

JLR No.: 31457-000 March 19, 2024

Revision: 0

Stakeholder Consultation Summary – ESR (Appendix D)

Plantagenet Wastewater Municipal Class Environmental Assessment





Table of Contents

Overview	1
Notice of Study Commencement	
Public Information Centres	
	Stakeholder Comments

List of Appendices

Appendix D1	Public Consultation Plan
• •	
Appendix D2	Stakeholder Mailing List(s)
Appendix D3	Notice of Study Commencement
Appendix D4	Record of Stakeholder Correspondences
Appendix D5	Project Committee Meeting Minutes
Appendix D6	Public Information Centre No. 1 – Notice, Presentation and Attendance Sheet
Appendix D7	Public Information Centre No. 2 – Notice, Presentation and Attendance Sheet
Appendix D8	Study Notice of Completion

1.0 Overview

The Township of Alfred and Plantagenet (Township) initiated a Class Environmental Assessment (Class EA) in December 2021 to evaluate alternatives to expand and/or upgrade the wastewater system in Plantagenet, Ontario, to effectively service the existing population as well as anticipated future developments. For this Class EA, the Plantagenet wastewater system consists of the collection system, pumping stations, forcemains, treatment lagoon and effluent piping. The Class EA is proceeding in accordance with the requirements of the Ontario Municipal Class EA, October 2000, as amended in 2023.

Stakeholder consultation is a key element of the Class EA process. During project initiation, a public consultation plan was developed to ensure that the public and other stakeholders would have numerous opportunities to be involved in the process and to provide comments throughout. The Stakeholder Consultation Plan is provided in Appendix D1.

A project mailing list was developed for the Class EA identifying review agency and indigenous community stakeholders, as well members of the public interested in receiving project updates (refer to Appendix D2 for project mailing list). The mailing list was be updated at various stages throughout the Class EA process. Appendix D2 includes the November 2023 mailing list, used to distribute the notice of Public Information Centre (PIC) No. 2 and Study Notice of Completion.

2.0 Notice of Study Commencement

During Phase 1, a Notice of Study Commencement (refer to Appendix D3) was prepared. The Notice was issued in both French and English and included a link to the project website and contact information of the main project contacts. The Notice of Study Commencement was issued to agencies via email on December 2, 2021, and to Indigenous Communities via email and mail on December 23, 2021. The Notice was also published in the Township's newspaper on December 2, 2021 and December 9, 2021 and posted on the Township's website on November 29, 2021 (link to website: Notice of Study Commencement - Plantagenet Wastewater System - Township of Alfred and Plantagenet (alfred-plantagenet.com).

3.0 Stakeholder Comments

Summaries of comments received during the Class EA from members of the public, agencies and Indigenous Communities are summarized in Table 1, Table 2 and Table 3, respectively. A record of correspondences is provided in Appendix D4.

Table 1: Summary of Comments from Members of the Public.

Stakeholder	Summary of Comment	Summary of Action	
N/A	N/A	N/A	

Table 2: Summary of Comments from Agencies.

Stakeholder	Summary of Comment	Summary of Action
Ministry of the Environment, Conservation and Parks (MECP)	2021-12-02 – J. Orpana notified proponent that he will be the MECP contact for this project, as the Regional Environmental Planner. He requested that a Project Information Form be populated by the proponent.	Form was completed and sent back.
Ministry of the Environment, Conservation and Parks 2021-12-02 – J. Orpana notified proponent that he will be the MECP contact for this project, as the Regional Environmental Planner. He requested that a Project Information Form be		Submitted response letter to the MECP acknowledging comments and documents provided, and providing information on how each identified item from the "Areas of Interest" document would be dealt with as part of the Class EA.

Stakeholder	Summary of Comment	Summary of Action
	2022-06-07 – S. Baxter provided an email response to minutes prepared for the assimilative capacity study consultation meeting completed on May 5, 2022, requesting an electronic copy of the 1998 Class EA and noting that the MECP did not have any objections to the study approach presented during the meeting.	The 1998 Class EA was provided to the MECP in electronic format.
	2022-06-10 – S. Baxter provided an email response specifying the allowable total phosphorous loading from the system and asked why the lagoon had never been expanded.	Submitted an email response indicating that a previous expansion had not been completed due to lack of funding and low development pressures.
	2023-06-09 – S. Baxter provided an email with questions on the Assimilative Capacity Assessment.	Submitted response letter to the MECP.
	 2023-07-26 – J. Orpana provided an email with the MECP's review of the final Assimilative Capacity Assessment, Phase 1 Report and Proponent Response Letter to previous comments. The following information was provided: Review of proposed effluent flows and dilution ratios, including a request for additional details for the October effluent flow. Review of proposed CBOD₅ effluent criteria (no objections). Review of proposed TSS effluent criteria, including a recommended decrease in the criteria. Review of proposed TP effluent criteria, including recommended decrease in the design objective. Review of proposed TAN effluent criteria, including a request to re-calculate the objectives and limits based on more conservative temperature and pH values. Review of proposed E. Coli effluent criteria (no objections). Review of proposed pH effluent criteria (no objections). 	An email response was provided to the MECP on October 24, 2023, responding to the MECP's comments. The following is a summary of the responses: • Request for clarification on the MECP's request for additional details for the October effluent flow. • Request to use originally proposed TSS effluent criteria with reasoning for decision. • Request to use originally proposed TP design objective. • Request for information on the integration of the TPM program with the ECA. • Revised assessment for the TAN effluent criteria based on a revised assessment completed for a separate but similar project. • Request to remove the E. Coli effluent criteria with reasoning for decision.

Stakeholder	Summary of Comment	Summary of Action
Statistical	 2023-11-20 – S. Baxter provided a response to comments submitted by the proponent on October 24, 2023. The following information was provided: Review of October effluent flow response and request to undertake additional work (modelling) to confirm proposed flow rate does not interfere with other river beneficial uses. Review of TSS effluent criteria response and request for "fully mixed" downstream distance. Review of TP objective response and response that TP objective be 50% of the limit. Response regarding integration of the TPM with the ECA. Review of proposed TAN effluent criteria (no objections to limits), and response that monthly TAN objectives be 50% of the limit. Review of proposed removal of E. Coli criteria (no objections). 	An email response was provided to the MECP on November 23, 2023, responding to the MECP's latest comments. The following is a summary of the responses: • Notification to the MECP that additional modelling will be completed to confirm the October effluent flow and downstream "fully mixed" distance. • Request for a TP objective that is 75% of the TP limit, with reasoning. • Request for monthly TAN objectives that are 80% of the TAN limits, with reasoning. Subsequently, a memorandum was submitted to the MECP on November 30, 2023, describing additional CORMIX modelling work undertaken and mixing zone characteristics and lengths (per first bullet above).
	 2023-12-20 – S. Baxter provided a response to comments submitted on November 23, 2023, and to the subsequent memorandum submitted on November 30, 2023. The following information was provided: Request for additional information relating to the CORMIX modelling undertaken by the proponent, including modelled parameters and mixing zones. 	An email response was provided requesting a meeting with the MECP to discuss the MECP's concerns. Refer to Section 4.0 for more information on the subsequent meeting held with the MECP.
	2023-02-29 – S. Baxter followed-up on the discussion held during the meeting and noted that, based on the discussion and further review of the draft ACS and supporting documents, "I have no further objections to the proposed effluent objectives and limits".	N/A

Stakeholder	Summary of Comment	Summary of Action
Ministry of Natural Resources and Forestry (MNRF)	2022-12-02 – S. Lee notified proponent that the request has been moved to Karen Handford (Karen.Handford@ontario.ca), who has replaced him at the Operations Supervisor for Kemptville.	Project mailing list was updated accordingly.
	 2023-05-11 – C. Warren provided a letter with information sources to use to consider certain project aspects relevant to the MNRF. The letter was provided in response to the Notice of PIC No. 1 and generally included: Natural Heritage information sources Natural hazards information sources Fish and Wildlife Conservation Act Public Land Act & Lakes and Rivers Improvement Act 	Submitted response letter to the MNRF acknowledging comments and information sources provided, and providing information on how each item would be considered as part of the Class EA.
South Nation Conservation Authority (SNC)	2021-12-06 – Notified proponent that Sandra Mancini (SMancini@nation.on.ca) will be the contact from SNC for this study, and that the SNC wishes to receive all future correspondences.	Project mailing list was updated accordingly.
	2023-05-11 – C. Lemay requested that additional information be provided to assist the SNC in preparing detailed comments.	The Phase 1 report was provided to SNC following PIC No. 1.
	 2023-05-25 – C. Lemay provided a letter with preliminary comments from the SNC, which generally included: Permitting requirements relating to work in and around watercourses and floodplains Policy 2 status of South Nation River for total phosphorous (TP), and SNC's TP management program Consultation requirement during detailed design 	Submitted response letter to SNC acknowledging comments and providing information on how each identified item would be dealt with as part of the Class EA.

Stakeholder	Summary of Comment	Summary of Action
Ministry of Citizenship and Multiculturalism (MCM)	2021-12-31 – K. Barboza provided a letter with preliminary comments in response to the Notice of Study Commencement, which included:	Submitted response letter to the MTCS acknowledging comments, and providing information on how each identified item would be dealt with as part of the Class EA.
	 Instructions on screening for archaeological potential and on determining requirement for archaeological assessment; Direction to undertake a cultural heritage assessment to describe existing baseline cultural heritage conditions, identify preliminary potential project-specific impacts and recommend measures to avoid or mitigate potential negative impacts; Recommendations on how to proceed with the cultural heritage assessment; and Instructions on reporting of cultural heritage and archaeological studies. 	
	2023-04-12 – K. Barboza provided a response by email to the proponent's response letter, requesting the project information form (PIF) number for the Stage 1 archaeological assessment and requesting access to the Phase 1 report.	Submitted Phase 1 Report and PIF number.
	2023-05-08 – K. Barboza provided an email response confirming that the Stage 1 Archaeological Report was submitted to the MCM for review.	N/A
United Counties of Prescott and Russel (UCPR)	2023-04-28 – J-F. Mainville provided an email response to the Notice of PIC No. 1, indicating that the notice was forwarded to his manager.	N/A

Table 3: Summary of Comments from Indigenous Communities.

Stakeholder	Summary of Comment	Summary of Action	
N/A	N/A	N/A	

4.0 Project Committee and Other Stakeholder Meetings

To facilitate the consultation process, the Project Management Team, including JLR members and Township staff, have met and/or called at regular intervals during Phase 1 and Phase 2 of the Class EA. The Project Management Team, together with Blue Sky Energy Engineering & Consulting Inc., who undertook assimilative capacity work for this Class EA, also undertook an initial consultation with the MECP at the onset of the project to develop the scope of the assimilative capacity assessment study, as well as a consultation in the final stages of the Class EA to obtain MECP approval of the proposed effluent criteria.

A summary of key meetings is provided in Table 4. Minutes from each formal meeting held to date are provided in Appendix D5.

Meeting / Date	Topic of Meeting
Project Initiation Meeting	Meeting to establish the groundwork for the initial
November 3, 2021	stages of the Class EA.
MECP Consultation Meeting – Assimilative	Meeting to discuss Blue Sky's proposed approach to
Capacity Study (Proposed Approach)	the assimilative capacity assessment and discuss key
May 5, 2022	items for the development of the effluent criteria.
Phase I Report Review Meeting	Meeting to review draft Phase 1 Report and discuss
April 18, 2023	project next steps.
Phase II Report Review Meeting	Meeting to review draft Phase 2 Report and discuss
July 28, 2023	project next steps.
MECP Consultation Meeting – Assimilative	Meeting to discuss MECP concerns on the CORMIX
Capacity Study (CORMIX Modelling and	modelling completed by Blue Sky, as well as obtain
Effluent Criteria)	approval from the MECP on the proposed effluent
February 20, 2024	criteria.

Table 4: Summary of Project Committee and Stakeholder Meetings

5.0 Public Information Centres

PIC No. 1 was held on May 10, 2023, from 6pm to 8pm at the Plantagenet Community Centre, located at 220 Main Street in Plantagenet, Ontario. PIC No. 1 notices were issued in both French and English and included a link to the project website and contact information of the main project contacts. The Notice of PIC No. 1 was issued to agencies and Indigenous Communities via email on April 28, 2023. The Notice was also published in the Township's newspaper on April 27, 2023, and May 4, 2023, and posted on the Township's Facebook account on May 9. Three (3) members of the public and one agency contact attended the PIC. The PIC notices, presentation slides, template comment sheet and attendance sheet are provided in Appendix D6.

PIC No. 2 was held on November 6, 2023, from 6pm to 8pm at the Township Hall, located at 205 Old Highway 17 in Plantagenet, Ontario. PIC No. 2 notices were issued in both French and English and included a link to the project website and contact information of the main project contacts. The Notice of PIC No. 2 was issued to agencies and Indigenous Communities via email

on October 20, 2023. The Notice was also published in the Township's newspaper on October 26, 2023, and posted on the Township's Facebook account on October 26, 2023. Eight (8) members of the public attended the PIC. The PIC notices, presentation slides, template comment sheet and attendance sheet are provided in Appendix D7.

6.0 Study Notice of Completion

In accordance with MCEA guidelines, a Notice of Completion was prepared by the consulting team following preparation of the ESR. The Notice was sent to all project stakeholders, including all members of the public who attended PIC No. 1 and PIC No. 2. The Notice identified the preferred design concept and the locations to review the ESR (online version on the Township Website and hard copy at the Township Hall). The Notice also provided information on the 30-day review period, 30-day waiting period and 'Section 16 Orders'. Refer to Appendix D8 for the study Notice of Completion in both French and English.

Environmental Study Report Plantagenet Wastewater Municipal Class Environmental Assessment

Appendix D1

Public Consultation Plan



November 2021

Prepared for:

TOWNSHIP OF ALFRED-PLANTAGENET

205 Old Highway 17, P.O Box 350 Plantagenet, Ontario K0B 1L0

J.L. RICHARDS & ASSOCIATES LIMITED 864 Lady Ellen Place, Ottawa, ON K1Z 5M2

JLR No.: 31457-000



Table of Contents

1.0	Intro	ductionduction	1
2.0	Key (Considerations	1
3.0	Cons	sultation Objectives	2
4.0	Proie	ect Team	2
5.0	Targ	et Groups for Consultation	2
6.0			
7.0			
8.0	Consultation Objectives		
	8.1	Public Information Centers	4
	8.2	Class EA Notices	5
	8.3	Website	5
	8.4	Opportunities to Comment	5
	8.5	Timing of Public Consultation	5
9.0	Evalu	uation Mechanisms	
10.0	Cond	clusions	6

Introduction 1.0

The Township of Alfred-Plantagenet (Township) is undertaking a Class Environmental Assessment (Class EA) to evaluate alternatives to expand and/or upgrade the wastewater system in Plantagenet, Ontario to effectively service the existing population as well as anticipated future developments. For this Class EA, the Plantagenet wastewater system consists of the collection system, pumping stations, forcemains, treatment lagoon and effluent piping.

The Class EA is proceeding in accordance with the requirements of the Ontario Municipal Class EA, October 2000, as amended in 2015. Note that the Municipal Engineers Association (MEA) proposed additional amendments to the Class EA process in 2020. However, these amendments have not yet been approved by the Ministry of the Environment, Conservation and Parks (MECP).

Public consultation is a key element of the Class EA process. As a result, this stakeholder consultation plan has been developed to ensure that the public and other stakeholders have numerous opportunities to be involved in the process and to provide comments throughout.

2.0 **Key Considerations**

Several considerations emerged that are likely to impact the implementation of the stakeholder consultation plan. They represent both opportunities and constraints for engagement and influence how this stakeholder consultation plan is structured. These considerations include the following:

- Due to historical issues meeting the total suspended solids (TSS) and five-day carbonaceous biological oxygen demand (CBOD₅) discharge objectives and/or effluent limits stipulated in the Amended Certificate of Approval (C of A), as well as the anticipated future requirement associated with total ammonia nitrogen (TAN), it will be important to engage the MECP, the South Nation Conservation Authority (SNCA) and other interested agencies early in the project.
- There are several adjacent privately-owned lands and residential properties neighbouring the existing treatment lagoon and sewage pumping stations (SPSs). In addition to public consultation, this consultation program will seek to meaningfully engage residents living adjacent to areas of potential work.
- There will be a requirement to inform the Township and the Ontario Clean Water Agency (OCWA) at key milestones to obtain approval prior to advancing to next phases.
- Due to the ongoing COVID-19 pandemic and the potential for in-person restrictions, public information centres (PIC) may need to be conducted virtually. At this time, all PICs are anticipated to be in-person.

J.L. Richards & Associates Limited November 2021 JLR No.: 31457-000 -1-

3.0 Consultation Objectives

The objectives for the Class EA consultation process are the following:

- Improve understanding and involvement through effective communications and consultation among residents and regulatory agencies.
- Ensure that feedback provided by the public and other stakeholders is reviewed and understood by the consulting team.
- Allow the public and other stakeholders to easily obtain information about the Class EA process using the Township website and provide project contact numbers for information.
- Encourage participation at PICs and other consultation activities so that the consulting team understands location concerns and issues.

4.0 Project Team

The project team for this Class EA will involve the following parties:

- Township of Alfred-Plantagenet (Township): Proponent Owner of wastewater system
- Ontario Clean Water Agency (OCWA): Operator of wastewater system.
- J.L. Richards & Associates Limited (JLR): Prime Consultant Project Manager and Class EA lead.
- Blue Sky Energy Engineering and Consulting Inc. (Blue Sky): Sub-Consultant Assimilative Capacity Study.
- Archaeological Research Associates Ltd. (ARA): Sub-Consultant Stage 1 Archaeological Assessment.
- Bowfin Environmental Consulting Ltd. (Bowfin): Sub-Consultant Natural Environment Assessment.
- Thurber Engineering Ltd. (Thurber): Sub-Consultant Hydrogeological Assessment, Geotechnical Study and Long-Term Groundwater Monitoring.
- Civica Infrastructure Inc. (Civica): Sub-Consultant Flow Monitoring (Inflow and Infiltration).

5.0 Target Groups for Consultation

To satisfy the objectives of this stakeholder consultation plan, target groups were identified. The following list encompasses the audiences considered critical for the success of the stakeholder consultation plan. As the Class EA unfolds, additional target groups may be identified and added to this list.

The general public, including:

Property owners adjacent to the sewage pumping stations and treatment lagoon

J.L. Richards & Associates Limited

JLR No.: 31457-000

-2-

- Township residents and business owners
- Neighbouring municipalities
- Indigenous communities

Government organizations and agencies, including:

- Township of Alfred-Plantagenet Council and Staff
- South Nation Conservation (SNC)
- Eastern Ontario Health Unit (EOHU)
- United Counties of Prescott and Russell (UCPR)
- Ontario Ministry of the Environment, Conservation and Parks (MECP)
- Ontario Ministry of Northern Development, Mines, Natural Resources and Forestry (NDMNRF)
- Ontario Ministry of Indigenous Affairs (IAO)
- Ontario Ministry of Heritage, Sport, Tourism and Culture Industries (MHSTCI)
- Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA)
- Ontario Ministry of Municipal Affairs and Housing (MMAH)
- Ministry of Transportation (MTO)

6.0 **Accessibility Standard for Customer Service**

It will be critical throughout the Class EA that services are provided in accordance with the Accessibility for Ontarians with Disabilities Act. This includes having respect for persons with a disability and using all reasonable efforts to ensure they have equal opportunity to obtain and provide input.

Throughout the Class EA, the consulting team will:

- Ensure that PICs and other consultation activities, when conducted in-person, are held in buildings with barrier-free access.
- Work with the Township and OCWA in providing accessible formats and communication supports.

7.0 **Key Messages**

Consistent messages with the appropriate tone and content will improve understanding among target audiences. The message statements listed below are built on a current understanding of the existing audiences, constraints, opportunities, and environmental concerns surrounding the Class EA. These messages should be communicated throughout the Class EA and refined, as required, as it unfolds.

J.L. Richards & Associates Limited November 2021 JLR No.: 31457-000 -3-

- The current raw sewage flows to the Plantagenet Lagoon since 2014 have been at or above its rated capacity and have impacted the Township's ability to approve future development. The new wastewater system must reliably be able to convey and treat existing raw sewage flows as well as any additional flows from potential future developments.
- Effluent quality issues for TSS and CBOD₅ have presented operational challenges and have resulted in exceedances of effluent compliance limits. In addition to regulatory compliance, these issues have also impacted the community's ability to grow via development.
- The existing C of A is dated April 2004 and only provides effluent limits for BOD₅, TSS and total phosphorous (TP). Any capacity expansion or upgrade will require an Environmental Compliance Approval (ECA) amendment, which is highly likely to introduce more stringent effluent requirements that will need to be met (e.g., Total Ammonia Nitrogen (TAN)). This parameter adds to the treatment complexity and may have the potential to increase size and scope of proposed work.
- The existing treatment system C of A only allows effluent to be discharged seasonally during the Spring (April 1 to May 31) and Fall (November 1 to December 20). Consideration will be made to extend discharge windows to allow for greater operational flexibility.
- The Township, OCWA and the consulting team members are committed to this Class EA and are placing an emphasis on a seamless, open, transparent, and traceable study process.

8.0 **Recommended Community Consultation Activities**

A variety of stakeholder consultation vehicles and mechanisms are recommended to achieve the objectives of this stakeholder consultation plan. Care has been taken in selecting activities that recognize the needs of the local community and government organizations along with their specific information requirements.

8.1 **Public Information Centers**

PICs, either in-person or virtually, provide a good mechanism for the local community to be informed about and comment on the Class EA.

Two PICs will be conducted during this Class EA process. PIC No. 1 will be conducted following the preparation of the Alternatives Report, which will identify alternative solutions to address the problems and opportunities identified in Phase 1. Stakeholder input will be considered in evaluating the alternatives and selecting a preferred solution that will be documented in a Phase 2 Report. Similarly, PIC No. 2 will be conducted following the preparation of an Alternative Designs Report, which will identify alternative design concepts for the preferred solution identified in Phase 2. Stakeholder input will be considered in evaluating the alternative design concepts and selecting a preferred design that will be documented in a Phase 3 Summary Report. Stakeholder consultation is a mandatory requirement for Phase 2 and 3 of a Class EA.

J.L. Richards & Associates Limited November 2021 -4-

Both PICs will be designed to be welcoming and provide opportunities for residents to speak directly with the consulting team, Township and OCWA. These can take a variety combination of forms, especially during the COVID-19 pandemic (e.g., virtual or in-person formal presentations with a question-and-answer session and/or display boards with informal one-on-one discussions. etc.). The appropriate PIC formats will be dictated by the complexity of the alternatives, length of slides, accessibility requirements, and public health restrictions at the time of the PICs. Residents will be encouraged to fill out comment sheets to provide feedback to the consulting team.

8.2 Class EA Notices

To engage the public and other stakeholders, Class EA and PIC notices should be placed in the information pages of local newspapers and websites and posted at the Township office. Notices will also be direct mailed/e-mailed to identified stakeholders, agencies, and adjacent property owners. Class EA notices could also be provided to the Township Council to allow Councillors to inform their constituents about the Class EA.

8.3 Website

To assist the public in obtaining information about the Class EA and to provide an on-going mechanism for feedback to the consulting team, the Township should provide space on their website for Class EA documents and updates. Information for the website could include: notices for PICs, reports/executive summaries, technical memos, and contact information.

Opportunities to Comment 8.4

At all public meetings, the public and other stakeholders should be encouraged to leave comments. Following each consultation activity, a report will be written to summarize and record the comments received from the participants, as well as actions taken by the project team.

At the beginning of the Class EA, email and voice mail feedback tools should also be established to provide the public and other stakeholders with additional avenues to provide input and ask questions. These feedback tools should be promoted on all communications materials.

8.5 **Timing of Public Consultation**

As noted above, PICs will be conducted at two critical points in the Class EA process. The first will be held in the spring of 2022 and the second in the fall of 2022. The first meeting will be held prior to finalizing the preferred solution and the second will be held prior to confirming the preferred design.

Evaluation Mechanisms 9.0

The following activities should be undertaken to evaluate the effectiveness of the stakeholder consultation plan:

- Review attendance numbers at the PICs.
- Request formal and informal feedback on the consultation process at PICs, meetings and on the study website.

J.L. Richards & Associates Limited November 2021 -5-

JLR No.: 31457-000

- Track the number of visits to the study website and evaluate changes in traffic that occur
 in response to consultation events (e.g., mailing or emailing out notices).
- Examine the number and content of emails received from the public versus other stakeholders.

