potential adverse effects on surface water (e.g. spills) and groundwater (e.g. well impacts), and including a description of this plan in the Project File.

Potential impacts to groundwater-dependent natural features should be addressed. Any changes to groundwater flow or quality from groundwater taking may interfere with the ecological processes of streams, wetlands or other surficial features. In addition, discharging contaminated or high volumes of groundwater to these features may have direct impacts on their function. Any potential effects should be identified, and appropriate mitigation measures should be recommended. The level of detail required will be dependent on the significance of the potential impacts.

Any potential approval requirements for groundwater taking or discharge should be identified in the Project File. In particular, a Permit to Take Water (PTTW) under the *Ontario Water Resources Act* will be required for any water takings that exceed 50,000 litres per day. A PTTW application must be accompanied by an assessment of potential effects as noted above, and may require a higher level of detail than what is provided in the Project File. Please note that when significant long-term water taking is proposed, the maximum rate identified in the Project File must not be exceeded in any subsequent PTTW applications. For more information on the application and approval process, it is recommended that you refer to the Ministry's *Permit to Take Water Manual* (April 2005).

Dust and Noise

Dust and noise control measures should be addressed and included in the construction plans to ensure that nearby residential and other sensitive land uses within the study area are not adversely affected during construction activities. If dust suppressants are proposed to be used, The Ministry recommends the use of non-chloride based compounds to protect water quality.

Servicing and Facilities

Any facility that releases emissions to the atmosphere, discharges contaminants to ground or surface water, provides potable water supplies, or stores, transports or disposes of waste must have a Certificate of Approval before it can operate lawfully. Please consult with the Environmental Assessment and Approvals Branch to determine whether a new or amended Certificate of Approval will be required for any proposed infrastructure.

It is recommended that you refer to the Ministry's "D-Series" guidelines – *Land Use Compatibility* to ensure that all applicable Ministry procedures are followed in planning for any infrastructure or facilities related to wastewater, pipelines, landfills or industrial uses.

Reference to the following Ministry's documents is recommended in the Project File to ensure that all applicable Ministry procedures are followed in planning for this water and sewer infrastructure:

- o Guideline D-5, *Planning for Sewage and Water Services*;
- o Guideline F-5-3, *Derivation of Sewage Treatment Works Effluent Requirements for the Incorporation of Effluent Requirements into Certificates of Approval for New or Expanded Sewage Treatment Works*;
- o Guideline B-1-5, *Deriving Receiving- Water Based, Point-Source Effluent Requirements for Ontario Waters* (July 1994); and
- o *Guide for Applying for Approval of Municipal and Private Water and Sewage Works* (Sections 52 and 53 Ontario Water Resources Act R.S.O. 1990).

Waste Materials and Spills

All waste generated during construction must be disposed of in accordance with the Ministry's requirements.

Since the removal or movement of soils may be required, appropriate tests to determine contaminant levels from previous land uses or dumping should be undertaken. If the soils are contaminated, you must determine how and where they are to be disposed of, consistent with Part XV.1 of the *Environmental Protection Act* (EPA) and Ontario Regulation 153/04, *Records of Site Condition*, which details the new requirements related to site assessment and clean up. The Ministry recommends contacting the Ministry's Barrie District Office for further consultation if contaminated sites are present.

Any current or historical waste disposal sites should be identified in the Project File. The status of these sites should be determined to confirm whether approval pursuant to Section 46 of the *Environmental Protection Act* may be required for land uses on former disposal sites.

The Project File should identify any underground transmission lines in the study area. The owners should be consulted to avoid impacts to this infrastructure, including potential spills.

The location of any underground storage tanks should be included in the Project File. Measures should be identified to ensure the integrity of these tanks and to ensure an appropriate response in the event of a spill. The Ministry Spills Action Centre in the Barrie District must be contacted in such an event.

Mitigation and Monitoring

Design and construction reports and plans should be based on a best management approach that centres on the prevention of impacts, protection of the existing

environment, and opportunities for rehabilitation and enhancement of any impacted areas.

Contractors must be made aware of all environmental considerations so that all environmental standards and commitments for both construction and operation are met. Mitigation measures should be clearly referenced in the Project File and regularly monitored during the construction stage of the project. In addition, The Ministry encourages you to conduct post-construction monitoring to ensure all mitigation measures have been effective and are functioning properly. The construction and post-construction monitoring plans should be documented in the Project File.

Planning and Policy

The 2005 *Provincial Policy Statement* contains policies that protect Ontario's Natural Heritage. Applicable policies should be referenced in the Project File, and you should demonstrate how this proposed project is consistent with these policies.

The *Places to Grow Plan* contains policies which guide decisions on a range of issues such as infrastructure planning and land-use planning to ensure that stronger and more prosperous communities are built in the Greater Golden Horseshoe. The Project File should demonstrate how this project adheres to the relevant policies of the *Places to Grow Plan*, including Section 3, which contain policies for Infrastructure to Support Growth.

Class EA Process

The Project File should provide clear and complete documentation of the planning process in order to allow traceability of decision-making. It must also demonstrate how the consultation provisions of the Class EA have been fulfilled, including documentation of all public consultation efforts undertaken during the planning process. Additionally, it should identify all concerns that were raised and how they have been addressed throughout the planning process. You should include copies of any comments submitted on the project by interested stakeholders, and your responses to these comments.

The Class EA requires the consideration of the effects of each alternative on all aspects of the environment. The Project File should include a level of detail (e.g. hydrogeological investigations, terrestrial and aquatic assessments) such that all potential impacts can be identified and appropriate mitigation measures can be developed. Any supporting studies conducted during the Class EA process should be referenced and included as part of the Project File.

Please include in the Project File a list of all subsequent permits or other approvals that may be required for the implementation of the preferred alternative, including Permits to Take Water, Certificates of Approval or other ministerial approvals, approval under the

Canadian Environmental Assessment Act (CEAA), and conservation authority permits.

Please note that the Ministry's guidelines and other information related to the issues noted above are available at www.ene.gov.on.ca under the publications link. The Ministry encourages you to review all the available guides and to reference any relevant information in the Project File.

Aboriginal Peoples Consultation

Please note that as part of the required stakeholder and agency consultation, you are advised to contact the Ministry of Aboriginal Affairs and the Department of Indian and Northern Affairs to determine potentially affected Aboriginal Peoples in the project area. Please refer to the website <http://www.ene.gov.on.ca/en/eaab/aboriginal-resources.php> for a list of appropriate government contacts.

Once identified, you are advised to provide notification directly to the Aboriginal Peoples who may be affected by the project and provide them with an opportunity to participate in any planned public consultation sessions and comment on the project.

Thank you for the opportunity to comment on this project. Please ensure that the Ministry's Central Region, **EA and Planning Coordinator**, is placed on the project mailing list and forward us the Notice of Completion and the Project File for our review and comment when completed.

Should you or any members of your project team have any questions regarding the above, please feel free to contact me at (416) 326-4886 or via an email: Chunmei.Liu@ontario.ca. Myself or any of Central Region's EA and Planning Coordinators would be pleased to assist you.

Yours truly,



Chunmei Liu
Environmental Assessment and Planning Coordinator
Air, Pesticides and Environmental Planning

- c. C. Hood, Manager, Barrie District Office, MOE
Central Region EA File
A & P File