10.0 Conclusions

The Township is undertaking an important project with the Plantagenet Wastewater Class EA. The activities contained in the stakeholder consultation plan reflect the need to engage the public and regulatory agencies throughout the Class EA process. The public consultation plan has been developed to ensure that the public and other stakeholders are important and significant participants in the Class EA process.

Maintaining a clear, transparent and inclusive consultation process will ensure meaningful dialogue, which in turn will enable the realization of innovative and achievable wastewater collection, conveyance and treatment strategies.



Appendix D2

Stakeholder Mailing List

VERS	VERSION: NOVEMBER 2023									
Email	Mail		Email	NAME1	NAME2	AGENCY	MAIL1	MAIL2	CITYPROV	POSTCODE
PUBL	С									
Public	- All Use	ers of System - F	or Public Open Hous	se .						
Public	- Reques	sted to be includ	led in Project Corres	pondences (not listed above)						
Public	- Attend	lees of PIC No. 1	(not listed above)							
	ſ				<u> </u>		ı			
Public	- Attend	lees of PIC No. 2	(not listed above)							

Email	Mail	Email	NAME1	NAME2	AGENCY	MAIL1	MAIL2	CITYPROV	POSTCODE
AGENC	IES							•	
•		Jon.Orpana@ontario.ca	Jon Orpana	Environmental Resource Planner and EA Coordinator,	Ministry of the Environment, Conservation and Parks	135 St Clair Avenue West, 7th Floor		Toronto ON	M4V 1P5
				Environmental Assessment Branch					
✓		adam.worth@ontario.ca	Adam Worth	District Manager (A), Kemptville Work Center	Ministry of Natural Resources and Forestry	of Natural Resources and Forestry 10 Campus Drive, Unit 1		Kemptville ON	K0G 1J0
✓		catherine.warren@ontario.ca	Catherine Warren	Regional Planner	Ministry of Natural Resources and Forestry 300 Water Street, 4th Floor			Peterborough ON	K9J 3C7
✓		SMancini@nation.on.ca	Sandra Mancini	3 3			PO Box 29	Finch ON	K0C 1K0
✓		clemay@nation.on.ca	Claire Lemay	Senior Planner			PO Box 29	Finch ON	K0C 1K0
✓		jmainville@prescott-russell.on.ca Jean-Francois Mainville Public Works, Plantagenet		· · · · · · · · · · · · · · · · · · ·	United Counties of Prescott and Russell	PO Box 304	L'Orignal ON	K0B 1K0	
✓		lprevost@prescott-russell.on.ca			United Counties of Prescott and Russell	PO Box 304	L'Orignal ON	K0B 1K0	
✓		karla barboza@ontario.ca	Karla Barboza	Team Lead - Heritage, Heritage Planning Unit, Heritage	Ministry of Tourism, Culture and Sport	400 University Ave, 5th Floor		Toronto ON	M7A 2R9
				Branch, Citizenship, Inclusion and Heritage Division					
✓		jennifer.davey@opp.ca	Jennifer Davey	Administrative Assistant, Research and Program	Ontario Provincial Police	777 Memorial Avenue, 2nd Floor		Orillia ON	L3V 7V3
				Evaluation Unit / Research Planning & Analysis Section					
✓		omafra.eanotices@ontario.ca	Ken Mott	Rural Planner, Eastern and Northeastern Ontario (Acting),	Ministry of Agriculture, Food and Rural Affairs	Provincial Government Bldg 1st Floor, 59	PO Box 2004	Kemptville ON	K0G 1J0
		ken.mott@ontario.ca		Land Use Policy and Stewardship, Food Safety and		Ministry Road			
				Environmental Policy Branch					
✓		michael.elms@ontario.ca	Michael Elms	Manager, Community Planning and Development,	Ministry of Municipal Affairs and Housing	Rockwood House, 8 Estate Lane		Kingston ON	K7M 9A8
				Eastern Ontario Services Office					
✓		fuad.abdi@ontario.ca	Fuad Abdi		Ministry of the Solicitor General	25 Grosvenor St (George Drew Bldg), 13th		Toronto ON	M7A 1Y6
				Corporate Services Division		Floor			
✓		tracey.burton@ontario.ca	Tracey Burton	Manager of Strategic Support Unit (A), Strategic Services	Ministry of Mines	Willet Green Miller Ctr 2nd Flr, 933 Ramsey	/	Sudbury ON	P3E 6B5
				Branch, Mines and Minerals Division		Lake Rd			
✓		jodie.mcconnell@ontario.ca	Jodie McConnell	Senior Strategic Initiatives Lead, Strategic Services	Ministry of Mines	Willet Green Miller Ctr 2nd Flr, 933 Ramsey	/	Sudbury ON	P3E 6B5
				Branch, Mines and Minerals Division		Lake Rd			
Email		Email	NAME1	NAME2	AGENCY	MAIL1	MAIL2	CITYPROV	POSTCODE
ABORIG	INAL C	OMMUNITIES							
✓		algonquins@tanakiwin.com Consultation Office			Algonquins of Ontario	31 Riverside Drive, Suite 101		Pembroke ON	K8A 8R6
	✓		Administration Office		Kitigan Zibi Anishinabeg	1 Paganakomin Mikan	P.O. Box 309	Maniwaki QC	J9E 3C9
									\perp

Environmental Study Report Plantagenet Wastewater Municipal Class Environmental Assessment

Appendix D3

Notice of Study Commencement

NOTE: This email (and attachments) is representative of all emails delivered to stakeholders.

Nicolas Bialik

From: Nicolas Bialik

Sent: Thursday, December 2, 2021 9:21 AM

To: info@eohu.ca

Cc: Jordan Morrissette; JGendron@alfred-plantagenet.com

Subject: Plantagenet Wastewater Schedule 'C' Class EA Consultation - Notice of Study

Commencement

Attachments: Plantagenet WW Class EA_NOC Cover Letter_EOHU_Info.pdf

Hello,

Please find attached letter and Notice of Study Commencement for the Plantagenet Wastewater Class EA, initiated by the Township of Alfred-Plantagenet. You have been identified as a key agency stakeholder for this study, and as such, are invited to join our mailing list and/or provide comments as the study progresses.

Please respond to this email or contact either of the two (2) project contacts found in the attached notice if you wish to be excluded on future project correspondences, or if you have any immediate feedback to provide for the initial phases of the study.

We look forward to hearing from you.

Regards,

J.L.Richards
ENGINEERS · ARCHITECTS · PLANNERS

J.L. Richards & Associates Limited 864 Lady Ellen Place Ottawa, ON Canada K1Z 5M2

Tel: 613 728 3571 Fax: 613 728 6012

December 2, 2021 Our File: 31457-000

VIA E-Mail info@eohu.ca

Eastern Ontario Health Unit 1000 Pitt Street Cornwall, ON K6J 5T1

To whom it may concern:

Re: Notice of Commencement for the Township of Alfred-Plantagenet Plantagenet Wastewater Class Environmental Assessment

The Township of Alfred-Plantagenet has initiated a Class Environmental Assessment (Class EA) to determine the most suitable expansion(s) and/or upgrade(s) to the Plantagenet wastewater system to effectively convey and treat wastewater generated from the existing service area and potential additional flows from future development. The Plantagenet wastewater system consists of a network of sanitary sewers, two (2) sewage pumping stations, and a lagoon treatment system discharging treated effluent to the South Nation River.

The study is initially being carried out as a Schedule 'C' project under the Municipal Class EA process due to anticipated expansion of the treatment system beyond its current rated capacity. Consultation with interested parties will be an important part of this process. A Notice of Commencement is being published locally and being issued to agencies and organizations that may have an interest in the study. A copy of the Notice of Commencement is attached for your information.

You are invited to join our mailing list and/or provide comments as the study progresses. You are also invited to attend the two proposed Public Information Centres; the first will be held in the spring of 2022 and the second in the fall of 2022.

Responses can be emailed or mailed to the address provided in the Notice of Commencement. If you have any questions or concerns, please contact the undersigned.

Yours very truly,
J.L. RICHARDS & ASSOCIATES LIMITED

Jordan Morrissette, M.Eng., P.Eng. Environmental Engineer

NB/JM:jd

cc: Jonathan Gendron, P.Eng., Township of Alfred-Plantagenet
Attachments: Notice of Commencement for Plantagenet Wastewater Class EA



Notice of Study Commencement



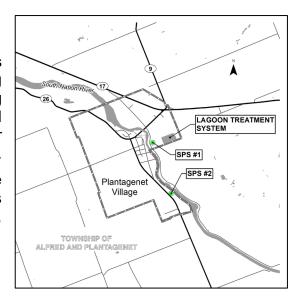
Township of Alfred-Plantagenet Plantagenet Wastewater System Schedule C Class Environmental Assessment

The Township of Alfred-Plantagenet has initiated a Class Environmental Assessment (Class EA) to determine the most suitable expansion and/or upgrades to the Plantagenet wastewater collection and treatment system to effectively convey and treat wastewater generated from the existing service area and potential additional flows from future development.

How Will This Affect Me?

The study will assess current & future requirements of the Plantagenet Wastewater System, including assessing the sanitary sewers, sewage pumping stations, forcemains, lagoon and effluent piping, and make recommendations for upgrading and/or expanding the system to meet the Township's needs.

Public & agency consultation is a key element of the process. Based on your input, alternative strategies will be evaluated to identify optimal community, environmental and economic opportunities.



How Do I Get More Information?

A Public Information Centre (PIC) will be conducted in the spring of 2022 prior to finalizing the preferred solution. In the meantime, the study team is reviewing background data and determining alternative solutions.

Updates will be provided throughout the study on the Township website. If you have any questions regarding the study, please visit the website at www.alfred-plantagenet.com. You are also invited to contact a member of the study team at anytime with questions or to provide input into the study.



TO FIND OUT MORE VISIT www.alfred-plantagenet.com

Jordan Morrissette, P.Eng. Environmental Engineer J.L. Richards & Associates Ltd. 864 Lady Ellen Place Ottawa, ON K1Z 5M2 imorrissette@jlrichards.ca

Phone: 343-804-5379

Jonathan Gendron, P.Eng.
Municipal Engineer, Township of
Alfred-Plantagenet, 205 Old
Highway 17, P.O. Box 350,
Plantagenet, ON K0B 1L0
jgendron@alfred-plantagenet.com
Phone: 613-673-4797 ext. 226

This study is being conducted according to the requirements of a Schedule C project under the Municipal Class Environmental Assessment process (October 2000, as amended in 2015).

This Notice issued December 2, 2021.

Avis de Début D'Étude



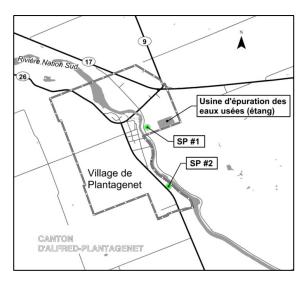
Canton d'Alfred-Plantagenet System d'eaux usées de Plantagenet Étude environnementale de portée générale Annexe C

Le Canton d'Alfred-Plantagenet entreprend une étude environmentale de portée generale pour déterminer les options d'agrandissement et/ou d'amélioration du système de collection et de traitement d'eaux usées du Village de Plantagenet.

En quoi cela vous concerne?

L'étude évaluera les besoins actuels et futurs du système de collection et de traitement d'eaux usées de Plantagenet, y compris les égouts sanitaires, les stations de pompages, conduite de refoulement. étang d'épuration et conduite d'évacuation, et fera des recommendations concernant l'agrandissement ou l'amélioration du système.

La consultation des partis prenants fait partie intégrante de l'étude. Vos commentaires aideront à identifier et évaluer les impacts communautaires, environnementaux et économiques des options proposées.



Vous voulez plus d'information?

Une séance d'information publique aura lieu au printemps de 2022, avant de finaliser la solution privilégiée. Entre temps, l'équipe d'étude examinera les données de fonds et identifiera les alternatives possibles. Vous êtes invités à contacter les members de l'équipe d'études avec vos questions et demandes de renseignements.

Des mises à jour régulières seront publiées au site web du Canton tout au long de l'étude. Si vous avez des questions au sujet de l'étude, veuillez consulter le site web www.alfred-<u>plantagenet.com</u> ou communiquer directement avec une des personnes ci-dessous.



POUR EN SAVOIR PLUS, **CONSULTEZ**

www.alfred-plantagenet.com

Jordan Morrissette, P.Eng. Ingénieur en environnement J.L. Richards & Associates Ltd. 864 Place Lady Ellen Ottawa, ON K1Z 5M2 imorrissette@ilrichards.ca Tél: 343-804-5379

Jonathan Gendron, P.Eng. Ingénieur municipal, Canton Alfred-Plantagenet, 205 Vieille route 17, Case postale 350, Plantagenet, ON K0B 1L0 igendron@alfred-plantagenet.com

Tél.: 613-673-4797, poste 226

Cette étude est réalisée en vertu des dispositions de l'annexe C du processus d'évaluation environnementale municipale de portée générale (octobre 2000, modifiée en 2015).

Cet avis a été publié le 2 decembre 2021.



sur son lit. Si vous souhaitez faire don d'un livre ou d'une revue à ce programme important, veuillez consulter le site Woh d'un livre ou d'une revue à ce programme important, veuillez consulter le site Web de la bibliothèque à bc-cl.ca pour remplir un formulaire de soumission en line







Achetez 2 unités et recevez 2 500\$ Achetez 3 unités et recevez 5 000\$ Système central ultra basse température recevez 5 000\$

PASSEZ NOUS VOIR EN MAGASIN POUR PLUS D'INFO

FAITES AFFAIRE AVEC UNE ÉQUIPE DE PROFESSIONNELS

Lortie Réfrigération Inc.

202 Cameron, Hawkesbury, On K6A 2X8 Téléphone: 613 632-8742 Fax: 613 632-2074 1 800-336-0361

Avis de Début D'Étude

Canton d'Alfred-Plantagenet System d'eaux usées de Plantagenet Étude environnementale de portée générale Annexe C

Le Canton d'Alfred-Plantagenet entreprend une étude environmentale de portée generale pour déterminer les options d'agrandissement et/ou d'amélioration du système de collection et de traitement d'eaux usées du Village de Plantagenet.

Enquoi cela vous concerne?

avous

Toutefois, taient de

leur avait

manque

e match,

en deu-

ower play

comme

tunités,

nquées antage

ments

sbury s'est

tawa, plus

nitri

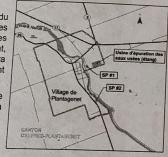
son ren-

lus

er

istude évaluera les besoins actuels et futurs du me de collection et de traitement d'eaux usées Penlagenet, y compris les égouts sanitaires, les tions de pompages, conduite de refoulement. and dépuration et conduite d'évacuation, et fera secommendations concernant l'agrandissement a l'amélioration du système.

la consultation des partis prenants fait partie négante de l'étude. Vos commentaires aideront à tentifier et évaluer les impacts communautaires, enfonnementaux et économiques des options



Yous voulez plus d'information?

lessance d'information publique aura lieu au printemps de 2022, avant de finaliser la solution milible. Entre temps, l'équipe d'étude examinera les données de fonds et identifiera les ematives possibles. Vous êtes invités à contacter les members de l'équipe d'études avec os questions et demandes de renseignements.

le mises à jour régulières seront publiées au site web du Canton tout au long de l'étude. Si nus avez des questions au sujet de l'étude, veuillez consulter le site web www.alfredsatsgenet.com ou communiquer directement avec une des personnes ci-dessous.



Jordan Morrissette, P.Eng. Ingénieur en environnement J.L. Richards & Associates Ltd. 864 Place Lady Ellen Ottawa, ON K1Z 5M2 imorrissette@ilrichards.ca Tél: 343-804-5379

Jonathan Gendron, P.Eng. Ingénieur municipal, Canton Alfred-Plantagenet, 205 Vieille route 17, Case postale 350, Plantagenet, ON K0B 1L0 jgendron@alfred-plantagenet.com Tél.: 613-673-4797, poste 226

the étude est réalisée en vertu des dispositions de l'annexe C du processus d'évaluation informementale municipale de portée générale (octobre 2000, modifiée en 2015).

Cet avis a été publié le 29 novembre 2021.

Notice of Study Commencement



Township of Alfred-Plantagenet Plantagenet Wastewater System Schedule C Class Environmental Assessment

The Township of Alfred-Plantagenet has initiated a Class Environmental Assessment (Class EA) to determine the most suitable expansion and/or upgrades to the Plantagenet wastewater collection and treatment system to effectively convey and treat wastewater generated from the existing service area and potential additional flows from future development.

How Will This Affect Me?

The study will assess current & future requirements of the Plantagenet Wastewater System, including assessing the sanitary sewers, sewage pumping stations, forcemains, lagoon and effluent piping, and make recommendations for upgrading and/or expanding the system to meet the Township's needs.

Public & agency consultation is a key element of the process. Based on your input, alternative strategies will be evaluated to identify optimal community, environmental and economic opportunities.

SPS #1

How Do I Get More Information?

A Public Information Centre (PIC) will be conducted in the spring of 2022 prior to finalizing the preferred solution. In the meantime, the study team is reviewing background data and determining alternative solutions.

Updates will be provided throughout the study on the Township website. If you have any questions regarding the study, please visit the website at www.alfred-plantagenet.com. You are also invited to contact a member of the study team at anytime with questions or to provide input into the study.



TO FIND OUT MORE VISIT www.alfred-plantagenet.com Jordan Morrissette, P.Eng. **Environmental Engineer** J.L. Richards & Associates Ltd. 864 Lady Ellen Place Ottawa, ON K1Z 5M2 jmorrissette@jlrichards.ca Phone: 343-804-5379

Jonathan Gendron, P.Eng. Municipal Engineer, Township of Alfred-Plantagenet, 205 Old Highway 17, P.O. Box 350. Plantagenet, ON K0B 1L0 jgendron@alfred-plantagenet.com Phone: 613-673-4797 ext. 226

This study is being conducted according to the requirements of a Schedule C project under the Municipal Class Environmental Assessment process (October 2000, as amended in 2015).

This Notice issued November 29, 2021.



Notice of Study Commencement - Plantagenet Wastewater System

Posted on Monday, November 29, 2021

The Township of Alfred and Plantagenet Wastewater System Schedule C Class Environmental Assessment

The Township of Alfred and Plantagenet has initiated a Class Environmental Assessment (Class EA) to determine the most suitable expansion and/or upgrades to the Plantagenet wastewater collection and treatment system to effectively convey and treat wastewater generated from the existing service area and potential additional flows from future development.

How will this affect me?

The study will assess current and future requirements of the Plantagenet Wastewater System, including assessing the sanitary sewers, sewage pumping stations, forcemains, lagoon and effluent piping, and make recommendations for upgrading and/or expanding the system to meet the Township's needs.

Public and agency consultations is a key element of the process. Based on your input, alternative strategies will be evaluated to identify optimal community, environmental and economic opportunities.

How Do I Get More Information?

A Public Information Centre (PIC) will be conducted in the spring of 2023 prior to finalizing the preferred solution. In the meantime, the study team is reviewing background data and determining alternative solutions

Updates will be provided throughout the study on the Township website. If you have any questions regarding the study, please visit our website at www.alfred-plantagenet.com. You are also invited to contact a member of the study team at anytime with questions or to provide input into the study.

Jordan Morrissette, M.Eng., P.Eng.

Associate, Senior Environmental Engineer J.L. Richards & Associates Limited 343 Preston Street Tower II, Suite 1000 Ottawa, ON K1S 1N4 imorrisette@jlrichards.ca

Jonathan Gendron, P.Eng.

Director of Building, Planning, Engineering and Environment Township of Alfred and Plantagenet 205 Old Highway 17 Plantagenet, ON K0B 1L0 jgendron@alfred-plantagenet.com

This study is being conducted according to the requirements on a Schedule C project under the Municipal Class Environmental Assessment process (October 2000, as amended in 2015).

This Notice was issued on November 29, 2021.

Contact Us

Township of Alfred and Plantagenet

205 Old Highway 17 P.O. Box 350 Plantagenet, Ontario K0B 1L0

Phone: <u>613-673-4797</u> Fax: 1-877-224-9655

Email Us

Township of Alfred and Plantagenet

205 Old Highway 17 P.O. Box 350 Plantagenet, Ontario K0B 1L0

Phone: <u>613-673-4797</u> Fax:1-877-224-9655

<u>Email</u>

© 2021 Township of Alfred and Plantagenet

Designed by eSolutionsGroup (http://www.esolutionsgroup.ca)

Environmental Study Report Plantagenet Wastewater Municipal Class Environmental Assessment

Appendix D4

Record of Stakeholder Comments

MECP EMAIL THREAD: Assimilative Capacity Assessment Consultation and Correspondences with MECP Re: Effluent Criteria

Nicolas Bialik

From: Baxter, Sarah (She/Her) (MECP) <Sarah.Baxter@ontario.ca>

Sent: Thursday, February 29, 2024 8:40 AM

To: Nicolas Bialik; Orpana, Jon (MECP); JGendron@alfred-plantagenet.com; Melody

Johnson; Jordan Morrissette

Cc: Camila Valcarcel; Susan Jingmiao Shi; Castro, Victor (MECP); Michael Hulley

Subject: RE: Plantagenet WW Class EA - Effluent Criteria Discussion

[CAUTION] This email originated from outside JLR. Do not click links or open attachments unless you recognize the sender and know the content is safe. Do not forward suspicious emails, if you are unsure, please send a separate message to Helpdesk.

Good morning Nicolas et al.

Thank you for the meeting last week to further explain the modelling approach and results.

Based on that discussion, and further review of the draft ACS and supporting documents, I have no further objections to the proposed effluent objectives and limits as follows:

Table 20: Proposed Effluent Objectives and Limits - Phase 1 - 10-Year (2032).

Parameter	Averaging Period	Objective (mg/L unless noted otherwise)	Limit (mg/L unless noted otherwise)		
cBOD ₅	Monthly	15	20		
TSS	Monthly	20	25		
TAN	188 0				
Oct 1 - 31		4.5	5.0		
Nov 1 - 30		7.0	7.5		
Dec 1 - 31	Monthly	10.0	12.0		
Jan 1 - Feb 28		12.0	14.0		
Mar 1 - 31		10.0	12.0		
Apr 1 - 30		5.0	5.5		
May 1 - 31		3.0	3.5		
TP	Monthly	0.3	0.33		
E. coli	Monthly	150 cfu/100 mL	200 cfu/100 mL		
рH	Single Grab	6.5 to 9.0	6.0 to 9.5		

Table 21: Proposed Effluent Objectives and Limits - Phase 2 - 20-Year (2042).

Parameter	Averaging Period	Objective (mg/L unless noted otherwise)	Limit (mg/L unless noted otherwise) 20		
cBOD ₅	Monthly	15			
SS Monthly		20	25		
TAN					
Oct 1 - 31		4.5	5.0 7.5 12.0		
Nov 1 - 30		7.0			
Dec 1 - 31	Monthly	10.0			
Jan 1 - Feb 28		12.0	14.0		
Mar 1 - 31		10.0	12.0		
Apr 1 - 30		5.0	5.5		
May 1 - 31		3.0	3.5		
TP	Monthly	0.2	0.23		
E. coli	Monthly	150 cfu/100 mL	200 cfu/100 mL		
pH	Single Grab	6.5 to 9.0	6.0 to 9.5		

Let me know if you need anything further.

Sarah Baxter

Surface Water Specialist Technical Support Section – Eastern Region Ministry of the Environment, Conservation and Parks 1259 Gardiners Road, Unit 3, Kingston ON, K7P 3J6

E: sarah.baxter@ontario.ca

From: Nicolas Bialik <nbialik@jlrichards.ca>

Sent: February 23, 2024 10:04 AM

To: Baxter, Sarah (She/Her) (MECP) <Sarah.Baxter@ontario.ca>; Orpana, Jon (MECP) <Jon.Orpana@ontario.ca>; Jon.Orpana@ontario.ca>; Jordan Morrissette <jmorrissette@jlrichards.ca>

Cc: Camila Valcarcel <cvalcarcel@jlrichards.ca>; Susan Jingmiao Shi <sshi@jlrichards.ca>; Castro, Victor (MECP) <Victor.Castro@ontario.ca>; Michael Hulley <Michael.Hulley@bskyeng.com>

Subject: RE: Plantagenet WW Class EA - Effluent Criteria Discussion

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

Thank you all for attending this meeting. I have added below key notes and action items from the meeting, as well as attached the PowerPoint presentation and other items listed below.

- It was noted that, pending confirmation on the effluent criteria, the Environmental Study Report is complete. JLR to provide draft report to the MECP so that they may begin their review. **Post-Meeting Note:** JLR submitted the draft ESR to the MECP on February 23, 2024.
- JLR noted that the preferred solution for the upgrades to the Plantagenet WWTS Upgrades include the expansion of the discharge window to October 1 May 31, additional lagoons for storage and pre-treatment, participation in the South Nation River Total Phosphorous Management Program, and addition of a Submerged Attached Growth Reactor(s) (SAGR) for tertiary treatment prior to discharge.
- It was noted that the Township intends to proceed with the design of the Phase 1 Upgrades (ADF expansion from 747 m3/day to 1,390 m3/day) as soon as the Class EA is finalized and nominate this project for the HEWSF funding. It is therefore important that the Class EA be finalized as soon as possible.
- The latest comments/questions from the MECP were discussed, as per wording below in blue:
 - Does the modelling exercise specifically pertain to TSS, or do the estimated mixing zone sizes pertain to all effluent parameters? Blue Sky noted that the modelling exercise pertains to all effluent parameters.
 - The Phase 2 mixing zones are smaller than the Phase 1 mixing zones. The report states that "the large increase in effluent flow from 2,200 m³/d to 4,500 m³/d increases near-field mixing and actually reduces the distance required to achieve completely mixed conditions." Considering that Phase 2 would involve a significantly higher effluent loading, and that the report states that the model didn't predict well for near-field results, I am skeptical of these results and recommend additional modelling (or field work) be completed to verify these findings.
 - The size of the predicted mixing zone is extremely large for most of the months, based on the proposed effluent criteria. Policy 5 of the Ministry Blue Book states that "Mixing zones should be as small as possible and not interfere with beneficial uses. Mixing zones are not to be used as an alternative to reasonable and practical treatment". Based on these results, I think that the proposed objectives and limits for CBOD₅, TSS, and TAN need to be revisited to make the mixing zone as small as reasonably possible.
 - Since the ultimate hydraulic expansion is significant, reducing the effluent concentrations will also reduce the loadings to an already impaired waterbody.
 - The above comments/questions were reviewed as one.
 - Blue Sky described in detail the CORMIX modelling undertaken for the study, and explained the limitations of the modelling software, particularly for short field modelling. They noted that the far field results were more reliable and generally conservative.
 - Blue Sky listed the reports and memos they have submitted so far to the MECP. These include the following, which are attached to the email for reference:
 - Ambient Conditions and Proposed Approach Memorandum, May 2, 2022
 - Assimilative Capacity Study Report, November 11, 2022
 - Response to Reviewer Comments, June 27, 2023
 - Response to Review Comments, November 30, 2023
 - The MECP noted that would undertake another review of the memorandums and previous Blue Sky comments based upon information provided in the meeting, and identify next steps, if any, to be taken to finalize the effluent criteria. Action MECP.
- The MECP noted that they may recommend an adaptive ECA in order for effluent sampling and testing to be completed once the upgrades are completed.

Should v	ιου have anv	questions, or h	nave anv	clarifications	to add to the	he above	feel free to	respond to thi	s email

Regards,
-----Original Appointment-----

Nicolas Bialik, P.Eng. Environmental Engineer

J.L. Richards & Associates Limited 1000-343 Preston Street, Ottawa, ON K1S 1N4 Direct: 343-804-5346





From: Nicolas Bialik

Sent: Thursday, January 25, 2024 3:55 PM

To: Nicolas Bialik; Baxter, Sarah (She/Her) (MECP); Orpana, Jon (MECP); JGendron@alfred-plantagenet.com; Melody

Johnson; Jordan Morrissette

Cc: Camila Valcarcel; Susan Jingmiao Shi; Castro, Victor (MECP) **Subject:** Plantagenet WW Class EA - Effluent Criteria Discussion

When: Tuesday, February 20, 2024 2:30 PM-3:30 PM (UTC-05:00) Eastern Time (US & Canada).

Where: Microsoft Teams Meeting

Update: Rescheduled due to change in MECP availability. Based on initial feedback, a date of February 20, 2024, worked best for people involved. Will update meeting time as required.

Purpose of meeting is to develop a plan of action to resolve outstanding MECP comments on the effluent criteria proposed as part of the Schedule 'C' Plantagenet WW Class EA.

Sarah/Jon, Melody and Jonathan, please forward the meeting invite to individuals from the MECP, Blue Sky and Township, respectively, that I have not included.

I have attached the latest email correspondence from the MECP. Latest comments from the MECP are provided below:

I have several questions and concerns regarding the results of the CORMIX modelling exercise:

- Does the modelling exercise specifically pertain to TSS, or do the estimated mixing zone sizes pertain to all effluent parameters?
- The Phase 2 mixing zones are smaller than the Phase 1 mixing zones. The report states that "the large increase in effluent flow from 2,200 m³/d to 4,500 m³/d increases near-field mixing and actually reduces the distance required to achieve completely mixed conditions." Considering that Phase 2 would involve a significantly higher effluent loading, and that the report states that the model didn't predict well for near-field results, I am skeptical of these results and recommend additional modelling (or field work) be completed to verify these findings.
- The size of the predicted mixing zone is extremely large for most of the months, based on the proposed effluent criteria. Policy 5 of the Ministry Blue Book states that "Mixing zones should be as small as possible and not interfere with beneficial uses. Mixing zones are not to be used as an alternative to reasonable and practical treatment". Based on these results, I think that the proposed objectives and limits for CBOD₅, TSS, and TAN need to be revisited to make the mixing zone as small as reasonably possible.
- Since the ultimate hydraulic expansion is significant, reducing the effluent concentrations will also reduce the loadings to an already impaired waterbody.

Microsoft Teams meeting

Join on your computer, mobile app or room device Click here to join the meeting

Nicolas Bialik

From: Nicolas Bialik

Sent: Tuesday, January 16, 2024 3:39 PM **To:** Baxter, Sarah (She/Her) (MECP)

Cc: Jordan Morrissette; JGendron@alfred-plantagenet.com; Susan Jingmiao Shi; Camila

Valcarcel; Orpana, Jon (MECP); Melody Johnson

Subject: RE: Plantagenet WWTS - Phase 1 Report and ACS - SW Comments

Hi Sarah,

We have reviewed your comments together with Blue Sky and the Township, and believe a meeting would be beneficial to discuss your comments and determine appropriate next steps.

Please let me know you're availability over the next couple weeks, and I will let you know which times work for our group.

Thanks,

From: Baxter, Sarah (She/Her) (MECP) <Sarah.Baxter@ontario.ca>

Sent: Wednesday, December 20, 2023 3:48 PM

To: Nicolas Bialik <nbialik@jlrichards.ca>

Cc: Jordan Morrissette < jmorrissette@jlrichards.ca>; JGendron@alfred-plantagenet.com; Susan Jingmiao Shi < sshi@jlrichards.ca>; Camila Valcarcel < cvalcarcel@jlrichards.ca>; Orpana, Jon (MECP) < Jon.Orpana@ontario.ca>;

Melody Johnson <melody@bskyeng.com>

Subject: RE: Plantagenet WWTS - Phase 1 Report and ACS - SW Comments

[CAUTION] This email originated from outside JLR. Do not click links or open attachments unless you recognize the sender and know the content is safe. Do not forward suspicious emails, if you are unsure, please send a separate message to Helpdesk.

Hello Nicolas and all,

I apologize for my delay in responding, and I appreciate your patience. I reviewed the "*Plantagenet ACS – Response to Reviewer Comments*" dated November 30, 2023 and prepared by BlueSky Engineering.

I have several questions and concerns regarding the results of the CORMIX modelling exercise:

- Does the modelling exercise specifically pertain to TSS, or do the estimated mixing zone sizes pertain to all effluent parameters?
- The Phase 2 mixing zones are smaller than the Phase 1 mixing zones. The report states that "the large increase in effluent flow from 2,200 m³/d to 4,500 m³/d increases near-field mixing and actually reduces the distance required to achieve completely mixed conditions." Considering that Phase 2 would involve a significantly higher effluent loading, and that the report states that the model didn't predict well for near-field results, I am skeptical of these results and recommend additional modelling (or field work) be completed to verify these findings.

- The size of the predicted mixing zone is extremely large for most of the months, based on the proposed effluent criteria. Policy 5 of the Ministry Blue Book states that "Mixing zones should be as small as possible and not interfere with beneficial uses. Mixing zones are not to be used as an alternative to reasonable and practical treatment". Based on these results, I think that the proposed objectives and limits for CBOD₅, TSS, and TAN need to be revisited to make the mixing zone as small as reasonably possible.
- Since the ultimate hydraulic expansion is significant, reducing the effluent concentrations will also reduce the loadings to an already impaired waterbody.

Please let me know if you'd like to discuss this further. I'd be happy to set up a meeting.

Sarah Baxter

Surface Water Specialist Technical Support Section – Eastern Region Ministry of the Environment, Conservation and Parks 1259 Gardiners Road, Unit 3, Kingston ON, K7P 3J6

E: sarah.baxter@ontario.ca

From: Nicolas Bialik < nbialik@jlrichards.ca>

Sent: December 1, 2023 8:42 AM

To: Baxter, Sarah (She/Her) (MECP) < Sarah.Baxter@ontario.ca>; Melody Johnson < melody@bskyeng.com> **Cc:** Jordan Morrissette < jmorrissette@jlrichards.ca>; JGendron@alfred-plantagenet.com; Susan Jingmiao Shi < sshi@jlrichards.ca>; Camila Valcarcel < cvalcarcel@jlrichards.ca>; Orpana, Jon (MECP) < Jon.Orpana@ontario.ca>;

Castro, Victor (MECP) < Victor.Castro@ontario.ca >

Subject: RE: Plantagenet WWTS - Phase 1 Report and ACS - SW Comments

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

Thank you Sarah, we appreciate it.

Nicolas Bialik, P.Eng. Environmental Engineer

J.L. Richards & Associates Limited 1000-343 Preston Street, Ottawa, ON K1S 1N4 Direct: 343-804-5346





From: Baxter, Sarah (She/Her) (MECP) < Sarah.Baxter@ontario.ca>

Sent: Friday, December 1, 2023 8:41 AM

To: Nicolas Bialik <nbialik@jlrichards.ca>; Melody Johnson <melody@bskyeng.com>

Cc: Jordan Morrissette < <u>imorrissette@jlrichards.ca</u>>; <u>JGendron@alfred-plantagenet.com</u>; Susan Jingmiao Shi < <u>sshi@jlrichards.ca</u>>; Camila Valcarcel < <u>cvalcarcel@jlrichards.ca</u>>; Orpana, Jon (MECP) < <u>Jon.Orpana@ontario.ca</u>>;

Castro, Victor (MECP) < Victor. Castro@ontario.ca>

Subject: RE: Plantagenet WWTS - Phase 1 Report and ACS - SW Comments

[CAUTION] This email originated from outside JLR. Do not click links or open attachments unless you recognize the sender and know the content is safe. Do not forward suspicious emails, if you are unsure, please send a separate message to Helpdesk.

Good morning Nicolas,

I just opened Melody's memo and hope to have my review done today or by Monday at the latest.

I will make sure to forward along my comments as soon as they're ready.

Sarah Baxter

Surface Water Specialist Technical Support Section – Eastern Region Ministry of the Environment, Conservation and Parks 1259 Gardiners Road, Unit 3, Kingston ON, K7P 3J6

From: Nicolas Bialik <nbialik@jlrichards.ca>

Sent: December 1, 2023 8:38 AM

E: sarah.baxter@ontario.ca

To: Melody Johnson <melody@bskyeng.com>; Baxter, Sarah (She/Her) (MECP) <<u>Sarah.Baxter@ontario.ca</u>>
Cc: Jordan Morrissette <<u>imorrissette@jlrichards.ca</u>>; <u>JGendron@alfred-plantagenet.com</u>; Susan Jingmiao Shi <<u>sshi@jlrichards.ca</u>>; Camila Valcarcel <<u>cvalcarcel@jlrichards.ca</u>>; Orpana, Jon (MECP) <<u>Jon.Orpana@ontario.ca</u>>; Castro, Victor (MECP) <<u>Victor.Castro@ontario.ca</u>>

Subject: RE: Plantagenet WWTS - Phase 1 Report and ACS - SW Comments

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

Hi Sarah,

Note that we are planning to issue the Study Notice of Completion on Wednesday, December 6, 2023, and would like to incorporate MECP responses in the ESR.

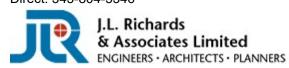
We would therefore appreciate a response to the comments by December 5, 2023, if possible. If you don't believe responses/comments can be provided by then, could you let us know when you think comments will be provided so that we can assess with the Township when to proceed with the Notice.

Should you have any questions, please let us know.

Thank you,

Nicolas Bialik, P.Eng. Environmental Engineer

J.L. Richards & Associates Limited 1000-343 Preston Street, Ottawa, ON K1S 1N4 Direct: 343-804-5346





From: Melody Johnson < melody@bskyeng.com>
Sent: Thursday, November 30, 2023 5:17 PM

To: Baxter, Sarah (She/Her) (MECP) <Sarah.Baxter@ontario.ca>

Cc: Jordan Morrissette < <u>imorrissette@jlrichards.ca</u>>; <u>JGendron@alfred-plantagenet.com</u>; Susan Jingmiao Shi < <u>sshi@jlrichards.ca</u>>; Camila Valcarcel < <u>cvalcarcel@jlrichards.ca</u>>; Orpana, Jon (MECP) < <u>Jon.Orpana@ontario.ca</u>>;

Castro, Victor (MECP) < Victor.Castro@ontario.ca >; Nicolas Bialik < nbialik@jlrichards.ca >

Subject: RE: Plantagenet WWTS - Phase 1 Report and ACS - SW Comments

[CAUTION] This email originated from outside JLR. Do not click links or open attachments unless you recognize the sender and know the content is safe. Do not forward suspicious emails, if you are unsure, please send a separate message to Helpdesk.

Hi Sarah,

Attached please find a memorandum that provides responses to your questions regarding mixing zone characteristics and lengths (per your comments sent via email on November 20, 2023, see below).

Let me know if you have any additional questions or concerns.

Thanks,

Melody Johnson, PhD, P.Eng., Senior Consultant

melody@bskyeng.com | www.bskyeng.com | M. 647.721.7644

BLUE SKY Energy Engineering & Consulting Inc.

EXPERTISE | BEST PRACTICES | CREATIVE THINKING

From: Nicolas Bialik <<u>nbialik@jlrichards.ca</u>>
Sent: Thursday, November 23, 2023 5:37 PM

To: Baxter, Sarah (She/Her) (MECP) < Sarah.Baxter@ontario.ca>

Cc: Jordan Morrissette < <u>imorrissette@jlrichards.ca</u>>; <u>JGendron@alfred-plantagenet.com</u>; Susan Jingmiao Shi < <u>sshi@jlrichards.ca</u>>; Melody Johnson < <u>melody@bskyeng.com</u>>; Camila Valcarcel < <u>cvalcarcel@jlrichards.ca</u>>; Orpana,

Jon (MECP) < Jon. Orpana@ontario.ca >; Castro, Victor (MECP) < Victor. Castro@ontario.ca >

Subject: RE: Plantagenet WWTS - Phase 1 Report and ACS - SW Comments

Hi Sarah.

Thank you for the response. I have added below in green responses to your comments.

Please note that we will be issuing the notice of completion for the study in the next 2 weeks. We would therefore appreciate a quick response on our outstanding comments so that we can include them within the ESR.

Let us know if you have any questions.

Thank you,

Nicolas Bialik, P.Eng. **Environmental Engineer**

J.L. Richards & Associates Limited 1000-343 Preston Street, Ottawa, ON K1S 1N4 Direct: 343-804-5346





From: Baxter, Sarah (She/Her) (MECP) <<u>Sarah.Baxter@ontario.ca</u>>

Sent: Monday, November 20, 2023 11:51 AM To: Nicolas Bialik < nbialik@jlrichards.ca>

Cc: Jordan Morrissette < imorrissette@jlrichards.ca >; JGendron@alfred-plantagenet.com; Susan Jingmiao Shi

<sshi@jlrichards.ca>; Melody Johnson <melody@bskyeng.com>; Camila Valcarcel <cvalcarcel@jlrichards.ca>; Orpana,

Jon (MECP) < Jon.Orpana@ontario.ca>; Castro, Victor (MECP) < Victor.Castro@ontario.ca>

Subject: RE: Plantagenet WWTS - Phase 1 Report and ACS - SW Comments

[CAUTION] This email originated from outside JLR. Do not click links or open attachments unless you recognize the sender and know the content is safe. Do not forward suspicious emails, if you are unsure, please send a separate message to Helpdesk.

Hello Nicolas,

I apologize for my delayed reply. Thank you for your comments on my initial review of the ACS for the Plantagenet WWTS. My comments to your responses are presented in red font below.

Sarah Baxter

Surface Water Specialist Technical Support Section – Eastern Region Ministry of the Environment, Conservation and Parks 1259 Gardiners Road, Unit 3, Kingston ON, K7P 3J6

E: sarah.baxter@ontario.ca

From: Nicolas Bialik <nbialik@jlrichards.ca>

Sent: October 24, 2023 9:38 AM

To: Orpana, Jon (MECP) < Jon. Orpana@ontario.ca>

Cc: Jordan Morrissette <i morrissette@jlrichards.ca>; JGendron@alfred-plantagenet.com; Susan Jingmiao Shi <sshi@jlrichards.ca>; Melody Johnson <melody@bskyeng.com>; Camila Valcarcel <cvalcarcel@jlrichards.ca>; Baxter,

Sarah (She/Her) (MECP) <Sarah.Baxter@ontario.ca>

Subject: RE: Plantagenet WWTS - Phase 1 Report and ACS - SW Comments

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

Hi Jon,

Please find below our response in blue to Sarah's review comments (italicized below) on the Plantagenet WWTS Assimilative Capacity Assessment.

Please note that we held on providing a response to your comments until the Winchester Lagoon Upgrades ECA was finalized, given the similarities between the two projects. Sarah Baxter is aware of the revised assimilative capacity assessment completed for the Winchester WWTS, and we completed a similar revised assessment for the Plantagenet WWTS.

The following comments, relative to surface water impact concerns, are provided for your consideration.

The Plantagenet Wastewater Treatment System (WWTS) services the town of Plantagenet within the Township of Alfred and Plantagenet. The system is owned by the Township and is operated by the Ontario Clean Water Agency (OCWA). The system was constructed in 1970 and consists of gravity sewers, two pumping stations, a single facultative lagoon, and a gravity outfall to the South Nation River. The system is regulated by Environmental Compliance Approval (ECA) #4631-5WXQE9 and has a rated capacity of 561 m³/d. The WWTS is only permitted to discharge seasonally from April 1 to May 31 and November 1 to December 20 each year and there are no maximum discharge rates stipulated in the ECA. The ECA includes effluent objectives and limits for carbonaceous biochemical oxygen demand (CBOD5), total suspended solids (TSS), total phosphorous (TP), and pH.

Since 1988, the WWTS has been operating at or above the rated capacity of the works. As a result, effluent quality has not been consistently meeting its ECA limits, particularly for $CBOD_5$ and TSS. Because of these issues, along with other operational problems (i.e. algae, maintenance) and an expected increase in the Town's population in the next 10 to 20 years, the Township has initiated the Class EA process. In order to select the most suitable new/upgraded system, an assimilative capacity study (ACS) is necessary. The reviewed documents have been provided as a result.

The proposed ACS methodology was approved by the Ministry during a May 5, 2022 pre-submission consultation. The assessment incorporated 2000-2020 South Nation ambient water quality data from the Provincial Water Quality Monitoring Network (PWQMN) station 18207002002 and low flow data from the Water Survey of Canada (WSC) gauge 02LB005. Blue Sky applied increased wastewater flows of 1660 m³/d (Phase 1 – 10 years) and 2411 m³/d (Phase 2 – 20 years). Two discharge scenarios were considered: the existing seasonal discharge windows (Scenario A) and an extended seasonal window of October 1 to May 31 (Scenario B). **Note:** the comments below only discuss Phase 2 wastewater flows as they would represent the ultimate build-out and the worst-case scenario on the receiver.

Effluent Flows

Table 4.1 of the reviewed ACS includes proposed effluent discharge rates based on average monthly 7Q20 flows. The associated dilution ratios are as follows:

- January, Scenario B = 32:1
- February, Scenario B = 29:1
- March, Scenario B = 43:1
- April, Scenario A/B = 78:1
- May, Scenario A/B = 30:1
- October, Scenario B = 17:1
- November, Scenario A/B = 30:1
- December, Scenario A = 31:1
- December, Scenario B = 66:1

Dilution ratios should be as large as possible. Months with the greatest 7Q₂₀ flows (i.e. March, April, May, November, December) should be taken advantage of when selecting the discharge window and release rates should be apportioned to the long-term average 7Q₂₀ hydrograph.

The flows (and dilution ratio) for October appear to be too low to effectively assimilate the WWTS's effluent; this month should not be considered as part of Scenario B.

The proposed dilution ratio for October in Scenario B (17:1) is less that that of the other months (29:1 or more). Despite this, the proposed effluent discharge in the month of October would meet the downstream water quality targets as previously agreed-to by the MECP (e.g. fully-mixed UIA < PWQO, TP concentration increasing by no more than 5% above ambient). Furthermore, the projected downstream impacts on UIA and TP in the month of October are consistent with those of other proposed discharge months. We have measured the assimilative capacity as it relates to water quality impacts, which is consistent with Policy B-1-5. It is not immediately clear if MECP has a minimum dilution ratio that they would like us to target and, if so, what the rationale is for that target. It should also be noted that including discharge capacity in October will have a significant impact on the required storage volume for the system and therefore the projected additional required lagoon capacity.

I should not have stated that October should not be considered. I should have said that the lower dilution ration of 17:1 could be considered if additional work (i.e. mixing zone modeling) is completed and demonstrates that the mixing zone is small and it doesn't interfere with other river beneficial uses.

Thank you for the explanation. Blue Sky will be undertaking this additional work and will aim to have a memorandum to you by Wednesday, November 29, 2023 for your review.

TSS

The existing TSS objective is 20 mg/L and the limit is 25 mg/L.

Blue Sky have proposed to maintain the existing objective and limit. They indicate the proposed limit would result in a maximum downstream increase of 1.43 mg/L, which meets the long-term Canadian Water Quality Guideline (CWQG) of +5 mg/L.

I recommend that the objective and limit be reduced to 15 mg/L and 20 mg/L, respectively. Although the discharge quality does meet the long-term CWQG, the existing concentrations of TSS in the river are already elevated and loadings to the South Nation River will dramatically increase with the proposed increase in effluent flows.

We understand the concern with respect to particulate matter in the South Nation River. Nevertheless, our analysis of potential impact on downstream receiver TSS concentrations was conservative in nature. We had identified a maximum potential downstream TSS increase of 1.43 mg/L; however, this assumed no particulate matter in the receiver (ambient TSS concentration of 0 mg/L), and therefore represents a 'worst case' scenario. If we instead base the calculations on the reported average, median and 75th percentile ambient TSS concentrations of 23 mg/L, 13 mg/L and 22 mg/L, respectively, the downstream fully mixed TSS concentration in the receiver would increase by only 0.11 mg/L, 0.69 mg/L and 0.17 mg/L, respectively (assuming 'worst case' October dilution ratio of 17:1). This represents a negligible impact on TSS concentrations within the receiver.

At what distance downstream are "fully mixed" conditions achieved?

This information will be provided as part of the above-noted memorandum.

<u>TP</u>

The existing TP objective is 0.75 mg/L and the limit is 1.0 mg/L. This equates to an annual TP loading of 204.84 kg/year.

Because the South Nation River is considered a Policy 2 receiver for total phosphorous, Blue Sky have proposed to maintain the existing annual TP loading of 204.84 kg/year. This equates to an effluent limit of 0.23 mg/L and a design objective of 0.1 to 0.15 mg/L.

Please note that we have identified a design objective of 0.2 mg/L. Please confirm that a design objective of 0.2 mg/L can be used. Alternatively, can we use a design objective of 0.18 mg/L, which corresponds to 80% of the 0.23 mg/L limit?

The design objective is typically based on what the selected technology is designed to achieve. In a more general approach, the effluent objective is often 50% of the effluent limit.

Please note that the preferred design concept for the upgrades to the wastewater treatment system includes participation in SNC TPM program. However, should there be any issues with the TPM program and a specialized treatment system is determined to be required for the removal of TP, we would like to establish a feasible effluent design objective. An effluent objective of 50% of the TP limit is not consistent with ECAs for other similarly-sized facilities discharging to the South Nation River. For example (objectives/limits):

- Existing Plantagenet WWTS CofA (2004) 0.75 mg/L / 1 mg/L 75%
- Winchester WWTS (2023) 0.8 mg/L / 1 mg/L 80%
- Chesterville WWTS (2020) 0.75 mg/L / 1 mg/L 75%
- Casselman WWTS (2019) 0.8 mg/L / 1 mg/L 80%

We are requesting that the MECP consider imposing an objective of 0.17 mg/L, which represents 75% of the 0.23 mg/L limit, matching the ratio from the existing CofA.

I have no objections to this approach provided the preferred treatment technology is capable of treating down to this level.

Note that one of the alternative design concepts developed in Phase 3 of the Class EA includes maintaining the existing effluent TP concentration of 1 mg/L, and participating in the Total Phosphorous Offsetting program (in coordination with the South Nation Conservation Authority) to purchase offsetting credits for the additional projected annual effluent TP loadings beyond 204.8 kg. Information on the program was provided to us by Ronda Boutz from SNC. Could you provide us information on how this program is typically integrated into the ECA?

Victor Castro advised that the offset would be formalized in a condition in the ECA. The ECA will also include a condition requiring the Township to continue to pay into the program (to formalize the agreement).

Thank you for reviewing. As noted above, participation in the TPM program has been selected as part of the preferred design concept for the WWTS upgrades.

TAN

There is no effluent objective or limit for TAN in the current ECA.

Blue Sky have proposed effluent TAN limits by ensuring the effluent is non-toxic at end-of-pipe. Blue Sky used the ambient temperature data for the South Nation River and where data didn't exist or was limiting, assumed values of 4 °C in January and February and 6 °C in March. Effluent pH was assumed to be 8 for all months. Using these receiver quality values, and un-ionized ammonia concentrations < 0.2 mg/L, Blue Sky were able to back-calculate the proposed TAN effluent objectives and limits:

- January and February = 12 mg/L objective, 14 mg/L limit
- March = 10 mg/L objective, 12 mg/L limit
- April = 5 mg/L objective, 5.5 mg/L limit
- May = 3 mg/L objective, 3.5 mg/L limit
- October = 4.5 mg/L objective, 5 mg/L limit
- November = 7 mg/L objective, 7.5 mg/L limit

• December = 10 mg/L objective, 12 mg/L limit

If the average monthly pH values for the South Nation River are used in the analysis (some of which are greater than 8), then some of the proposed TAN concentrations could result in acutely toxic un-ionized ammonia values at the end of pipe (i.e. November, December). This is similarly the case if actual lagoon content temperature values are used (i.e. May 2019, lagoon temperature 18.9 °C, lagoon pH 8.5). TAN limits should be recalculated using the most conservative values available, whether those be the receiver or lagoon temperatures and pH values.

We have updated our analysis of effluent toxicity at end-of-pipe. Our revised approach is consistent with that used recently for another facility discharging to the South Nation River (Winchester WWTS).

Historical facility operating data were used to develop monthly 75th percentile effluent dissociation ratios for the Plantagenet WWTS. Daily dissociation ratios were calculated based on synoptic measurements of effluent temperature and pH. Data were available for the discharge months of April, May, November and December over the period 2016 to 2023. Discharge Scenario B (now the preferred solution following Phase 2 of the Class EA) includes expanding the effluent discharge period to include the months of October, and January to March. Estimated dissociation ratios were developed for these months by taking the most conservative 75th percentile effluent pH over the cool to cold weather period (corresponding to a pH of 7.8 in December), and assuming effluent temperatures of 13.5°C for October (corresponding to the 75th percentile temperature in the South Nation River in October), 3°C for Jan-Feb (based on effluent temperatures reached by the end of December), and 5°C for March (based on effluent temperatures reached by early to mid April).

The resulting dissociation ratios were determined to be:

- 0.66% (Jan-Feb)
- 0.78% (Mar)
- 0.60% (Apr)
- 6.26% (May)
- 1.51% (Oct)
- 0.43% (Nov)
- 0.64% (Dec)

Table 1 below presents the updated proposed monthly effluent TAN limits, resulting UIA at end-of-pipe, and fully-mixed downstream UIA concentration at both Phase 1 and Phase 2 ADFs.

Table 1 – Updated End-of-Pipe and Fully Mixed Un-ionized Ammonia Under Proposed Effluent TAN Limits and Effluent Discharge Rates

Discharge Period	Proposed Effluent	End-of-Pipe UIA	Fully Mixed UIA (ug/L as NH3)				
	TAN Limit	(mg/L as NH3)	Phase 1 ADF	Phase 2 ADF			
	(mg/L as N)		1,660 m3/d	2,411 m3/d			
Discharge Scenario A – Existing Discharge Periods							
Apr 1 to 30	5.5	0.04	5.2	5.2			
May 1 to 31	<mark>2.6</mark>	0.20	<mark>10.1</mark>	<mark>13.4</mark>			
Nov 1 to 30	7.5	0.04	7.6	11.6			
Dec 1 to 20	12	0.09	10.9	16.6			
Discharge Scenario B – Semi-Continuous Discharge							
Jan 1 to 31	14	0.11	12.2	18.8			
Feb 1 to 28	14	0.11	11.7	17.3			
Mar 1 to 31	12	0.10	8.1	11.5			
Apr 1 to 30	5.5	0.04	5.2	5.2			
May 1 to 31	<mark>2.6</mark>	0.20	<mark>10.1</mark>	<mark>13.4</mark>			
Oct 1 to 31	5.0	0.09	8.8	15.5			
Nov 1 to 30	7.5	0.04	7.6	11.6			
Dec 1 to 31	12	0.09	6.4	9.2			

Using this updated approach, the only change to the proposed effluent TAN limits was for May (decreasing from 3.5 mg/L to 2.6 mg/L). We are also proposing effluent objectives equivalent to 80% of

the proposed concentration limit (e.g. 2.1 mg/L TAN objective for May). Please confirm proposed approach is acceptable.

I have no objections to this approach. The effluent objectives should be based on what is technologically achievable or in the interim, 50% of the proposed effluent limit.

Similarly to the comments for TP, an effluent objective of 50% of the TAN limit is not consistent with ECAs for other similarly-sized facilities discharging to the South Nation River. For example:

- Winchester WWTS (2023) objective/limit ratio of 80% for all months
- Chesterville WWTS (2020) objective/limit ratio of above 80% for all months
- Casselman WWTS (2019) objective/limit ratio of 100% for all months

We are requesting that the MECP consider imposing the following design objectives, which correspond to 80% of the effluent limit:

Discharge Period	Proposed Effluent TAN Limit (mg/L as N)	Proposed Effluent TAN Objective (mg/L as N) (80% of Limit)
Jan 1 to 31	14	11.2
Feb 1 to 28	14	11.2
Mar 1 to 31	12	9.6
Apr 1 to 30	5.5	4.4
May 1 to 31	2.6	2.1
Oct 1 to 31	5.0	4.0
Nov 1 to 30	7.5	6.0
Dec 1 to 31	12	9.6

E.Coli

An effluent objective or limit does not currently exist in the ECA. Blue Sky have recommended implementing an effluent objective of 150 CFU/100 mL and limit of 200 CFU/100 mL. They suggest these values are consistent with other similar-sized municipal wastewater treatment systems in the Province.

I have no objections to the implementation of the proposed objective and limit. Compliance should be assessed via a monthly geometric mean.

We have updated our assessment of effluent E.Coli criteria. Our revised approach is consistent with that used recently for another facility discharging to the South Nation River (Winchester WWTS). We proposed to remove E.Coli criteria, based on the following:

- Existing ECA does not include an objective or limit for E.Coli.
- Recently amended ECA for Winchester WWTS did not include E.Coli effluent criteria.
- Receiver is Policy 1 for E.Coli.
- Proposed dilution ratios are relatively high.
- No effluent discharge is proposed during the more critical Summer period.
- Lagoon-based wastewater treatment systems have historically provided a level of natural disinfection.

I have no objections to this approach.

Noted.

Please review and let us know if you have any questions. Note that we intend to complete the Class EA in 2023. You should have received an invite to attend Public Information Centre No. 2, planned for November 6, 2023, as well as the final Phase 2 Report.

Thank you,

Nicolas Bialik, P.Eng. Environmental Engineer

J.L. Richards & Associates Limited 1000-343 Preston Street, Ottawa, ON K1S 1N4 Direct: 343-804-5346





From: Orpana, Jon (MECP) < <u>Jon.Orpana@ontario.ca</u>>

Sent: Thursday, July 27, 2023 4:18 PM

To: Jordan Morrissette < jmorrissette@jlrichards.ca >; Melody Johnson < melody@bskyeng.com >; JGendron@alfred-

plantagenet.com

Cc: Baxter, Sarah (She/Her) (MECP) < Sarah.Baxter@ontario.ca>

Subject: FW: Plantagenet WWTS - Phase 1 Report and ACS - SW Comments

[CAUTION] This email originated from outside JLR. Do not click links or open attachments unless you recognize the sender and know the content is safe. Do not forward suspicious emails, if you are unsure, please send a separate message to Helpdesk.

Hello Jordan and Melody,

Please find surface water review comments on the Plantagenet WWTS - Phase 1 Report and ACS

Any questions please do not hesitate to contact me or the reviewer - I would however if you reach out to Sarah directly please cc me on any correspondence for the file.

Regards,

Jon

Jon K. Orpana hear name
Regional Environmental Planner
Environmental Assessment Branch
Ministry of the Environment, Conservation and Parks
Kingston Regional Office
PO Box 22032, 1259 Gardiners Road
Kingston, Ontario
K7M 8S5

Phone: (613) 548-6918 Fax: (613) 548-6908

Email: jon.orpana@ontario.ca

From: Baxter, Sarah (She/Her) (MECP) <Sarah.Baxter@ontario.ca>

Sent: July 26, 2023 3:34 PM

To: Orpana, Jon (MECP) < Jon. Orpana@ontario.ca>

Cc: Castro, Victor (MECP) < Victor. Castro@ontario.ca>; Klein, Christina (She/Her) (MECP) < Christina. Klein@ontario.ca>

Subject: Plantagenet WWTS - Phase 1 Report and ACS - SW Comments

Hi Jon,

I have reviewed:

- "Plantagenet WWTP Assimilative Capacity Study Ambient Conditions and Proposed Approach" dated May 2, 2022 and prepared by Blue Sky Energy Engineering & Consulting;
- "Final Report, Assimilative Capacity Study to Support the Expansion of the Plantagenet WWTS" dated November 11, 2022 and prepared by Blue Sky Energy Engineering & Consulting;
- "Phase 1 Report, Plantagenet Wastewater Municipal Class Environmental Assessment" dated April 26, 2023 and prepared by J.L. Richards & Associates Limited; and,
- "Plantagenet ACS Response to Reviewer Comments" dated June 27, 2023 and prepared by Blue Sky Energy Engineering and Consulting.

The following comments, relative to surface water impact concerns, are provided for your consideration.

The Plantagenet Wastewater Treatment System (WWTS) services the town of Plantagenet within the Township of Alfred and Plantagenet. The system is owned by the Township and is operated by the Ontario Clean Water Agency (OCWA). The system was constructed in 1970 and consists of gravity sewers, two pumping stations, a single facultative lagoon, and a gravity outfall to the South Nation River. The system is regulated by Environmental Compliance Approval (ECA) #4631-5WXQE9 and has a rated capacity of 561 m³/d. The WWTS is only permitted to discharge seasonally from April 1 to May 31 and November 1 to December 20 each year and there are no maximum discharge rates stipulated in the ECA. The ECA includes effluent objectives and limits for carbonaceous biochemical oxygen demand (CBOD₅), total suspended solids (TSS), total phosphorous (TP), and pH.

Since 1988, the WWTS has been operating at or above the rated capacity of the works. As a result, effluent quality has not been consistently meeting its ECA limits, particularly for CBOD₅ and TSS. Because of these issues, along with other operational problems (i.e. algae, maintenance) and an expected increase in the Town's population in the next 10 to 20 years, the Township has initiated the Class EA process. In order to select the most suitable new/upgraded system, an assimilative capacity study (ACS) is necessary. The reviewed documents have been provided as a result.

The proposed ACS methodology was approved by the Ministry during a May 5, 2022 pre-submission consultation. The assessment incorporated 2000-2020 South Nation ambient water quality data from the Provincial Water Quality Monitoring Network (PWQMN) station 18207002002 and low flow data from the Water Survey of Canada (WSC) gauge 02LB005. Blue Sky applied increased wastewater

flows of 1660 m 3 /d (Phase 1 – 10 years) and 2411 m 3 /d (Phase 2 – 20 years). Two discharge scenarios were considered: the existing seasonal discharge windows (Scenario A) and an extended seasonal window of October 1 to May 31 (Scenario B). **Note:** the comments below only discuss Phase 2 wastewater flows as they would represent the ultimate build-out and the worst-case scenario on the receiver.

Effluent Flows

Table 4.1 of the reviewed ACS includes proposed effluent discharge rates based on average monthly 7Q20 flows. The associated dilution ratios are as follows:

- January, Scenario B = 32:1
- February, Scenario B = 29:1
- March, Scenario B = 43:1
- April, Scenario A/B = 78:1
- May, Scenario A/B = 30:1
- October, Scenario B = 17:1
- November, Scenario A/B = 30:1
- December, Scenario A = 31:1
- December, Scenario B = 66:1

Dilution ratios should be as large as possible. Months with the greatest $7Q_{20}$ flows (i.e. March, April, May, November, December) should be taken advantage of when selecting the discharge window and release rates should be apportioned to the long-term average $7Q_{20}$ hydrograph.

The flows (and dilution ratio) for October appear to be too low to effectively assimilate the WWTS's effluent; this month should not be considered as part of Scenario B.

More detail should be provided for discharge scenarios when flows are less than the average monthly $7Q_{20}$ flows (e.g. reduced discharge rate, no discharge).

CBOD₅

The existing CBOD₅ objective is 15 mg/L and the limit is 25 mg/L.

Blue Sky is proposing an effluent objective of 15 mg/L and a reduced effluent limit of 20 mg/L. These values were developed via dissolved oxygen modelling using EPA's WASP8 program. At the 20 mg/L effluent limit, during low flow conditions in the South Nation River, and discharging at the maximum design limit, CBOD₅ could increase up to 1.14 mg/L one kilometer downstream of the discharge point. This would coincide with reductions in dissolved oxygen (DO) of 0.05 mg/L (May) to 0.16 mg/L (October) approximately 2.7 kilometers downstream of the WWTP; even with these reductions in DO, the PWQO is still achieved.

I have no objections to the proposed CBOD₅ effluent objective and limit.

TSS

The existing TSS objective is 20 mg/L and the limit is 25 mg/L.

Blue Sky have proposed to maintain the existing objective and limit. They indicate the proposed limit would result in a maximum downstream increase of 1.43 mg/L, which meets the long-term Canadian Water Quality Guideline (CWQG) of +5 mg/L.

I recommend that the objective and limit be reduced to 15 mg/L and 20 mg/L, respectively. Although the discharge quality does meet the long-term CWQG, the existing concentrations of TSS in the river are already elevated and loadings to the South Nation River will dramatically increase with the proposed increase in effluent flows.

TP

The existing TP objective is 0.75 mg/L and the limit is 1.0 mg/L. This equates to an annual TP loading of 204.84 kg/year.

Because the South Nation River is considered a Policy 2 receiver for total phosphorous, Blue Sky have proposed to maintain the existing annual TP loading of 204.84 kg/year. This equates to an effluent limit of 0.23 mg/L and a design objective of 0.1 to 0.15 mg/L.

I have no objections to this approach provided the preferred treatment technology is capable of treating down to this level.

TAN

There is no effluent objective or limit for TAN in the current ECA.

Blue Sky have proposed effluent TAN limits by ensuring the effluent is non-toxic at end-of-pipe. Blue Sky used the ambient temperature data for the South Nation River and where data didn't exist or was limiting, assumed values of 4 °C in January and February and 6 °C in March. Effluent pH was assumed to be 8 for all months. Using these receiver quality values, and un-ionized ammonia concentrations < 0.2 mg/L, Blue Sky were able to back-calculate the proposed TAN effluent objectives and limits:

- January and February = 12 mg/L objective, 14 mg/L limit
- March = 10 mg/L objective, 12 mg/L limit
- April = 5 mg/L objective, 5.5 mg/L limit
- May = 3 mg/L objective, 3.5 mg/L limit
- October = 4.5 mg/L objective, 5 mg/L limit
- November = 7 mg/L objective, 7.5 mg/L limit
- December = 10 mg/L objective, 12 mg/L limit

If the average monthly pH values for the South Nation River are used in the analysis (some of which are greater than 8), then some of the proposed TAN concentrations could result in acutely toxic unionized ammonia values at the end of pipe (i.e. November, December). This is similarly the case if actual lagoon content temperature values are used (i.e. May 2019, lagoon temperature 18.9 °C, lagoon pH 8.5). TAN limits should be recalculated using the most conservative values available, whether those be the receiver or lagoon temperatures and pH values.

E.Coli

An effluent objective or limit does not currently exist in the ECA. Blue Sky have recommended implementing an effluent objective of 150 CFU/100 mL and limit of 200 CFU/100 mL. They suggest

these values are consistent with other similar-sized municipal wastewater treatment systems in the Province.

I have no objections to the implementation of the proposed objective and limit. Compliance should be assessed via a monthly geometric mean.

<u>рН</u>

The existing pH effluent objective is 6.5-9.0 and the limit is 6.0-9.5. Compliance is assessed per single sample. Blue Sky recommends keeping this same limit and objective when the WWTS is expanded.

I have no objections to maintaining the existing compliance values for pH.

General

Compliance for the above parameters should be based no monthly averages, except for E.Coli and pH as mentioned above.

Please let me know if you have any questions or concerns regarding the above comments, and please forward this email along to J.L. Richards and Blue Sky for comment.

Sarah Baxter

Surface Water Specialist
Technical Support Section – Eastern Region
Ministry of the Environment, Conservation and Parks
1259 Gardiners Road, Unit 3, Kingston ON, K7P 3J6
E: sarah.baxter@ontario.ca

From: Melody Johnson <melody@bskyeng.com>

Sent: June 27, 2023 12:13 PM

To: Baxter, Sarah (She/Her) (MECP) <Sarah.Baxter@ontario.ca>

Cc: Jordan Morrissette < <u>imorrissette@jlrichards.ca</u>>; Castro, Victor (MECP) < <u>Victor.Castro@ontario.ca</u>>; Orpana, Jon

(MECP) <Jon.Orpana@ontario.ca>; Michael Hulley <Michael.Hulley@bskyeng.com>; Nicolas Bialik

<nbialik@ilrichards.ca>

Subject: RE: Task for Plantagenet WWTP

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

Hi Sarah,

Thank you for your email. We have prepared a memorandum (attached) that provides responses to your questions (below).

Let me know if you have any other questions / concerns, and/or if you would like to schedule a call to discuss these or any other questions you may have.

Thanks,

Melody Johnson, PhD, P.Eng., Senior Consultant

melody@bskyeng.com | www.bskyeng.com | M. 647.721.7644

BLUE SKY Energy Engineering & Consulting Inc.

EXPERTISE | BEST PRACTICES | CREATIVE THINKING

From: Baxter, Sarah (MECP) <Sarah.Baxter@ontario.ca>

Sent: June 9, 2023 9:26 AM

To: Melody Johnson <melody@bskyeng.com>

Cc: Jordan Morrissette
ontario.ca>; Orpana, Jon

(MECP) < <u>Jon.Orpana@ontario.ca</u>> **Subject:** RE: Task for Plantagenet WWTP

Good morning Melody,

I am currently working through the details of the assimilative capacity study Blue Sky prepared for the Plantagenet Lagoon.

I have a few questions about the modelling undertaken. And please excuse my ignorance, this type of modelling is not my specialty.

- 1. Why was the model only run for May and October, when low flows (i.e. lower than May) are also present in November, January, February and March?
- 2. The modelling report (and ACS) indicate concentrations of the subject parameters will be increased downstream of the outfall. For all parameters, is this distance 2.7 kilometers downstream as mentioned in the modelling report? If so, would the mixing zone be interpreted to be this large?

I look forward to receiving your response, and I'll reach out with any other questions as they arise.

Take care,

Sarah Baxter

Surface Water Specialist Technical Support Section – Eastern Region Ministry of the Environment, Conservation and Parks 1259 Gardiners Road, Unit 3, Kingston ON, K7P 3J6

E: sarah.baxter@ontario.ca

From: Jordan Morrissette < imorrissette@jlrichards.ca >

Sent: June 7, 2023 1:53 PM

To: Baxter, Sarah (MECP) < <u>Sarah.Baxter@ontario.ca</u>>; Orpana, Jon (MECP) < <u>Jon.Orpana@ontario.ca</u>>

Cc: JGendron@alfred-plantagenet.com; Castro, Victor (MECP) < Victor.Castro@ontario.ca >

Subject: RE: Task for Plantagenet WWTP

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

I'm using Mimecast to share large files with you. Please see the attached instructions.

Hi Jon and Sarah,

Please find attached copy of Phase 1 Report and Appendix E for the Plantagenet WWTS Class EA.

Please let me know if you have any issues opening the files.

Regards, Jordan

Jordan Morrissette, P.Eng., M.Eng. Associate Senior Environmental Engineer

J.L. Richards & Associates Limited 1000-343 Preston Street, Ottawa, ON K1S 1N4 Direct: 343-804-5379





Memorandum



To: Sarah Baxter, Surface Water Specialist, MECP

CC: Victor Castro, MECP

Jon Orpana, MECP Jordan Morrissette, JLR

From: Melody Johnson, PhD, P.Eng.

Michael Hulley, PhD, P.Eng.

Date: November 30, 2023

Subject: Plantagenet ACS – Response to Reviewer Comments

An assimilative capacity study (ACS) was prepared by Blue Sky Energy Engineering & Consulting Inc. (Blue Sky) to support the expansion of the Plantagenet Wastewater Treatment System (WWTS).

Comments from the Ministry of the Environment, Conservation and Parks (MECP) were received by email on June 9, 2023, and a response provided in a memorandum dated June 27, 2023.

Subsequent email correspondence with MECP addressed additional follow-up comments and questions. In an email from Sarah Baxter, dated November 20, 2023, there were several comments that related to mixing zone length and characteristics. To address these comments, it was necessary to conduct CORMIX modelling. The purpose of this memorandum is to provide details regarding the CORMIX modelling completed to support the Plantagenet ACS, as well as to summarize the related questions asked by MECP and our responses.

As noted above, two comments were provided by MECP via email on November 20, 2023 that relate to mixing zone length and characteristics, namely:

Comment 1: I should not have stated that October should not be considered. I should have said that the lower dilution ration of 17:1 could be considered if additional work (i.e. mixing zone modeling) is completed and demonstrates that the mixing zone is small and it doesn't interfere with other river beneficial uses. (Comment provided in relation to including October as part of the discharge window for Scenario B)

Comment 2: At what distance downstream are "fully mixed" conditions achieved? (Asked in relation to the proposed TSS objective of 20 mg/L and limit of 25 mg/L)

To respond to these comments, it was necessary to conduct CORMIX modelling to define mixing zone characteristics for the month of October, as well as define the distance downstream of the outfall at which "fully mixed" conditions are achieved for all months.

Memorandum: Plantagenet WWTS – ACS Review Comments

November 30, 2023

Model Configuration

The CORMIX expert system was applied to provide insight into the mixing zone characteristics. A single port discharge, located approximately center channel, was modeled. Under low-flow conditions at the discharge point, ambient velocity and depth are relatively low and, in most cases, the single port discharge velocity is much greater than ambient. The outfall configuration and receiver characteristics (shallow low-flow, low-velocity receiver combined with relatively high discharge velocity aimed directly at the opposite bank) is not addressed well with CORMIX. As such, the model-predicted near-field results were unstable. CORMIX predicts near immediate right bank plume attachment. Despite more pronounced uncertainty with respect to the near-field mixing zone model results, there is more confidence in the far-field results.

Modelling Results

Details of the individual modelling runs are included in Attachment 1. Key results are presented and discussed below.

Table 1 presents a summary of the CORMIX-predicted downstream distance to fully-mixed conditions for each month and discharge scenario.

Table 1 – CORMIX Predicted Downstream Distance to Fully-Mixed Conditions

Month	Scenario A – Existir	ng Discharge Periods	Scenario B – Semi-Continuous Discharge		
	Phase 1 ADF	Phase 2 ADF	Phase 1 ADF	Phase 2 ADF	
October	n/a	n/a	500 m	150 m	
November	500 m	350 m	500 m	350 m	
December (1)	450 m	140 m	450 m	120 m	
January	n/a	n/a	450 m	120 m	
February	n/a	n/a	450 m	120 m	
March	n/a	n/a	450 m	120 m	
April	500 m	500 m	500 m	500 m	
May	500 m	130 m	130 m	130 m	

Notes:

n/a – not applicable. No effluent discharge during that month for that discharge scenario. Receiver 7Q20 flows and maximum effluent discharge volumes based on those presented in the ACS Report dated November 11, 2022.

1. December discharge window spans Dec 1 to 20 for Scenario A, and Dec 1 to 31 for Scenario B.

For both Scenario A and B, completely mixed conditions are achieved at a downstream distance of over 120 m, and in most cases at approximately 500 m. Since CORMIX assumes a uniform channel for area cross-section and velocity, these results should be interpreted as a conservative estimation of the required distance for completely mixed conditions. Actual river conditions,

particularly during low-flow, includes pool-riffle flow with variable velocity, depth, and width. As such, actual in-stream mixing is certainly greater and completely mixed conditions would be achieved at distances less than 500 m. Definitive delineation of the actual mixing zone would require field dye studies under low or near low-flow, or a more physically-based numerical model that addresses stream morphology.

Figures 1 and 2 present the Scenario B October concentration excess vs. downstream distance for Phase 1 and 2 ADFs, respectively.

October results for Scenario B indicate that the distance required to achieve 20:1 dilution is greater for Phase 1 than for Phase 2 (210 m versus 90 m). The reason for this difference is the large increase in effluent flow relative to the ambient low-flow for Phase 2. Increasing the effluent flow from 2,200 m³/d to 4,500 m³/d increases near-field mixing and actually reduces the distance required to achieve completely mixed conditions. Importantly, the dilution ratio at completely mixed conditions is 16.5:1 for the higher (Phase 2) flow, compared to 34:1 for the Phase 1 case. This is much less pronounced for other months, largely because ambient low-flow is at least 3x greater than October.

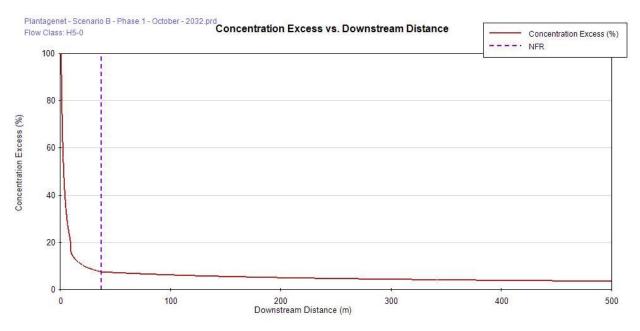


Figure 1 — Scenario B — October Discharge at Phase 1 ADF — CORMIX Predicted Concentration Excess vs. Downstream Distance

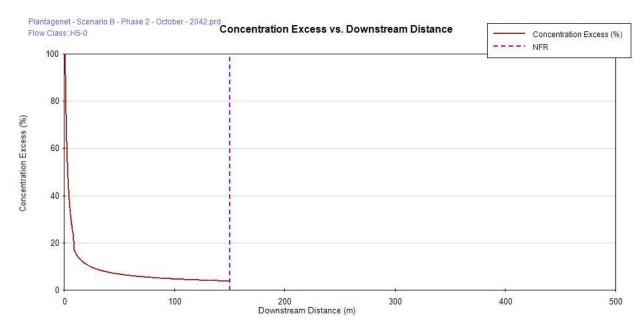


Figure 2 — Scenario B — October Discharge at Phase 2 ADF — CORMIX Predicted Concentration Excess vs. Downstream Distance

Response to MECP Comments

Using the above results, the following responses can be provided to MECP's comments:

Comment 1: I should not have stated that October should not be considered. I should have said that the lower dilution ration of 17:1 could be considered if additional work (i.e. mixing zone modeling) is completed and demonstrates that the mixing zone is small and it doesn't interfere with other river beneficial uses.

Response: As noted above, the outfall configuration and receiver characteristics (shallow low-flow, low-velocity receiver combined with relatively high discharge velocity aimed directly at the opposite bank) is a configuration that is not addressed well with CORMIX. As such, the model-predicted near-field results were unstable. CORMIX predicts near immediate right bank plume attachment and achieving 20:1 dilution by 210 m for Phase 1 ADF and 90 m for Phase 2; however, there are limitations with respect to the accuracy of these predictions as noted. In addition, the longer distance to 20:1 dilution (210 m) was associated with a higher dilution ratio (34:1) than the smaller distance (90 m) associated with a lower dilution ratio (17:1). As noted above, this is because increasing the effluent flow from 2,200 m³/d to 4,500 m³/d increases near-field mixing and actually reduces the distance required to achieve completely mixed conditions.

Despite uncertainty with respect to the near-field mixing zone results, there is more confidence in the far-field results. Under Phase 1 and Phase 2 flows, CORMIX predicts fully-mixed conditions in October will be achieved within 500 m and 150 m, respectively, which is consistent with the range of fully-mixed distances for other discharge months.

Comment 2: At what distance downstream are "fully mixed" conditions achieved?

Response: At Phase 1 (2032) discharge flow rates, "fully mixed" conditions are achieved within 500 m or less for all months under discharge Scenarios A and B (see Table 1). Similarly, at Phase 2 (2042) discharge flow rates, "fully mixed" conditions are achieved within 500 m or less for all months under discharge Scenarios A and B (see Table 1). As noted above, actual in-stream mixing is certainly greater than that predicted by CORMIX, and therefore completely mixed conditions would be achieved at distances less than 500 m.

We trust that the above provides you with the information you require at this time. Should you have any questions or concerns, please do not hesitate to contact Melody Johnson at melody@bskyeng.com or 647-721-7644.

Attachment A Detailed CORMIX Modelling Results

A summary of CORMIX modelling results is presented in tabular format in Table A.1. Details regarding each model run are provided on the following pages.

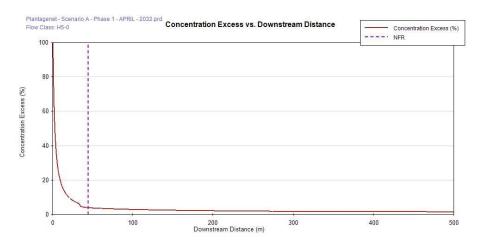
Table A.1 – CORMIX Results Summary

Scenario	Phase	Month	ADF (m³/d)	7Q20 (m³/s)	5% Dilution Achieved (20:1) (m)	Completely Mixed Achieved (m)	Final Dilution Ratio
	1	April	16,000	14.5	35	500	78 : 1
		May	8,500	5.29	41	500	65 : 1
	1	November	6,500	3.74	55	500	53:1
^		December	9,500	5.78	35	450	53:1
А		April	16,000	14.5	35	500	78 : 1
	2	May	15,100	5.29	46	130	30:1
	2	November	10,800	3.74	20	350	30:1
		December	16,000	5.78	20	140	31:1
		October	2,200	0.861	210	500	34:1
		November	6,100	3.74	54	500	53:1
	1	Dec-Mar	4,500	2.58	52	450	50:1
		April	16,000	14.5	35	500	78 : 1
В		May	8,500	5.29	46	130	30:1
В	2	October	4,500	0.861	90	150	16.5 : 1
		November	10,800	3.74	20	350	30:1
		Dec-Mar	7,600	2.58	50	120	29:1
		April	16,000	14.5	35	500	78 : 1
		May	15,100	5.29	46	130	30 : 1

Scenario A - Phase 1 - 2032 Flows

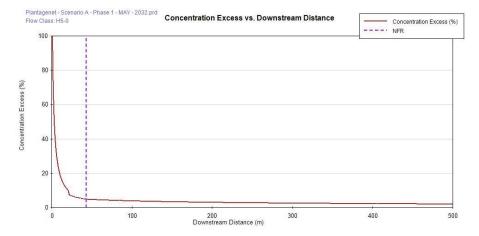
April

- WWTP ADF = $16,000 \text{ m}^3/\text{d}$ (0.185 m³/s) and river 7Q20 = $14.5 \text{ m}^3/\text{s}$.
- Assumed depth = 3 m, width = 80 m.
- Neutrally buoyant plume assumed.
- Unstable near field, near immediate right bank plume attachment.
- Completely mixed conditions achieved with 500 m of discharge.



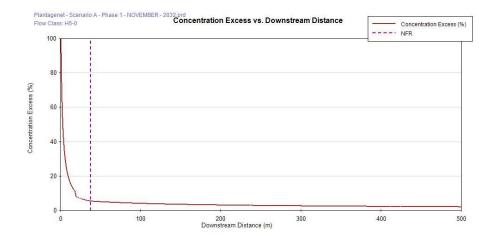
May

- WWTP ADF = $8,500 \text{ m}^3/\text{d}$ (0.0984 m³/s) and river 7Q20 = $5.29 \text{ m}^3/\text{s}$.
- Assumed depth = 2 m, width = 70 m.
- Neutrally buoyant plume assumed.
- Unstable near field, near immediate right bank plume attachment.
- Completely mixed conditions achieved with 500 m of discharge.



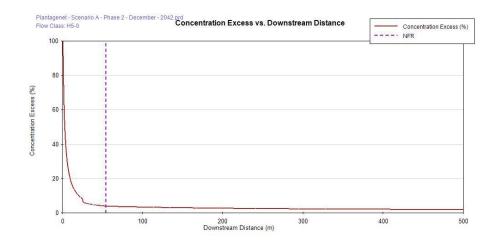
November

- WWTP ADF = $6,100 \text{ m}^3/\text{d}$ (0.0706 m³/s) and river 7Q20 = $3.74 \text{ m}^3/\text{s}$.
- Assumed depth = 1.8 m, width = 68 m.
- Neutrally buoyant plume assumed.
- Unstable near field, near immediate right bank plume attachment.
- Completely mixed conditions achieved with 500 m of discharge.



December

- WWTP ADF = $9,500 \text{ m}^3/\text{d} (0.110 \text{ m}^3/\text{s})$ and river $7Q20 = 5.78 \text{ m}^3/\text{s}$.
- Assumed depth = 2.4 m, width = 70 m.
- Neutrally buoyant plume assumed.
- Unstable near field, near immediate right bank plume attachment.
- Completely mixed conditions achieved with 450 m of discharge.



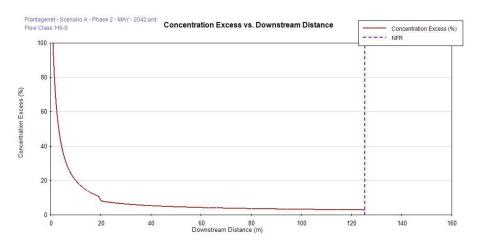
Scenario A - Phase 2 - 2042 Flows

April

Same as Scenario A, Phase 1

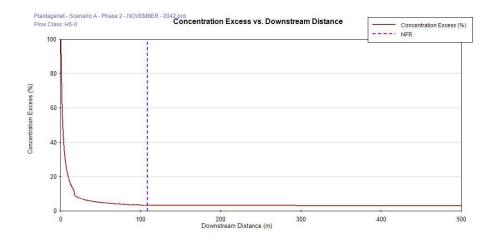
May

- WWTP ADF = $15,100 \text{ m}^3/\text{d}$ (0.175 m³/s) and river 7Q20 = $5.29 \text{ m}^3/\text{s}$.
- Assumed depth = 2 m, width = 70 m.
- Neutrally buoyant plume assumed.
- Unstable near field, near immediate right bank plume attachment.
- Completely mixed conditions achieved with 130 m of discharge.



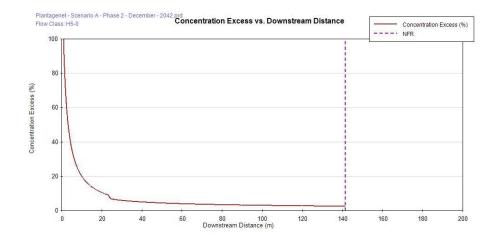
November

- WWTP ADF = $10,800 \text{ m}^3/\text{d}$ (0.125 m³/s) and river 7Q20 = $3.74 \text{ m}^3/\text{s}$.
- Assumed depth = 1.8 m, width = 68 m.
- Neutrally buoyant plume assumed.
- Unstable near field, near immediate right bank plume attachment.
- Completely mixed conditions achieved with 350 m of discharge.



December

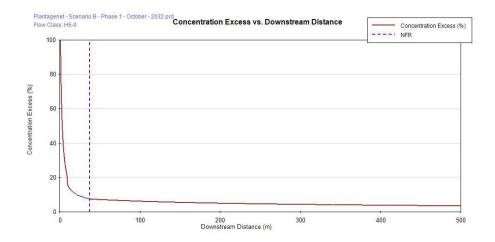
- WWTP ADF = $16,000 \text{ m}^3/\text{d}$ (0.185 m³/s) and river 7Q20 = $5.78 \text{ m}^3/\text{s}$.
- Assumed depth = 2.4 m, width = 70 m.
- Neutrally buoyant plume assumed.
- Unstable near field, near immediate right bank plume attachment.
- Completely mixed conditions achieved with 140 m of discharge



Scenario B - Phase 1 - 2032 Flows

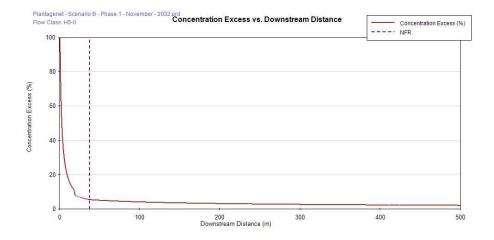
October

- WWTP ADF = $2,200 \text{ m}^3/\text{d}$ (0.0255 m³/s) and river $7Q20 = 0.861 \text{ m}^3/\text{s}$.
- Assumed depth = 1 m, width = 60 m.
- Neutrally buoyant plume assumed.
- Unstable near field, near immediate right bank plume attachment.
- Completely mixed conditions achieved with 500 m of discharge.



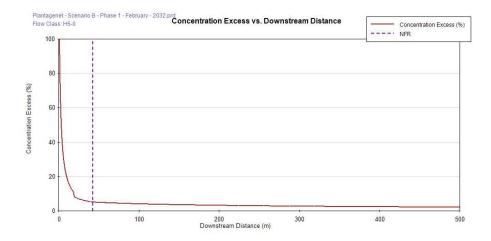
November

- WWTP ADF = $6,100 \text{ m}^3/\text{d}$ (0.0706 m³/s) and river 7Q20 = $3.74 \text{ m}^3/\text{s}$.
- Assumed depth = 1.8 m, width = 68 m.
- Neutrally buoyant plume assumed.
- Unstable near field, near immediate right bank plume attachment.
- Completely mixed conditions achieved with 500 m of discharge.



December – March

- WWTP ADF = $4,500 \text{ m}^3/\text{d} (0.052 \text{ m}^3/\text{s})$ and river $7Q20 = 2.58 \text{ m}^3/\text{s}$ (February).
- Assumed depth = 1.8 m, width = 68 m.
- Neutrally buoyant plume assumed.
- Unstable near field, near immediate right bank plume attachment.
- Completely mixed conditions achieved with 450 m of discharge.



April

• Same as Scenario A, Phase 1

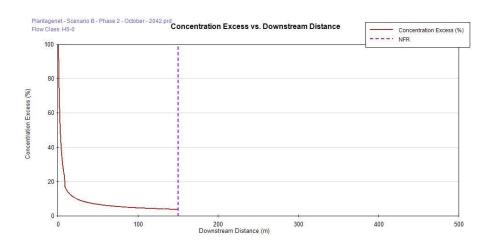
May

Same as Scenario A, Phase 1

Scenario B - Phase 2 - 2042 Flows

October

- WWTP ADF = $4,500 \text{ m}^3/\text{d} (0.0255 \text{ m}^3/\text{s})$ and river $7Q20 = 0.861 \text{ m}^3/\text{s}$.
- Assumed depth = 1 m, width = 60 m.
- Neutrally buoyant plume assumed.
- Unstable near field, near immediate right bank plume attachment.
- Completely mixed conditions achieved with 150 m of discharge.

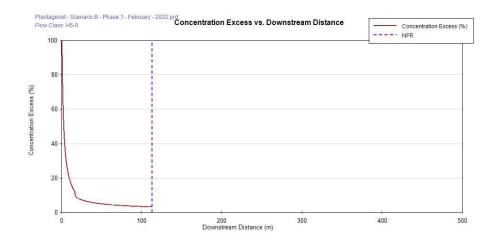


November

Same as Scenario A, Phase 2

December – March

- WWTP ADF = $7,600 \text{ m}^3/\text{d} (0.088 \text{ m}^3/\text{s})$ and river $7Q20 = 2.58 \text{ m}^3/\text{s}$ (February).
- Assumed depth = 1.8 m, width = 68 m.
- Neutrally buoyant plume assumed.
- Unstable near field, near immediate right bank plume attachment.
- Completely mixed conditions achieved with 120 m of discharge.



Memorandum: Plantagenet WWTS – ACS Review Comments November 30, 2023

Attachment A

April

• Same as Scenario A, Phase 1

May

• Same as Scenario A, Phase 2

Memorandum



To: Sarah Baxter, Surface Water Specialist, MECP

CC: Victor Castro, MECP

Jon Orpana, MECP Jordan Morrissette, JLR

From: Melody Johnson, PhD, P.Eng.

Michael Hulley, PhD, P.Eng.

Date: June 27, 2023

Subject: Plantagenet ACS – Response to Reviewer Comments

An assimilative capacity study (ACS) was prepared by Blue Sky Energy Engineering & Consulting Inc. (Blue Sky) to support the expansion of the Plantagenet Wastewater Treatment System (WWTS).

Comments from the Ministry of the Environment, Conservation and Parks (MECP) were received by email on June 9, 2023. The questions asked, and our associated responses, are summarized below.

Question 1. Why was the model only run for May and October, when low flows (i.e. lower than May) are also present in November, January, February and March?

Response:

As noted in Appendix C of the ACS report, "preliminary model runs indicated that October and May discharge periods provided the greatest potential water quality impacts." It should be noted that this refers to the WASP8 modelling, which was used to assess the impact of the effluent discharge on downstream dissolved oxygen (DO) concentrations only. As such, the model considers plant growth and re-aeration rates, which are functions of temperature.

May and October were identified as being the most critical with respect to downstream DO impacts due to: relative low dilution ratios based on the proposed effluent discharge rates; and, in-stream temperatures which affect the solubility of DO as well as biological activity and associated oxygen uptake. A summary of these key factors for each of the discharge months is provided in Table 1 below.

June 27, 2023

Table 1 – Stream Flow, Temperature and Dilution Rates by Discharge Month

Month	WSC Station 02LB005 7Q20 Flow (m³/s)	Phase 2 AFD - Proposed Maximum Effluent Discharge Rate (m³/d)	Dilution Ratio	75 th Percentile Temperature (°C)
January	2.78	7600	32:1	<3
February	2.58	7600	29:1	<3
March	3.79	7600	43:1	<6
April	14.5	16000	78:1	11.6
May	5.29	15100	30:1	18.1
October	0.861	4500	17:1	13.5
November	3.74	10800	30:1	7.6
December	5.78	7600	66:1	2.3

To illustrate, the preliminary WASP8 model run for the month of February is shown in Figure 1 below. As can be seen, the maximum DO deficit is approximately 0.022 mg/L at a distance of approximately 1 km from the outfall. This is significantly less than the maximum modelled deficits for the months of May and October of 0.05 mg/L and 0.16 mg/L, respectively. In the absence of cBOD load there is no significant DO deficit and both the gray and blue plot lines are approximately coincident.

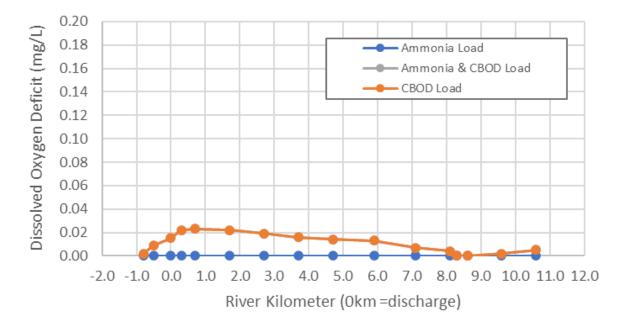


Figure 1 - WASP Modelling Results - February - Scenario B, Phase 2

Memorandum: Plantagenet WWTS – ACS Review Comments

June 27, 2023

Question 2: The modelling report (and ACS) indicate concentrations of the subject parameters will be increased downstream of the outfall. For all parameters, is this distance 2.7 kilometers downstream as mentioned in the modelling report? If so, would the mixing zone be interpreted to be this large?

Response:

As noted in response to Question 1, the model used as part of the ACS was WASP8, and was intended to assess the impact of the effluent discharge on downstream dissolved oxygen (DO) concentrations rather than to define the anticipated mixing zone. The model utilized the same discretization as the HEC-RAS model; as a result, mixing zone delineation is not straightforward.

As noted in Section 4.1 of the ACS report, it was confirmed during and subsequent to a May 5, 2022 meeting with MECP that modelling (using WASP8) would be used to assess downstream impacts on DO. The need for mixing zone modelling was not identified at that time. For UIA, a mass-balance approach was approved to ensure fully-mixed concentrations remain below the PWQO under all discharge scenarios. For TP, a loading limit was defined (204.8 kg/y) and approved by MECP.

A mixing zone cannot be delineated for cBOD since there is no PWQO for this parameter; however, the WASP8 model was used to assess the impact of cBOD (and ammonia) on downstream DO. When comparing the maximum reductions in ambient DO (0.16 mg/L in October and 0.05 mg/L in May) to the ambient (25th percentile) DO for these months (8.2 mg/L and 8.9 mg/L, respectively), it can be concluded that DO will remain above the PWQO of 5 mg/L throughout the effluent plume.

A mixing zone cannot be delineated for TSS since there is no PWQO for this parameter. The proposed effluent TSS limit (25 mg/L) meets CWQG maximum short-term (<24 h period) increase of 25 mg/L above background, even at the discharge from the outfall. Downstream fully-mixed TSS would increase by no more than 1.43 mg/L, which is below the CWQG chronic maximum value of 5 mg/L.

Because the receiver is Policy 2 for TP, it is not possible to define a downstream distance at which the TP concentration will meet the PWQO. However, as per the agreed-to approach, the effluent discharge rates were developed to cap fully-mixed concentration increases to be no more than 5% above ambient concentrations under all discharge scenarios (Table 4.2 in the ACS report).

Finally, the downstream distance at which the UIA concentration will meet the PWQO was not defined. The analysis did, however, consider non-toxicity at end-of-pipe, and ensuring fully-mixed UIA concentrations remain below the PWQO under all discharge scenarios.

June 27, 2023

We trust that the above provides you with the information you require at this time. Should you have any questions or concerns, please do not hesitate to contact Melody Johnson at melody@bskyeng.com or 647-721-7644.

From: Nicolas Bialik

Sent: Wednesday, June 8, 2022 9:22 AM

To: Sarah.Baxter@ontario.ca

Cc: Victor.Castro@ontario.ca; Jon.Orpana@ontario.ca; Jean-Francois.Durocher@ontario.ca;

Jordan Morrissette

Subject: JLR No. 31457 - Twp. Alfred & Plantagenet - Plantagenet Wastewater Schedule C MEA

Large File Send

Sent Files

Powered by **mimecast**

You shared files with <u>Sarah.Baxter@ontario.ca</u> <u>Victor.Castro@ontario.ca</u> <u>Jon.Orpana@ontario.ca</u> <u>Jean-Francois.Durocher@ontario.ca</u> <u>jmorrissette@jlrichards.ca</u>.

File(s):

ESR 1998.pdf

Hi Sarah,

Please find attached 1998 ESR for your review.

Thanks,

From: Nicolas Bialik

Sent: Wednesday, June 22, 2022 9:15 AM

To: Baxter, Sarah (MECP)

Cc: Castro, Victor (MECP); Orpana, Jon (MECP); Durocher, Jean-Francois (MECP); Jordan

Morrissette; Melody Johnson; JGendron@alfred-plantagenet.com

Subject: RE: JLR No. 31457-000 - Twp. Alfred & Plantagenet - Plantagenet Wastewater Schedule

C MEA

Hi Sarah,

Sorry for the delay in answering. We are proceeding with 204.8 kg/year as the TP loading.

As for why the lagoon was never expanded following the 1998 study: although the current Township staff was not around at that time, it was noted that it was highly likely due to lack of funding and historically low development pressures.

Let us know if you have any further questions.

Thanks,

From: Baxter, Sarah (MECP) <Sarah.Baxter@ontario.ca>

Sent: Friday, June 10, 2022 10:01 AM **To:** Nicolas Bialik <nbialik@jlrichards.ca>

Cc: Castro, Victor (MECP) <Victor.Castro@ontario.ca>; Orpana, Jon (MECP) <Jon.Orpana@ontario.ca>; Durocher, Jean-Francois (MECP) <Jean-Francois.Durocher@ontario.ca>; Jordan Morrissette <jmorrissette@jlrichards.ca>; Melody Johnson <melody@bskyeng.com>; JGendron@alfred-plantagenet.com

Subject: RE: JLR No. 27623-013 - Twp. Alfred & Plantagenet - Plantagenet Wastewater Schedule C MEA

Good morning Nicolas,

Thanks again for providing the 2008 study for my review. I also appreciate your patience on this matter.

This morning I sat down with Victor and discussed the allowable annual TP loading for future upgrades to the Plantagenet Lagoon. The current rated capacity of the lagoon is 561 m³/d and the TP limit is 1.0 mg/L – this equates to 204.8 kg/yr:

• 561 m³/d @ 1.0 mg/L TP = 561,000 L/d * 1.0 mg/L = 561,000 mg/d * 365 d/yr = 204,765,000 mg/yr = 204.765 kg/yr

I hope this math makes sense. Please use 204.8 kg/yr as the allowable TP loading from the system. Also keep in mind that it is possible to increase this loading if the client is willing to pay into the South Nation River TPM Program.

As an aside question – why was the lagoon never expanded as proposed in the 2008 study?

Sarah Baxter

Surface Water Specialist Technical Support Section – Eastern Region Ministry of the Environment, Conservation and Parks 1259 Gardiners Road, Unit 3, Kingston ON, K7P 3J6

E: sarah.baxter@ontario.ca

From: Nicolas Bialik <nbialik@jlrichards.ca>

Sent: June 8, 2022 9:17 AM

To: Baxter, Sarah (MECP) < <u>Sarah.Baxter@ontario.ca</u>>

 $\textbf{Cc:} \ Castro, \ Victor \ (MECP) < \underline{Victor.Castro@ontario.ca} >; \ Orpana, \ Jon \ (MECP) < \underline{Jon.Orpana@ontario.ca} >; \ Durocher, \ Jean-Francois \ (MECP) < \underline{Jean-Francois.Durocher@ontario.ca} >; \ Jordan \ Morrissette < \underline{jmorrissette@jlrichards.ca} >; \ Melody$

Johnson <melody@bskyeng.com>; JGendron@alfred-plantagenet.com

Subject: RE: JLR No. 27623-013 - Twp. Alfred & Plantagenet - Plantagenet Wastewater Schedule C MEA

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

Hi Sarah,

Thanks for the response. I will provide you with the 1998 Class EA through a separate large file transfer email. As for the second item, your confirmation that the presented study approach is acceptable is sufficient. We will therefore proceed the presented approach and wait on confirmation from you for the TP loading.

Thanks,

Nicolas Bialik

Environmental Engineering Intern

J.L. Richards & Associates Limited 700 - 1565 Carling Avenue, Ottawa, ON K1Z 8R1 Direct: 343-804-5346





From: Baxter, Sarah (MECP) < Sarah.Baxter@ontario.ca>

Sent: Tuesday, June 7, 2022 1:13 PM **To:** Nicolas Bialik < nbialik@jlrichards.ca>

Cc: Castro, Victor (MECP) < Victor.Castro@ontario.ca>; Orpana, Jon (MECP) < Jon.Orpana@ontario.ca>; Durocher, Jean-

Francois (MECP) < Jean-Francois.Durocher@ontario.ca>

Subject: RE: JLR No. 27623-013 - Twp. Alfred & Plantagenet - Plantagenet Wastewater Schedule C MEA

Good afternoon Nicholas,

I apologize for the delay in responding, but I have been trying to track down a copy of the 1998 Class EA study without luck. Could you please provide an electronic copy for my review, and then I can respond regarding the TP loading question. I would just like to read through the study to see how that value was initially developed/decided upon.

For question two, I'm not sure what is being asked. It is my understanding that JLR and their subconsultant were going to carry out the assimilative capacity study described to the Ministry on May 5th and new discharge criteria would be developed based on the results. Victor nor I have any objections to the presented study approach.

Sarah Baxter

Surface Water Specialist Technical Support Section - Eastern Region Ministry of the Environment, Conservation and Parks 1259 Gardiners Road, Unit 3, Kingston ON, K7P 3J6

E: sarah.baxter@ontario.ca

From: Nicolas Bialik <nbialik@jlrichards.ca>

Sent: May 25, 2022 3:10 PM

To: Orpana, Jon (MECP) <Jon.Orpana@ontario.ca>; JGendron@alfred-plantagenet.com; Melody Johnson

<melody@bskyeng.com>; Baxter, Sarah (MECP) <Sarah.Baxter@ontario.ca>; Jordan Morrissette

<jmorrissette@jlrichards.ca>; Castro, Victor (MECP) <Victor.Castro@ontario.ca>

Cc: Sarah Gore <sgore@jlrichards.ca>; Durocher, Jean-Francois (MECP) <Jean-Francois.Durocher@ontario.ca>

Subject: JLR No. 27623-013 - Twp. Alfred & Plantagenet - Plantagenet Wastewater Schedule C MEA

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

Hi Everyone,

Please find attached minutes from the meeting held on May 5, 2022, relating to assimilative capacity assessment for the above-noted project. I have extracted below MECP action items from the minutes:

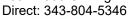
- Total Phosphorous loadings are proposed to be limited to 208.4 kg/year, representing the loading approved as part of the 1998 Class EA study. MECP to confirm that this loading can still be applied to the current upgrades. **Action MECP.**
- M. Johnson noted that input from the MECP will be used to guide the development of discharge targets for the system. MECP to review information presented during this meeting and provide feedback on the proposed approach. Action MECP.

Should you have any questions, comments or corrections, please let us know.

Thanks,

Nicolas Bialik

J.L. Richards & Associates Limited 700 - 1565 Carling Avenue, Ottawa, ON K1Z 8R1







From: Nicolas Bialik

Sent: Wednesday, May 4, 2022 10:27 AM

To: Orpana, Jon (MECP) < Jon. Orpana@ontario.ca>; JGendron@alfred-plantagenet.com; Melody Johnson

<melody@bskyeng.com>; Baxter, Sarah (MECP) <Sarah.Baxter@ontario.ca>; Jordan Morrissette

<imorrissette@ilrichards.ca>

Cc: Castro, Victor (MECP) < Victor. Castro@ontario.ca>

Subject: RE: Twp. Alfred - Plantagenet Wastewater Treatment Plant Schedule C MEA

Hi Everyone,

Please find attached PowerPoint slides that will be followed during our meeting to facilitate discussion.

Thanks,

-----Original Appointment-----

From: Orpana, Jon (MECP) < Jon. Orpana@ontario.ca>

Sent: Wednesday, April 20, 2022 4:24 PM

To: Orpana, Jon (MECP); JGendron@alfred-plantagenet.com; Nicolas Bialik; Melody Johnson; Baxter, Sarah (MECP);

Jordan Morrissette

Cc: Castro. Victor (MECP)

Subject: Twp. Alfred - Plantagenet Wastewater Treatment Plant Schedule C MEA

When: Thursday, May 5, 2022 1:30 PM-2:30 PM (UTC-05:00) Eastern Time (US & Canada).

Where: Microsoft Teams Meeting

----Original Appointment-----

From: Orpana, Jon (MECP) < Jon. Orpana@ontario.ca>

Sent: Wednesday, April 20, 2022 3:33 PM

To: Orpana, Jon (MECP); Baxter, Sarah (MECP); Jordan Morrissette

Cc: Castro, Victor (MECP)

Subject: Twp. Alfred - Plantagenet Wastewater Treatment Plant Schedule C MEA

When: Thursday, May 5, 2022 1:30 PM-2:30 PM (UTC-05:00) Eastern Time (US & Canada).

Where: Microsoft Teams Meeting

[CAUTION] This email originated from outside JLR. Do not click links or open attachments unless you recognize the sender and know the content is safe. If in doubt, please forward suspicious emails to Helpdesk.

Hello Folks,

Please find attached a meeting invite for the above mentioned project to discuss assimilative capacity for the South Nation River with respect to the Plantagenet WWTP.

April 27 did not work for pertinent MECP staff. Please forward to whoever you deem necessary.

Regards,

Jon

Jon K. Orpana
Regional Environmental Planner
Environmental Assessment Branch
Ministry of the Environment, Conservation and Parks
Kingston Regional Office
PO Box 22032, 1259 Gardiners Road
Kingston, Ontario
K7M 8S5

From: Orpana, Jon (MECP) <Jon.Orpana@ontario.ca>

Sent: Tuesday, May 3, 2022 12:11 PM

To: Nicolas Bialik

Subject: RE: Twp. Alfred - Plantagenet Wastewater Treatment Plant Schedule C MEA

Thanks Nicolas,

This will help us get a better idea of what is on the table for discussion.

Have a great day!

Jon

Jon K. Orpana
Regional Environmental Planner
Environmental Assessment Branch
Ministry of the Environment, Conservation and Parks
Kingston Regional Office
PO Box 22032, 1259 Gardiners Road
Kingston, Ontario
K7M 8S5

Phone: (613) 548-6918 Fax: (613) 548-6908

Email: jon.orpana@ontario.ca

From: Nicolas Bialik <nbialik@jlrichards.ca>

Sent: May 3, 2022 11:38 AM

To: Orpana, Jon (MECP) < Jon. Orpana@ontario.ca>

Cc: Baxter, Sarah (MECP) <Sarah.Baxter@ontario.ca>; Castro, Victor (MECP) <Victor.Castro@ontario.ca>; Jordan

Morrissette <jmorrissette@jlrichards.ca>; Melody Johnson <melody@bskyeng.com> **Subject:** RE: Twp. Alfred - Plantagenet Wastewater Treatment Plant Schedule C MEA

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

Hi Jon,

Please find attached a memorandum describing ambient conditions and proposed approach to the Assimilative Capacity Assessment. This will be discussed during our meeting on Thursday.

PowerPoint slides have been prepared for our meeting. I will distribute these once they have been reviewed.

Our agenda for the meeting will be as follows:

- Project Contacts
- Overview of Existing Plantagenet Wastewater System and Performance

- Assimilative Capacity of the South Nation River
- Proposed Approach for Developing Effluent Discharge Requirements
- Next Steps / Additional Comments

Let me know if there's any additional information you believe might be helpful to review prior to the meeting.

Thanks,

Nicolas Bialik, EIT Environmental Engineering Intern

J.L. Richards & Associates Limited 700 - 1565 Carling Avenue, Ottawa, ON K1Z 8R1 Direct: 343-804-5346





From: Orpana, Jon (MECP) < Jon. Orpana@ontario.ca>

Sent: Tuesday, May 3, 2022 11:20 AM **To:** Nicolas Bialik < nbialik@jlrichards.ca>

Cc: Baxter, Sarah (MECP) < Sarah.Baxter@ontario.ca >; Castro, Victor (MECP) < Victor.Castro@ontario.ca >

Subject: Twp. Alfred - Plantagenet Wastewater Treatment Plant Schedule C MEA

[CAUTION] This email originated from outside JLR. Do not click links or open attachments unless you recognize the sender and know the content is safe. If in doubt, please forward suspicious emails to Helpdesk.

Hello Nicolas

Is there any information that MECP surface water staff can review in advance of our meeting on Thursday so that we may be better prepared to address any questions etc. that you may have for us.

Thanks in advance.

Jon

Jon K. Orpana
Regional Environmental Planner
Environmental Assessment Branch
Ministry of the Environment, Conservation and Parks
Kingston Regional Office
PO Box 22032, 1259 Gardiners Road
Kingston, Ontario
K7M 8S5

Phone: (613) 548-6918 Fax: (613) 548-6908

From: Jordan Morrissette

Sent: Wednesday, April 13, 2022 9:13 PM

To: Jon.Orpana@ontario.ca

Cc: Nicolas Bialik; Melody Johnson; JGendron@alfred-plantagenet.com

Subject: RE: Twp. Alfred - Plantagenet Wastewater Treatment Plant Schedule C MEA

Hi Mr. Orpana,

We are currently working through Phase 1 associated with the Plantagenet Wastewater Class EA, which includes an assimilative capacity assessment of the South Nation River. Blue Sky Engineering and JLR are working with the Township on this task and would like to setup a consultation meeting to discuss the work to date on ambient water quality, flow analysis and the proposed approach to the assimilative capacity assessment (ACS). The intent of the meeting would be to obtain preliminary input associated with the proposed approach for finalizing of the ACS.

Please let us know if one of the below dates would work for MECP and if there is a time that would work best for you. Our current preference is April 27th.

- Wednesday, April 27th, AM or PM
- Thursday, May 5th, PM

Should you have any questions or concerns, please do not hesitate to contact me.

Regards, Jordan

From: Orpana, Jon (MECP) < <u>Jon.Orpana@ontario.ca</u>>
Sent: Wednesday, December 22, 2021 11:45 AM

To: <u>igendron@alfred-plantagenet.com</u>

Cc: Jordan Morrissette < imorrissette@jlrichards.ca >; Primeau, Charlie (MECP) < Charlie.Primeau@ontario.ca >

Subject: Twp. Alfred - Plantagenet Wastewater Treatment Plant Schedule C MEA

[CAUTION] This email originated from outside JLR. Do not click links or open attachments unless you recognize the sender and know the content is safe. If in doubt, please forward suspicious emails to Helpdesk.

Hello Mr. Gendron,

Please find attached MECP's preliminary comments on the above noted project. Included is the minimum consultation list for indigenous communities that may have an interest in your project.

Regards,

Jon K. Orpana
Regional Environmental Planner
Environmental Assessment Branch
Ministry of the Environment, Conservation and Parks
Kingston Regional Office

MECP EMAIL THREAD: MECP Response Letter and Subsequent Class EA Correspondences (PICs and Reports)

From: Camila Valcarcel <cvalcarcel@jlrichards.ca>

Sent: Friday, October 20, 2023 2:41 PM

To: Jon.Orpana@ontario.ca

Cc: Charlie.Primeau@ontario.ca; Nicolas Bialik; Jordan Morrissette; JGendron@alfred-

plantagenet.com

Subject: Plantagenet Wastewater Schedule 'C' Class EA Consultation - Phase 2 Report

Attachments: Mimecast Large File Send Instructions

I'm using Mimecast to share large files with you. Please see the attached instructions.

Hi Jon,

Please find attached Phase 2 Report.

Should you have any questions or comments, please let us know.

Thanks,

From: Camila Valcarcel

Sent: Friday, October 20, 2023 2:38 PM

To: Jon.Orpana@ontario.ca

Cc: Nicolas Bialik; Jordan Morrissette; JGendron@alfred-plantagenet.com;

Charlie.Primeau@ontario.ca

Subject: Plantagenet Wastewater Schedule 'C' Class EA Consultation - Notice of PIC No. 1

Attachments: 31457 - Plantagenet Class EA - PIC2_Jon Orpana.pdf

Hello Jon,

Please find attached letter and notice of Public Information Centre (PIC) No. 2 for the Plantagenet Wastewater Class Environmental Assessment (EA). As a key stakeholder for this study, you are invited to attend the PIC, which is occurring November 6, 2023 between 6pm – 8pm in Plantagenet, Ontario. Additional details on the PIC and on study progress are provided in the attached letter and notice.

Should you have any questions or feedback, please do not hesitate to respond to this email or contact either of the two (2) project contacts found in the attached notice.

We look forward to hearing from you.

Regards,

From: Nicolas Bialik

Sent: Friday, April 28, 2023 9:42 AM **To:** Jon.Orpana@ontario.ca

Cc: JGendron@alfred-plantagenet.com; Jordan Morrissette; Charlie.Primeau@ontario.ca

Subject: RE: Twp. Alfred - Plantagenet Wastewater Treatment Plant Schedule C MEA

Large File Send

Sent Files



You shared files with <u>Jon.Orpana@ontario.ca</u> <u>JGendron@alfred-</u>plantagenet.com jmorrissette@jlrichards.ca Charlie.Primeau@ontario.ca.

File(s):

31457_Plantagenet WW Class EA_Phase 1 Report_0_Stamped.pdf

31457_Plantagenet WW Class EA_Phase 1 Report_Appendix E.pdf

31457 - Plantagenet Class EA _Jon_Orpana.pdf

Hi Jon,

Please find attached the Phase 1 Report (two attachments) for the above-noted study for your review.

Note that Public Information Centre (PIC) No. 1, which you are invited to attend, is being held on May 10, 2023 between 6pm – 8pm in Plantagenet, Ontario. Additional details on the PIC and on study progress are provided in the attached letter and notice.

Should you have any comments or questions, please do not hesitate to respond to this email or contact either of the two (2) project contacts found in the attached notice.

Regards,

From: Nicolas Bialik

Sent: Wednesday, March 29, 2023 11:11 AM **To:** Orpana, Jon (MECP) < Jon. Orpana@ontario.ca>

Cc: JGendron@alfred-plantagenet.com; Jordan Morrissette < jmorrissette@jlrichards.ca>; Primeau, Charlie (MECP)

<Charlie.Primeau@ontario.ca>

Subject: Re: Twp. Alfred - Plantagenet Wastewater Treatment Plant Schedule C MEA

Hi Jon,

Please find attached letter in response to your letter with preliminary MECP comments. Should you have any questions or comments, please let us know.

Note that we are in the process of finalizing the Phase 1 Report for this study, and will provide the report to the MECP once finalized.

Regards,

From: Orpana, Jon (MECP) < <u>Jon.Orpana@ontario.ca</u>>
Sent: Wednesday, December 22, 2021 11:45 AM

To: jgendron@alfred-plantagenet.com

Cc: Jordan Morrissette < jmorrissette@jlrichards.ca >; Primeau, Charlie (MECP) < Charlie.Primeau@ontario.ca >

Subject: Twp. Alfred - Plantagenet Wastewater Treatment Plant Schedule C MEA

[CAUTION] This email originated from outside JLR. Do not click links or open attachments unless you recognize the sender and know the content is safe. If in doubt, please forward suspicious emails to Helpdesk.

Hello Mr. Gendron,

Please find attached MECP's preliminary comments on the above noted project. Included is the minimum consultation list for indigenous communities that may have an interest in your project.

Regards,

Jon K. Orpana
Regional Environmental Planner
Environmental Assessment Branch
Ministry of the Environment, Conservation and Parks
Kingston Regional Office
PO Box 22032, 1259 Gardiners Road
Kingston, Ontario
K7M 8S5

Phone: (613) 548-6918 Fax: (613) 548-6908

Email: jon.orpana@ontario.ca



J.L. Richards & Associates Limited 343 Preston Street Tower II, Suite 1000 Ottawa Ontario K1S 1N4 613 728 3571 www.jlrichards.ca

March 29, 2023

Our File No.: 31457-000

VIA: E-MAIL

Jon Orpana
Environmental Resource Planner and EA Coordinator, Environmental Assessment Branch
Ministry of the Environment, Conservation and Parks
135 St Clair Avenue West, 7th Floor

Toronto, ON M4V 1P5

Dear Mr. Orpana:

Re: Township of Alfred and Plantagenet, Plantagenet Wastewater Class EA, Response to MECP Letter (dated December 22, 2021)

We confirm receipt of your letter dated December 22, 2021 (attached), complete with the following attachments:

- 1. "Areas of Interest" document, February 2021
- 2. A Proponent's Introduction to the Delegation of Procedural Aspects of Consultation with Aboriginal Communities
- 3. Client's Guide to Preliminary Screening for Species at Risk, May 2019

In response to this letter and attachments, we offer the following information:

AREAS OF INTEREST

We confirm that we have reviewed the MECP's "Areas of Interest" document, dated February 2021, and offer the following in response:

- **Planning and Policy** Reference to the Provincial Policy Statement (including applicable policies) and municipal planning documents will be provided in the Phase 1 Report. The Environmental Study Report (ESR) will describe how the proposed project is consistent with these policies.
- **Source Water Protection** A review of vulnerable areas, as defined in the Clean Water Act, was completed for the Village. No vulnerable areas were identified. Reference to the Clean Water Act and findings from the review will be provided in the Phase 1 Report.
- Climate Change As part of the evaluation of alternatives, consideration will be given to
 greenhouse gas emissions and impacts on carbon sinks, and resiliency or vulnerability of
 the alternatives. A technical memorandum will be prepared during Phase 2 to review
 potential climate change impacts.



March 29, 2023 Our File No.: 31457-000 J.L.Richards
ENGINEERS · ARCHITECTS · PLANNERS

Jon Orpana, Ministry of the Environment, Conservation and Parks

- Air Quality, Dust and Noise A review of sensitive receptors (residential properties) in the area surrounding the Plantagenet Lagoon was completed. The nearest sensitive receiver is located approximately 170 m east of the edge of the existing lagoon. This exceeds the recommended separation distance of 150 m for wastewater treatment plants of capacity 500 m³/day to 25,000 m³/day, as described in MECP Guideline D-2 "Compatibility between Sewage Treatment and Sensitive land Use". The potential for impacts related to air quality, dust and noise will be considered in the evaluation of alternatives and and presented in the ESR.
- Ecosystem Protection and Restoration A Natural Environment Assessment Study is being undertaken within the study area to assess potential impacts and develop appropriate mitigation measures. A study report will be provided as part of the ESR, and main findings will be added to the Phase 1 and Phase 2 Reports, where applicable.
- Species at Risk As part of the Natural Environment Assessment Study, Species at Risk within and around the study area will be identified, and appropriate mitigation measures will be developed.
- Surface Water An Assimilative Capacity Assessment Study is being undertaken to
 assess the South Nation River's capacity to receive effluent from the Plantagenet
 Wastewater Treatment System. As part of this study, proposed effluent criteria for an
 expanded system will be developed ensuring there are no negative impacts to the river. If
 applicable, the ESR will also describe mitigation measures to be followed during
 construction of the proposed upgrades and include a Stormwater Management Plan for
 the preferred upgrade design.
- Groundwater A Preliminary Hydrogeological Investigation is being undertaken in the
 vicinity of the Plantagenet Lagoon to establish baseline hydrogeological conditions,
 identify potential impacts to hydrogeological features and wells, and develop mitigation
 measures (if applicable). A report will be provided as an attachment to the ESR, and main
 findings will be added in the report. Any potential approval requirements for groundwater
 taking or discharge will be identified in the ESR.
- Excess Material Management If the preferred activity involves the management of excess soil, the ESR will include a reference to O. Reg 406/19 and MECP's current guideline on the management of excess soil.
- Contaminated Sites Waste disposal sites, known contaminated sites and underground storage tanks in the study area will be identified and shown in the Phase I Report. Appropriate mitigation measures will be identified in the ESR; additional studies may be required as part of preliminary design based on the preferred solution identified and excess material management.
- **Servicing, Utilities and Facilities** As part of the conceptual design of the preferred solution (if applicable), above- and below-grade utilities and related coordination requirements will be identified. This information will be provided in the ESR.



Jon Orpana, Ministry of the Environment, Conservation and Parks

- Mitigation and Monitoring If applicable, a section for mitigation measures will be added
 to the ESR. The ESR will identify a requirement for construction and post-construction
 monitoring plans to be determined and confirmed based on preliminary design and
 detailed design of the preferred solution.
- Consultation All Class EA reports will include a specific section on consultation, and include a record of all comments received and responses provided as part of the Class EA process.
- Class EA Process A description of the approach being undertaken for this Class EA is included in the Phase 1 Report. This Class EA is being initiated as a Schedule C project. The ESR will include reference to the amendments to the EAA through the COVID-19 Economic Recovery Act (2020).

CONSULTATION WITH ABORIGINAL COMMUNITIES

Following receipt of your letter, the Notice of Commencement was distributed to the Algonquins of Ontario and Kitigan Zibi Anishinabeg communities (submitted on December 23, 2021). These communities will continue to be consulted during the Class EA process. Note that no responses have been received from these communities to date.

REPORTS AND NOTICES

It is noted that copies of the Phase 1 Report, Phase 2 Report, and draft Environmental Study Report (ESR) will be provided to the MECP for review and comment. As noted in the letter, a copy of the Notice of Completion will be sent to the MECP's Eastern Region EA notification email account (eanotification.eregion@ontario.ca).

If there are any questions regarding the above, please contact the undersigned.

Yours very truly,

J.L. RICHARDS & ASSOCIATES LIMITED

Bialik

Prepared by:

Reviewed by:

Nicolas Bialik, P.Eng. Environmental Engineer Jordan Morrissette, M.Eng., P.Eng. Associate, Senior Environmental Engineer

Joda Moussett

NB/JM:nb





Ministry of the Environment, Conservation and Parks

Ministère de l'Environnement, de la Protection de la nature et des Parcs

Environmental Assessment

Branch

Direction des évaluations environnementales

1st Floor Rez-de-chaussée

 135 St. Clair Avenue W
 135, avenue St. Clair Ouest

 Toronto ON M4V 1P5
 Toronto ON M4V 1P5

 Tel.: 416 314-8001
 Tél.: 416 314-8001

 Fax.: 416 314-8452
 Téléc.: 416 314-8452

December 22, 2021

Jonathan Gendron, P. Eng. Municipal Engineer Alfred-Plantagenet igendron@alfred-plantagenet.com

BY EMAIL ONLY

Re: Plantagenet Wastewater System
Township of Alfred-Plantagenet
Municipal Class EA, Schedule C
Response to Notice of Commencement

Dear Jonathan Gendron,

This letter is in response to the Notice of Commencement for the above noted project issued December 2, 2021. The Ministry of the Environment, Conservation and Parks (MECP) acknowledges that the Proponent has indicated that the study is following the approved environmental planning process for a Schedule C project under the Municipal Class Environmental Assessment (Class EA).

The updated (February 2021) attached "Areas of Interest" document provides guidance regarding the ministry's interests with respect to the Class EA process. Please address all areas of interest in the EA documentation at an appropriate level for the EA study. Proponents who address all the applicable areas of interest can minimize potential delays to the project schedule. Further information is provided at the end of the Areas of Interest document relating to recent changes to the Environmental Assessment Act through Bill 197, Covid-19 Economic Recovery Act 2020.

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 authorizing 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 this duty to project proponents while retaining oversight of the consultation process.

The 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 the proposed project, the MECP is delegating the procedural aspects of rights-based consultation to the proponent 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 provided to date and the Crown's preliminary assessment the proponent is required to consult with the following communities who have been identified as potentially affected by the proposed project:

- Algonquins of Ontario (AOO)
- Kitigan Zibi Anishinabeg (KZA)

Steps that the proponent may need to take in relation to Aboriginal consultation for the proposed project are outlined in the "Code of Practice for Consultation in Ontario's Environmental Assessment Process". Additional information related to Ontario's Environmental Assessment Act is available online at: www.ontario.ca/environmentalassessments.

Please also refer to the attached document "A Proponent's Introduction to the Delegation of Procedural Aspects of consultation with Aboriginal Communities" for further information, including the MECP's expectations for EA report documentation related to consultation with communities.

The proponent must contact the Director of Environmental Assessment Branch (EABDirector@ontario.ca) under the following circumstances subsequent to initial discussions with the communities identified by the MECP:

- 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 with Indigenous communities or other stakeholders has reached an impasse; or
- A Section 16 Order request is expected on the basis of impacts to Aboriginal or treaty rights

The MECP 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 you will be asked to play should additional steps and activities be required.

A draft copy of the report should be sent directly to me prior to the filing of the final report, allowing a minimum of 30 days for the ministry's technical reviewers to provide comments.

Please also ensure a copy of the final notice is sent to the ministry's Eastern Region EA notification email account (eanotification.eregion@ontario.ca) after the draft report is reviewed and finalized.

Should you or any members of your project team have any questions regarding the material above, please contact me at jon.orpana@ontario.ca.

Sincerely,

on Orpana

Regional Environmental Planner – Eastern Region

Email - jon.orpana@ontario.ca

Cc:

Charlie Primeau, Water Compliance Supervisor, Ottawa District Office, MECP Email - Charlie.primeau@ontario.ca

Jordan Morrissette, P. Eng. Environmental Engineer J.L. Richards & Associates Ltd. Email - jmorrissette@jlrichards.ca

Encl. Areas of Interest

AREAS OF INTEREST (v. February 2021)

It is suggested that you check off each section after you have considered / addressed it.

□ Planning and Policy

- Projects located in MECP Eastern Region may have parts of the study area subject to the
 <u>Oak Ridges Moraine Conservation Plan</u> (2017), <u>Greenbelt Plan</u> (2017) or <u>Lake Simcoe</u>
 <u>Protection Plan</u> (2014). Applicable plans and the applicable policies should be identified in
 the report, and the proponent should <u>describe</u> how the proposed project adheres to the
 relevant policies in these plans.
- The <u>Provincial Policy Statement</u> (2020) contains policies that protect Ontario's natural heritage and water resources. Applicable policies should be referenced in the report, and the proponent should describe how the proposed project is consistent with these policies.
- In addition to the provincial planning and policy level, the report should also discuss the planning context at the municipal and federal levels, as appropriate.

☐ Source Water Protection

The Clean Water Act, 2006 (CWA) aims to protect existing and future sources of drinking water. To achieve this, several types of vulnerable areas have been delineated around surface water intakes and wellheads for every municipal residential drinking water system that is located in a source protection area. These vulnerable areas are known as a Wellhead Protection Areas (WHPAs) and surface water Intake Protection Zones (IPZs). Other vulnerable areas that have been delineated under the CWA include Highly Vulnerable Aquifers (HVAs), Significant Groundwater Recharge Areas (SGRAs), Event-based modelling areas (EBAs), and Issues Contributing Areas (ICAs). Source protection plans have been developed that include policies to address existing and future risks to sources of municipal drinking water within these vulnerable areas.

Projects that are subject to the Environmental Assessment Act that fall under a Class EA, or one of the Regulations, have the potential to impact sources of drinking water if they occur in designated vulnerable areas or in the vicinity of other at-risk drinking water systems (i.e. systems that are not municipal residential systems). MEA Class EA projects may include activities that, if located in a vulnerable area, could be a threat to sources of drinking water (i.e. have the potential to adversely affect the quality or quantity of drinking water sources) and the activity could therefore be subject to policies in a source protection plan. Where an activity poses a risk to drinking water, policies in the local source protection plan may impact how or where that activity is undertaken. Policies may prohibit certain activities, or they may require risk management measures for these activities. Municipal Official Plans, planning decisions, Class EA projects (where the project includes an activity that is a threat to drinking water) and

prescribed instruments must conform with policies that address significant risks to drinking water and must have regard for policies that address moderate or low risks.

- In October 2015, the MEA Parent Class EA document was amended to include reference to the Clean Water Act (Section A.2.10.6) and indicates that proponents undertaking a Municipal Class EA project must identify early in their process whether a project is or could potentially be occurring with a vulnerable area. **Given this requirement, please include a section in the report on source water protection.**
 - The proponent should identify the source protection area and should clearly document how the proximity of the project to sources of drinking water (municipal or other) and any delineated vulnerable areas was considered and assessed.
 Specifically, the report should discuss whether or not the project is located in a vulnerable area and provide applicable details about the area.
 - O If located in a vulnerable area, proponents should document whether any project activities are prescribed drinking water threats and thus pose a risk to drinking water (this should be consulted on with the appropriate Source Protection Authority). Where an activity poses a risk to drinking water, the proponent must document and discuss in the report how the project adheres to or has regard to applicable policies in the local source protection plan. This section should then be used to inform and be reflected in other sections of the report, such as the identification of net positive/negative effects of alternatives, mitigation measures, evaluation of alternatives etc.
- While most source protection plans focused on including policies for significant drinking
 water threats in the WHPAs and IPZs it should be noted that even though source protection
 plan policies may not apply in HVAs, these are areas where aquifers are sensitive and at risk
 to impacts and within these areas, activities may impact the quality of sources of drinking
 water for systems other than municipal residential systems.
- In order to determine if this project is occurring within a vulnerable area, proponents can use this mapping tool: http://www.applications.ene.gov.on.ca/swp/en/index.php. Note that various layers (including WHPAs, WHPA-Q1 and WHPA-Q2, IPZs, HVAs, SGRAs, EBAs, ICAs) can be turned on through the "Map Legend" bar on the left. The mapping tool will also provide a link to the appropriate source protection plan in order to identify what policies may be applicable in the vulnerable area.
- For further information on the maps or source protection plan policies which may relate to their project, proponents must contact the appropriate source protection authority. Please consult with the local source protection authority to discuss potential impacts on drinking water. Please document the results of that consultation within the report and include all communication documents/correspondence.

More Information

For more information on the *Clean Water Act*, source protection areas and plans, including specific information on the vulnerable areas and drinking water threats, please refer to Conservation Ontario's website where you will also find links to the local source protection plan/assessment report.

A list of the prescribed drinking water threats can be found in <u>section 1.1 of Ontario Regulation 287/07</u> made under the *Clean Water Act*. In addition to prescribed drinking water threats, some source protection plans may include policies to address additional "local" threat activities, as approved by the MECP.

☐ Climate Change

The document "Considering Climate Change in the Environmental Assessment Process" (Guide) is now a part of the Environmental Assessment program's Guides and Codes of Practice. The Guide sets out the MECP's expectation for considering climate change in the preparation, execution and documentation of environmental assessment studies and processes. The guide provides examples, approaches, resources, and references to assist proponents with consideration of climate change in EA. Proponents should review this Guide in detail.

• The MECP expects proponents of Class EA projects to:

- 1. Consider during the assessment of alternative solutions and alternative designs, the following:
 - a. the project's expected production of greenhouse gas emissions and impacts on carbon sinks (climate change mitigation); and
 - b. resilience or vulnerability of the undertaking to changing climatic conditions (climate change adaptation).
- 2. Include a discrete section in the report detailing how climate change was considered in the EA.

How climate change is considered can be qualitative or quantitative in nature and should be scaled to the project's level of environmental effect. In all instances, both a project's impacts on climate change (mitigation) and impacts of climate change on a project (adaptation) should be considered.

The MECP has also prepared another guide to support provincial land use planning direction related to the completion of energy and emission plans. The "Community Emissions Reduction Planning: A Guide for Municipalities" document is designed to educate stakeholders on the municipal opportunities to reduce energy and greenhouse gas emissions, and to provide guidance on methods and techniques to incorporate consideration of energy and greenhouse gas emissions into municipal activities of all types. We encourage you to review the Guide for information.

☐ Air Quality, Dust and Noise

- If there are sensitive receptors in the surrounding area of this project, a quantitative air quality/odour impact assessment will be useful to evaluate alternatives, determine impacts and identify appropriate mitigation measures. The scope of the assessment can be determined based on the potential effects of the proposed alternatives, and typically includes source and receptor characterization and a quantification of local air quality impacts on the sensitive receptors and the environment in the study area. The assessment will compare to all applicable standards or guidelines for all contaminants of concern.
 Please contact this office for further consultation on the level of Air Quality Impact Assessment required for this project if not already advised.
- If a quantitative Air Quality Impact Assessment is not required for the project, the MECP expects that the report contain a qualitative assessment which includes:
 - A discussion of local air quality including existing activities/sources that significantly impact local air quality and how the project may impact existing conditions;
 - A discussion of the nearby sensitive receptors and the project's potential air quality impacts on present and future sensitive receptors;
 - A discussion of local air quality impacts that could arise from this project during both construction and operation; and
 - o A discussion of potential mitigation measures.
- As a common practice, "air quality" should be used an evaluation criterion for all road projects.
- 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.
- The MECP recommends that non-chloride dust-suppressants be applied. For a
 comprehensive list of fugitive dust prevention and control measures that could be applied,
 refer to <u>Cheminfo Services Inc. Best Practices for the Reduction of Air Emissions from
 Construction and Demolition Activities report prepared for Environment Canada. March
 2005.
 </u>
- The report should consider the potential impacts of increased noise levels during the operation of the completed project. The proponent should explore all potential measures to mitigate significant noise impacts during the assessment of alternatives.

Ecosystem Protection and Restoration

- Any impacts to ecosystem form and function must be avoided where possible. The report should describe any proposed mitigation measures and how project planning will protect and enhance the local ecosystem.
- Natural heritage and hydrologic features should be identified and described in detail to assess potential impacts and to develop appropriate mitigation measures. The following sensitive environmental features may be located within or adjacent to the study area:
 - Key Natural Heritage Features: Habitat of endangered species and threatened species, fish habitat, wetlands, areas of natural and scientific interest (ANSIs), significant valleylands, significant woodlands; significant wildlife habitat (including habitat of special concern species); sand barrens, savannahs, and tallgrass prairies; and alvars.
 - Key Hydrologic Features: Permanent streams, intermittent streams, inland lakes and their littoral zones, seepage areas and springs, and wetlands.
 - Other natural heritage features and areas such as: vegetation communities, rare species of flora or fauna, Environmentally Sensitive Areas, Environmentally Sensitive Policy Areas, federal and provincial parks and conservation reserves, Greenland systems etc.

We recommend consulting with the Ministry of Natural Resources and Forestry (MNRF), Fisheries and Oceans Canada (DFO) and your local conservation authority to determine if special measures or additional studies will be necessary to preserve and protect these sensitive features. In addition, you may consider the provisions of the Rouge Park Management Plan if applicable.

□ Species at Risk

- The Ministry of the Environment, Conservation and Parks has now assumed responsibility of Ontario's Species at Risk program. Information, standards, guidelines, reference materials and technical resources to assist you are found at https://www.ontario.ca/page/species-risk.
- The Client's Guide to Preliminary Screening for Species at Risk (Draft May 2019) has been attached to the covering email for your reference and use. Please review this document for next steps.
- For any questions related to subsequent permit requirements, please contact SAROntario@ontario.ca.

П	Su	rfa	ce	W	at	er
	Ju	ııa	CC	vv	aı	CI

- The report must include enough 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,
 pollution) are mitigated as part of the proposed undertaking.
- Additional stormwater runoff from new pavement can impact receiving watercourses and flood conditions. Quality and quantity control measures to treat stormwater runoff should be considered for all new impervious areas and, where possible, existing surfaces. The ministry's <u>Stormwater Management Planning and Design Manual (2003)</u> should be referenced in the report and utilized when designing stormwater control methods. <u>A</u> <u>Stormwater Management Plan should be prepared as part of the Class EA process</u> that includes:
 - Strategies to address potential water quantity and erosion impacts related to stormwater draining into streams or other sensitive environmental features, and to ensure that adequate (enhanced) water quality is maintained
 - Watershed information, drainage conditions, and other relevant background information
 - Future drainage conditions, stormwater management options, information on erosion and sediment control during construction, and other details of the proposed works
 - Information on maintenance and monitoring commitments.
- Ontario Regulation 60/08 under the Ontario Water Resources Act (OWRA) applies to the
 Lake Simcoe Basin, which encompasses Lake Simcoe and the lands from which surface
 water drains into Lake Simcoe. If the proposed sewage treatment plant is listed in Table 1 of
 the regulation, the report should describe how the proposed project and its mitigation
 measures are consistent with the requirements of this regulation and the OWRA.
- Any potential approval requirements for surface water taking or discharge should be identified in the report. A Permit to Take Water (PTTW) under the OWRA will be required for any water takings that exceed 50,000 L/day, except for certain water taking activities that have been prescribed by the Water Taking EASR Regulation O. Reg. 63/16. These prescribed water-taking activities require registration in the EASR instead of a PTTW. Please review the Water Taking User Guide for EASR for more information. Additionally, an Environmental Compliance Approval under the OWRA is required for municipal stormwater management works.

_	_		-	
	Gr	nur	าฝง	vater

- 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 report.
- If the potential construction or decommissioning of water wells is identified as an issue, the report should refer to Ontario Regulation 903, Wells, under the OWRA.
- 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 report. A Permit to Take Water (PTTW) under the OWRA will be required for any water takings that exceed 50,000 L/day, with the exception of certain water taking activities that have been prescribed by the Water Taking EASR Regulation O. Reg. 63/16. These prescribed water-taking activities require registration in the EASR instead of a PTTW. Please review the Water Taking User Guide for EASR for more information.
- Consultation with the railroad authorities is necessary wherever there is a plan to use construction dewatering in the vicinity of railroad lines or where the zone of influence of the construction dewatering potentially intercepts railroad lines.

☐ Excess Materials Management

• In December 2019, MECP released a new regulation under the Environmental Protection Act, titled "On-Site and Excess Soil Management" (O. Reg. 406/19) to support improved management of excess construction soil. This regulation is a key step to support proper management of excess soils, ensuring valuable resources don't go to waste and to provide clear rules on managing and reusing excess soil. New risk-based standards referenced by this regulation help to facilitate local beneficial reuse which in turn will reduce greenhouse gas emissions from soil transportation, while ensuring strong protection of human health and the environment. The new regulation is being phased in over time, with the first phase

in effect on January 1, 2021. For more information, please visit https://www.ontario.ca/page/handling-excess-soil.

- The report should reference that activities involving the management of excess soil should be completed in accordance with O. Reg. 406/19 and the MECP's current guidance document titled "Management of Excess Soil – A Guide for Best Management Practices" (2014).
- All waste generated during construction must be disposed of in accordance with ministry requirements

□ Contaminated Sites

- Any current or historical waste disposal sites should be identified in the report. The status of
 these sites should be determined to confirm whether approval pursuant to Section 46 of
 the EPA may be required for land uses on former disposal sites. We recommend referring to
 the MECP's D-4 guideline for land use considerations near landfills and dumps.
 - Resources available may include regional/local municipal official plans and data; provincial data on <u>large landfill sites</u> and <u>small landfill sites</u>; Environmental Compliance Approval information for waste disposal sites on <u>Access Environment</u>.
- Other known contaminated sites (local, provincial, federal) in the study area should also be identified in the report (Note information on federal contaminated sites is found on the Government of Canada's <u>website</u>).
- The location of any underground storage tanks should be investigated in the report. 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's Spills Action Centre must be contacted in such an event.
- 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. Please contact the appropriate MECP District Office for further consultation if contaminated sites are present.

□ Servicing, Utilities and Facilities

- The report should identify any above or underground utilities in the study area such as transmission lines, telephone/internet, oil/gas etc. The owners should be consulted to discuss impacts to this infrastructure, including potential spills.
- The report should identify any servicing infrastructure in the study area such as wastewater, water, stormwater that may potentially be impacted by the project.
- 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 an Environmental Compliance Approval (ECA) before it can operate lawfully.
 Please consult with MECP's Environmental Permissions Branch to determine whether a new
 or amended ECA will be required for any proposed infrastructure.
- We recommend referring to the ministry's <u>environmental land use planning guides</u> to ensure that any potential land use conflicts are considered when planning for any infrastructure or facilities related to wastewater, pipelines, landfills or industrial uses.

☐ Mitigation and Monitoring

- 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 report and regularly monitored
 during the construction stage of the project. In addition, we encourage proponents to
 conduct post-construction monitoring to ensure all mitigation measures have been effective
 and are functioning properly.
- 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.
- The proponent's construction and post-construction monitoring plans must be documented in the report, as outlined in Section A.2.5 and A.4.1 of the MEA Class EA parent document.

□ Consultation

• The report must demonstrate how the consultation provisions of the Class EA have been fulfilled, including documentation of all stakeholder consultation efforts undertaken during the planning process. This includes a discussion in the report that identifies concerns that were raised and describes how they have been addressed by the proponent throughout

the planning process. The report should also include copies of comments submitted on the project by interested stakeholders, and the proponent's responses to these comments (as directed by the Class EA to include full documentation).

• Please include the full stakeholder distribution/consultation list in the documentation.

☐ Class EA Process

- If this project is a Master Plan: there are several different approaches that can be used to conduct a Master Plan, examples of which are outlined in Appendix 4 of the Class EA. The Master Plan should clearly indicate the selected approach for conducting the plan, by identifying whether the levels of assessment, consultation and documentation are sufficient to fulfill the requirements for Schedule B or C projects. Please note that any Schedule B or C projects identified in the plan would be subject to Part II Order Requests under the Environmental Assessment Act, although the plan itself would not be. Please include a description of the approach being undertaken (use Appendix 4 as a reference).
- If this project is a Master Plan: Any identified projects should also include information on the MCEA schedule associated with the project.
- The report should provide clear and complete documentation of the planning process in order to allow for transparency in decision-making.
- The Class EA requires the consideration of the effects of each alternative on all aspects of
 the environment (including planning, natural, social, cultural, economic, technical). The
 report should include a level of detail (e.g. hydrogeological investigations, terrestrial and
 aquatic assessments, cultural heritage 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
 report.
- Please include in the report a list of all subsequent permits or approvals that may be required for the implementation of the preferred alternative, including but not limited to, MECP's PTTW, EASR Registrations and ECAs, conservation authority permits, species at risk permits, MTO permits and approvals under the *Impact Assessment Act*, 2019.
- Ministry guidelines and other information related to the issues above are available at http://www.ontario.ca/environment-and-energy/environment-and-energy. We encourage you to review all the available guides and to reference any relevant information in the report.

Amendments to the EAA through the Covid-19 Economic Recovery Act, 2020

Once the EA Report is finalized, the proponent must issue a Notice of Completion providing a minimum 30-day period during which documentation may be reviewed and comment and input can be submitted to the proponent. The Notice of Completion must be sent to the appropriate MECP Regional Office email address (for projects in MECP Eastern Region, the email is eanotification.eregion@ontario.ca.

The public has the ability to request a higher level of assessment on a project if they are concerned about potential adverse impacts to constitutionally protected Aboriginal and treaty rights. In addition, the Minister may issue an order on his or her own initiative within a specified time period. The Director (of the Environmental Assessment Branch) will issue a Notice of Proposed Order to the proponent if the Minister is considering an order for the project within 30 days after the conclusion of the comment period on the Notice of Completion. At this time, the Director may request additional information from the proponent. Once the requested information has been received, the Minister will have 30 days within which to make a decision or impose conditions on your project.

Therefore, the proponent cannot proceed with the project until at least 30 days after the end of the comment period provided for in the Notice of Completion. Further, the proponent may not proceed after this time if:

- a Section 16 Order request has been submitted to the ministry regarding potential adverse impacts to constitutionally protected Aboriginal and treaty rights, or
- the Director has issued a Notice of Proposed order regarding the project.

Please ensure that the Notice of Completion advises that outstanding concerns are to be directed to the proponent for a response, and that in the event there are outstanding concerns regarding potential adverse impacts to constitutionally protected Aboriginal and treaty rights, Section 16 Order requests on those matters should be addressed in writing to:

Minister Jeff Yurek
Ministry of Environment, Conservation and Parks
777 Bay Street, 5th Floor
Toronto ON M7A 2J3
minister.mecp@ontario.ca

and

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



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 documentation;

- clearly articulating the potential impacts of the proposed project on Aboriginal or treaty rights; and
- discussing ways to mitigates 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.

Ministry of the Environment, Conservation and Parks
Species at Risk Branch, Permissions and Compliance
DRAFT - May 2019

Table of Contents

1.0 Purpose, Scope, Background and Context	3
1.1 Purpose of this Guide	3
1.2 Scope	3
1.3 Background and Context	4
2.0 Roles and Responsibilities	5
3.0 Information Sources	6
3.1 Make a Map: Natural Heritage Areas	7
3.2 Land Information Ontario (LIO)	7
3.3 Additional Species at Risk Information Sources	8
3.4 Information Sources to Support Impact Assessments	8
4.0 Check-List	9

1.0 Purpose, Scope, Background and Context

1.1 Purpose of this Guide

This guide has been created to:

- help clients better understand their obligation to gather information and complete a preliminary screening for species at risk before contacting the ministry,
- outline guidance and advice clients can expect to receive from the ministry at the preliminary screening stage,
- help clients understand how they can gather information about species at risk by accessing publicly available information housed by the Government of Ontario, and
- provide a list of other potential sources of species at risk information that exist outside the Government of Ontario.

It remains the client's responsibility to:

- carry out a preliminary screening for their projects,
- obtain best available information from all applicable information sources,
- conduct any necessary field studies or inventories to identify and confirm the presence or absence of species at risk or their habitat,
- consider any potential impacts to species at risk that a proposed activity might cause, and
- comply with the Endangered Species Act (ESA).

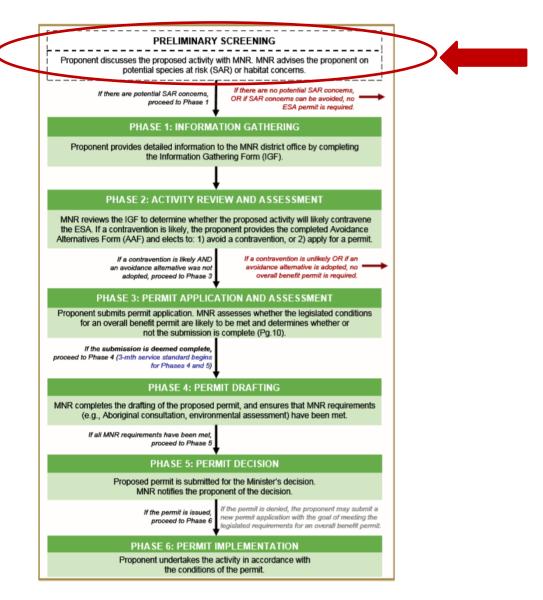
To provide the most efficient service, clients should initiate species at risk screenings and seek information from all applicable information sources identified in this guide, at a minimum, <u>prior to</u> contacting Government of Ontario ministry offices for further information or advice.

1.2 Scope

This guide is a resource for clients seeking to understand if their activity is likely to impact species at risk or if they are likely to trigger the need for an authorization under the ESA. It is not intended to circumvent any detailed site surveys that may be necessary to document species at risk or their habitat nor to circumvent the need to assess the impacts of a proposed activity on species at risk or their habitat. This guide is not an exhaustive list of available information sources for any given area as the availability of information on species at risk and their habitat varies across the province. This guide is intended to support projects and activities carried out on Crown and private land, by private landowners, businesses, other provincial ministries and agencies, or municipal government.

1.3 Background and Context

To receive advice on their proposed activity, clients <u>must first</u> determine whether any species at risk or their habitat exist or are likely to exist at or near their proposed activity, and whether their proposed activity is likely to contravene the ESA. Once this step is complete, clients may contact the ministry at <u>SAROntario@ontario.ca</u> to discuss the main purpose, general methods, timing and location of their proposed activity as well as information obtained about species at risk and their habitat at, or near, the site. At this stage, the ministry can provide advice and guidance to the client about potential species at risk or habitat concerns, measures that the client is considering to avoid adverse effects on species at risk or their habitat and whether additional field surveys are advisable. This is referred to as the "Preliminary Screening" stage. For more information on additional phases in the diagram below, please refer to the *Endangered Species Act Submission Standards for Activity Review and 17(2)(c) Overall Benefit Permits* policy available online at https://www.ontario.ca/page/species-risk-overall-benefit-permits



2.0 Roles and Responsibilities

To provide the most efficient service, clients should initiate species at risk screenings and seek information from all applicable information sources identified in this guide <u>prior to</u> contacting Government of Ontario ministry offices for further information or advice.

Step 1: Client seeks information regarding species at risk or their habitat that exist, or are likely to exist, at or near their proposed activity by referring to all applicable information sources identified in this guide.

Step 2: Client reviews and consider guidance on whether their proposed activity is likely to contravene the ESA (see section 3.4 of this guide for guidance on what to consider).

Step 3: Client gathers information identified in the checklist in section 4 of this guide.

Step 4: Client contacts the ministry at SAROntario@ontario.ca to discuss their preliminary screening. Ministry staff will ask the client questions about the main purpose, general methods, timing and location of their proposed activity as well as information obtained about species at risk and their habitat at, or near, the site. Ministry staff will also ask the client for their interpretation of the impacts of their activity on species at risk or their habitat as well as measures the client has considered to avoid any adverse impacts.

Step 5: Ministry staff will provide advice on next steps.

Option A: Ministry staff may advise the client they can proceed with their activity without an authorization under the ESA where the ministry is confident that:

- no protected species at risk or habitats are likely to be present at or near the proposed location of the activity; or
- protected species at risk or habitats are known to be present but the activity is not likely to contravene the ESA; or
- through the adoption of avoidance measures, the modified activity is not likely to contravene the ESA.

Option B: Ministry staff may advise the client to proceed to Phase 1 of the overall benefit permitting process (i.e. Information Gathering in the previous diagram), where:

- there is uncertainty as to whether any protected species at risk or habitats are present at or near the proposed location of the activity; or
- the potential impacts of the proposed activity are uncertain; or
- ministry staff anticipate the proposed activity is likely to contravene the ESA.

3.0 Information Sources

Land Information Ontario (LIO) and the Natural Heritage Information Centre (NHIC) maintain and provide information about species at risk, as well as related information about fisheries, wildlife, crown lands, protected lands and more. This information is made available to organizations, private individuals, consultants, and developers through online sources and is often considered under various pieces of legislation or as part of regulatory approvals and planning processes.

The information available from LIO or NHIC and the sources listed in this guide should not be considered as a substitute for site visits and appropriate field surveys. Generally, this information can be regarded as a starting point from which to conduct further field surveys, if needed. While this data represents best available current information, it is important to note that a lack of information for a site does not mean that species at risk or their habitat are not present. There are many areas where the Government of Ontario does not currently have information, especially in more remote parts of the province. The absence of species at risk location data at or near your site does not necessarily mean no species at risk are present at that location. Onsite assessments can better verify site conditions, identify and confirm presence of species at risk and/or their habitats.

Information on the location (i.e. observations and occurrences) of species at risk is considered sensitive and therefore publicly available only on a 1km square grid as opposed to as a detailed point on a map. This generalized information can help you understand which species at risk are in the general vicinity of your proposed activity and can help inform field level studies you may want to undertake to confirm the presence, or absence of species at risk at or near your site.

Should you require specific and detailed information pertaining to species at risk observations and occurrences at or near your site on a finer geographic scale; you will be required to demonstrate your need to access this information, to complete data sensitivity training and to obtain a Sensitive Data Use License from the NHIC. Information on how to obtain a license can be found online at https://www.ontario.ca/page/get-natural-heritage-information.

Many organizations (e.g. other Ontario ministries, municipalities, conservation authorities) have ongoing licensing to access this data so be sure to check if your organization has this access and consult this data as part of your preliminary screening if your organization already has a license.

3.1 Make a Map: Natural Heritage Areas

The Make a Natural Heritage Area Map (available online at http://www.gisapplication.lrc.gov.on.ca/mamnh/Index.html?site=MNR_NHLUPS_NaturalHeritage&viewer=NaturalHeritage&locale=en-US provides public access to natural heritage information, including species at risk, without the user needing to have Geographic Information System (GIS) capability. It allows users to view and identify generalized species at risk information, mark areas of interest, and create and print a custom map directly from the web application. The tool also shows topographic information such as roads, rivers, contours and municipal boundaries.

Users are advised that sensitive information has been removed from the natural areas dataset and the occurrences of species at risk has been generalized to a 1-kilometre grid to mitigate the risks to the species (e.g. illegal harvest, habitat disturbance, poaching).

The web-based mapping tool displays natural heritage data, including:

- Generalized Species at risk occurrence data (based on a 1-km square grid),
- Natural Heritage Information Centre data.

Data cannot be downloaded directly from this web map; however, information included in this application is available digitally through Land Information Ontario (LIO) at https://www.ontario.ca/page/land-information-ontario.

3.2 Land Information Ontario (LIO)

Most natural heritage data is publicly available. This data is managed in a large provincial corporate database called the LIO Warehouse and can be accessed online through the LIO Metadata Management Tool at

https://www.javacoeapp.lrc.gov.on.ca/geonetwork/srv/en/main.home. This tool provides descriptive information about the characteristics, quality and context of the data. Publicly available geospatial data can be downloaded directly from this site.

While most data are publicly available, some data may be considered highly sensitive (i.e. nursery areas for fish, species at risk observations) and as such, access to some data maybe restricted.

3.3 Additional Species at Risk Information Sources

- The Breeding Bird Atlas can be accessed online at http://www.birdsontario.org/atlas/index.jsp?lang=en
- eBird can be accessed online at https://ebird.org/home
- iNaturalist can be accessed online at https://www.inaturalist.org/
- The Ontario Reptile and Amphibian Atlas can be accessed online at https://ontarionature.org/programs/citizen-science/reptile-amphibian-atlas
- Your local Conservation Authority. Information to help you find your local Conservation
 Authority can be accessed online at https://conservationontario.ca/conservation-authority/

Local naturalist groups or other similar community-based organizations

- Local Indigenous communities
- Local land trusts or other similar Environmental Non-Government Organizations
- Field level studies to identify if species at risk, or their habitat, are likely present or absent at or near the site.
- When an activity is proposed within one of the continuous caribou ranges, please be sure to consider the caribou Range Management Policy. This policy includes figures and maps of the continuous caribou range, can be found online at https://www.ontario.ca/page/range-management-policy-support-woodland-caribou-conservation-and-recovery

3.4 Information Sources to Support Impact Assessments

- Guidance to help you understand if your activity is likely to adversely impact species at
 risk or their habitat can be found online at https://www.ontario.ca/page/categorizing-and-protecting-habitat-under-endangered-species-act
- A list of species at risk in Ontario is available online at
 https://www.ontario.ca/page/species-risk-ontario. On this webpage, you can find out more about each species, including where is lives, what threatens it and any specific habitat protections that apply to it by clicking on the photo of the species.

4.0 Check-List

Please feel free to use the check list below to help you confirm you have explored all applicable information sources and to support your discussion with Ministry staff at the preliminary screening stage.

	ing stage.
✓	Land Information Ontario (LIO)
✓	Natural Heritage Information Centre (NHIC)
✓	The Breeding Bird Atlas
✓	eBird
✓	iNaturalist
✓	Ontario Reptile and Amphibian Atlas
✓	List Conservation Authorities you contacted:
✓	List local naturalist groups you contacted:
√	List local Indigenous communities you contacted:
	Ziot local malgeneus communico you contactou.
√	List any other local land trusts or Environmental Non-Government Organizations you
	contacted:
✓	List and field studies that were conducted to identify species at risk, or their habitat, likely
	to be present or absent at or near the site:
✓	List what you think the likely impacts of your activity are on species at risk and their
	habitat (e.g. damage or destruction of habitat, killing, harming or harassing species at
	risk):

MECP EMAIL THREAD: Initial MECP Contact and Project Information Form

From: Nicolas Bialik

Sent: Thursday, December 2, 2021 11:58 AM

To: Orpana, Jon (MECP)

Cc: Jordan Morrissette; JGendron@alfred-plantagenet.com

Subject: RE: Plantagenet Wastewater Schedule 'C' Class EA Consultation - Notice of Study

Commencement

Attachments: streamlined_ea_project_information_form_Plantagenet WW Class EA.xlsx

Hi Jon,

Find attached completed form. If there's any other information you require, please let us know.

Thanks, Nick

From: Orpana, Jon (MECP) < Jon. Orpana@ontario.ca>

Sent: Thursday, December 2, 2021 11:36 AM **To:** Nicolas Bialik <nbialik@jlrichards.ca>

Subject: Plantagenet Wastewater Schedule 'C' Class EA Consultation - Notice of Study Commencement

[CAUTION] This email originated from outside JLR. Do not click links or open attachments unless you recognize the sender and know the content is safe. If in doubt, please forward suspicious emails to Helpdesk.

Hello Nicolas

I was forwarded your Notice of Commencement for the above mentioned project. I will be your projects one window contact as the Regional Environmental Planner here in Kingston, Ontario. We also require a copy of the EXCEL Project Information Form to be populated. It informs an internal tracking system that we have for all Class EA projects in the province.

If you don't have access to a copy of the form...one is attached.

Thanks in advance.

Jon

Jon K. Orpana
Regional Environmental Planner
Environmental Assessment Branch
Ministry of the Environment, Conservation and Parks
Kingston Regional Office
PO Box 22032, 1259 Gardiners Road
Kingston, Ontario
K7M 8S5

What to do:

What to do:

Step 1: Look for the type of EA project in column B that applies to you.

Step 2: Complete columns C to J for that project.

Step 3: Send this form in Excel format to the MECP regional office email address where the project is located.

MECP regional office email addresses are listed at

	www.ontano.ca/page/pietpaning-environmental-assessments								
	Class EA/Streamlined EA	Proponent Name	Proponent Contact	Project Name	Project Schedule	Project Type	Project Location	MOECC Region	Project Initiation Date
1	CO - Remedial flood and erosion control projects								
2	GO Transit - Class EA								
3	Hydro One - Minor transmission facilities								
4	MEA - Class EA for municipal infrastructure projects	Township of Alfred and Plantagenet (Owner/Client) J.L. Richards & Associates Limited (Consultant)	Jonathan Gendron (Township) Jordan Morrissette (JLR)	Plantagenet Wastewater System Schedule C Class Environmental Assessment	Schedule C	Municipal water and wastewater projects	Alfred and Plantagenet, Township of	Eastern	12/2/2021
5	Ministry of Infrastructure - Public work								
6	MNDM - Activities of the Ministry of Northern Development and Mines under the Mining Act								
7	MNRF - Provincial parks and conservation reserves								
8	MNRF - Resource stewardship and facility development projects								
9	MTO - Provincial transportation facilities								
10	O. Reg. 101/07 - Waste management projects								
11	O. Reg. 116/01 - Electricity projects								
12	OWA - Waterpower projects								

Enter the proponent's name.

This should be the same contact person who is listed on the notice.

Enter the name and email address of the person who the MECP appears on the notice. Should contact about your project.

Select the name of the municipality or unorganized/unsurveyed area where your project is located from the drop-down menu.

Select the MECP region from the drop- streamlined EA process down menu. Read of the "MECP regions" commencement). This date worksheet to find the MECP region to the MECP region to the MECP region. where your project is located.

MCM DISCUSSIONS: Response Letter and Study Correspondences (Notices and Reports)

From: Camila Valcarcel <cvalcarcel@jlrichards.ca>

Sent: Friday, October 20, 2023 1:57 PM

To: karla.barboza@ontario.ca

Cc: JGendron@alfred-plantagenet.com; Jordan Morrissette; Nicolas Bialik

Subject: Plantagenet Wastewater Schedule 'C' Class EA Consultation - Phase 2 Report

Attachments: Mimecast Large File Send Instructions

I'm using Mimecast to share large files with you. Please see the attached instructions.

Hi Karla,

Please find attached Phase 2 Report.

Should you have any questions or comments, please let us know.

Thanks,

From: Camila Valcarcel

Sent: Friday, October 20, 2023 1:53 PM

To: karla.barboza@ontario.ca

Cc: Nicolas Bialik; Jordan Morrissette; JGendron@alfred-plantagenet.com

Subject: Plantagenet Wastewater Schedule 'C' Class EA Consultation - Notice of PIC No. 2

Attachments: 31457 - Plantagenet Class EA - PIC2_Karla Barboza.pdf

Hello Karla,

Please find attached letter and notice of Public Information Centre (PIC) No. 2 for the Plantagenet Wastewater Class Environmental Assessment (EA). As a key stakeholder for this study, you are invited to attend the PIC, which is occurring November 6, 2023 between 6pm – 8pm in Plantagenet, Ontario. Additional details on the PIC and on study progress are provided in the attached letter and notice.

Should you have any questions or feedback, please do not hesitate to respond to this email or contact either of the two (2) project contacts found in the attached notice.

We look forward to hearing from you.

Regards,

From: Nicolas Bialik

Sent: Friday, April 28, 2023 9:39 AM **To:** karla.barboza@ontario.ca

Cc: Jordan Morrissette; JGendron@alfred-plantagenet.com

Subject: Plantagenet Wastewater Schedule 'C' Class EA Consultation - Phase 1 Report

Large File Send

Sent Files



You shared files with <u>karla.barboza@ontario.ca</u> <u>jmorrissette@jlrichards.ca</u> <u>JGendron@alfred-plantagenet.com</u>.

File(s):

31457_Plantagenet WW Class EA_Phase 1 Report_0_Stamped.pdf 31457_Plantagenet WW Class EA_Phase 1 Report_Appendix E.pdf

Hi Karla,

Please find attached Phase 1 Report.

Should you have any questions or comments, please let us know.

Thanks,

From: Barboza, Karla (MCM) < Karla.Barboza@ontario.ca>

Sent: Monday, May 8, 2023 5:09 PM

To: Nicolas Bialik

Cc: Jordan Morrissette; JGendron@alfred-plantagenet.com

Subject: FW: MHSTCI Letter - Township of Alfred-Plantagenet Plantagenet Wastewater Class

Environmental Assessment

Attachments: 31457 - Plantagenet Class EA _Karla_Barboza.pdf

Hi Nicolas,

Thanks for sending the PIC notice and the Project Information Form (PIF) number for the Stage 1 archaeological assessment. I have linked our internal files and note that the licensed archaeologist submitted the report for MCM's review.

Kind regards, Karla

Karla Barboza, RPP, MCIP, CAHP

Team Lead, Heritage | Heritage Planning Unit | Ministry of Citizenship and Multiculturalism | 416-660-1027 | karla.barboza@ontario.ca

From: Nicolas Bialik <nbialik@jlrichards.ca>

Sent: April-28-23 9:07 AM

To: Barboza, Karla (MCM) < Karla. Barboza@ontario.ca>

Cc: Jordan Morrissette < jmorrissette@jlrichards.ca>; JGendron@alfred-plantagenet.com

Subject: RE: MHSTCI Letter - Township of Alfred-Plantagenet Plantagenet Wastewater Class Environmental Assessment

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

Hi Karla,

The Phase 1 Report (two attachments) for the above-noted study will be sent to you in a separate email for your review. Note that the Stage 1 Archaeological Assessment Study Report and Desktop Cultural Heritage Assessment Report are summarized in Section 4.5 and Section 9, and the full study reports are available in Appendix H and I, respectively.

The PIF Number for the Stage 1 Archaeological Assessment is #P007-1319-202.

Note that Public Information Centre (PIC) No. 1, which you are invited to attend, is being held on May 10, 2023 between 6pm – 8pm in Plantagenet, Ontario. Additional details on the PIC and on study progress are provided in the attached letter and notice.

Should you have any comments or questions, please do not hesitate to respond to this email or contact either of the two (2) project contacts found in the attached notice.

Regards,

Nicolas Bialik, P.Eng. Environmental Engineer

J.L. Richards & Associates Limited





From: Barboza, Karla (MCM) < Karla.Barboza@ontario.ca>

Sent: Wednesday, April 12, 2023 10:07 AM **To:** Nicolas Bialik < nbialik@jlrichards.ca>

Cc: Jordan Morrissette <imorrissette@ilrichards.ca>; JGendron@alfred-plantagenet.com

Subject: RE: MHSTCI Letter - Township of Alfred-Plantagenet Plantagenet Wastewater Class Environmental Assessment

Hi Nicolas,

Thanks for your response and update on the Plantagenet Wastewater Class Environmental Assessment.

Your letter indicates that a Stage 1 archaeological assessment has been undertaken by ARA for the study area. Could you please send us the Project Information Form number of that assessment? This will help us to link internally.

We look forward to reviewing the Phase 1 Report and associated technical studies.

Thanks again, Karla

Karla Barboza, RPP, MCIP, CAHP

Team Lead, Heritage | Heritage Planning Unit | Ministry of Citizenship and Multiculturalism | 416-660-1027 | karla.barboza@ontario.ca

From: Nicolas Bialik < nbialik@jlrichards.ca>

Sent: March-29-23 11:25 AM

To: Barboza, Karla (MCM) < Karla. Barboza@ontario.ca>

Cc: Jordan Morrissette < jmorrissette@jlrichards.ca>; JGendron@alfred-plantagenet.com

Subject: RE: MHSTCI Letter - Township of Alfred-Plantagenet Plantagenet Wastewater Class Environmental Assessment

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

Hi Karla,

Please find attached letter in response to your letter with preliminary MTCS comments. Should you have any questions or comments, please let us know.

Note that we are in the process of finalizing the Phase 1 Report for this study, and will provide the report to the MTCS once finalized. The Phase I Report will include as appendices, the final Stage 1 Archaeological Study Report and final Cultural Heritage Assessment Report.

Regards,

Nicolas Bialik, P.Eng. Environmental Engineer

J.L. Richards & Associates Limited





From: Mallon, Jack (MHSTCI) < Jack.Mallon@ontario.ca>

Sent: Friday, December 31, 2021 12:07 PM

To: Jordan Morrissette < jmorrissette@jlrichards.ca>

Cc: JGendron@alfred-plantagenet.com; Barboza, Karla (MHSTCI) < Karla.Barboza@ontario.ca>

Subject: MHSTCI Letter - Township of Alfred-Plantagenet Plantagenet Wastewater Class Environmental Assessment

[CAUTION] This email originated from outside JLR. Do not click links or open attachments unless you recognize the sender and know the content is safe. If in doubt, please forward suspicious emails to Helpdesk.

Good afternoon Jordan,

Please see the attached MHSTCI letter for the Notice of Commencement of the Township of Alfred-Plantagenet Plantagenet Wastewater Class Environmental Assessment.

Do not hesitate to contact me if you have any questions.

Best,

Jack Mallon

Heritage Planner

Heritage Planning Unit | Programs and Services Branch

Heritage, Tourism and Culture Division

Ministry of Heritage, Sport, Tourism and Culture Industries

J.L.Richards
ENGINEERS · ARCHITECTS · PLANNERS

J.L. Richards & Associates Limited 343 Preston Street Tower II, Suite 1000 Ottawa Ontario K1S 1N4 613 728 3571 www.jlrichards.ca

March 29, 2023

Our File No.: 31457-000

VIA: E-MAIL

Karla Barboza
Team Lead – Heritage, Heritage Planning Unit
Ministry of Tourism, Culture and Sport
400 University Avenue, 5th Floor
Toronto, ON M7A 2R9

Dear Ms. Barboza:

Re: Township of Alfred and Plantagenet, Plantagenet Wastewater Class EA, Response to December 31, 2021, Letter (File No. 001580)

Thank you for your interest in this project. In response to Jack Mallon's letter dated December 31, 2021 (attached), we offer the following information.

ARCHAEOLOGICAL RESOURCES

Archaeological resources will be considered as part of this Class Environmental Assessment (Class EA). Known archeological resources identified in past studies will be documented in the Phase 1 Report. Please also note that a Stage 1 Archeological Assessment has been undertaken by Archaeological Research Associates Ltd. (ARA) for the study area. Findings and mitigations strategies will be documented in the Environmental Study Report.

BUILT HERITAGE RESOURCES AND CULTURAL HERITAGE LANDSCAPES

Known heritage resources and landscapes identified in past studies will be documented in the Phase 1 Report. ARA has also been retained to complete a Cultural Heritage Assessment for the study area. The assessment will include the creation of a heritage inventory, the evaluation of the value or interest of each potential heritage resource, the evaluation of potential project impacts, and suggestions on mitigation strategies. All findings from the assessment will be documented in the Environmental Study Report. Note that the Algonquins of Ontario and Kitigan Zibi Anishinabeg communities are being consulted as part of this Class EA.

If there are any questions regarding the above, please contact the undersigned.

Yours very truly,

J.L. RICHARDS & ASSOCIATES LIMITED

Prepared by:

Jordan Morrissette, M.Eng., P.Eng.

Associate, Senior Environmental Engineer



Ministry of Heritage, Sport, Tourism and Culture Industries

Programs and Services Branch 400 University Ave, 5th Flr Toronto, ON M7A 2R9 Tel: 437-522-6582

Ministère des Industries du Patrimoine, du Sport, du Tourisme et de la Culture

Direction des programmes et des services 400, av. University, 5e étage Toronto, ON M7A 2R9 Tél: 437-522-6582



December 31, 2021

EMAIL ONLY

Jordan Morrissette, M.Eng., P.Eng. Environmental Engineer J.L. Richards & Associates Limited imorrissette@ilrichards.ca

MHSTCI File : 0015880

Proponent : Township of Alfred-Plantagenet Subject : Notice of Commencement

Project : Township of Alfred-Plantagenet Plantagenet Wastewater Class

Environmental Assessment Alfred-Plantagenet, Ontario

Dear Jordan Morrissette:

Location

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

- archaeological resources, including land 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 known (previously recognized) and potential cultural heritage resources.

Project Summary

The Township of Alfred-Plantagenet has initiated a Class Environmental Assessment (Class EA) to determine the most suitable expansion(s) and/or upgrade(s) to the Plantagenet wastewater system to effectively convey and treat wastewater generated from the existing service area and potential additional flows from future development. The Plantagenet wastewater system consists of a network of sanitary sewers, two (2) sewage pumping stations, and a lagoon treatment system discharging treated effluent to the South Nation River.

Identifying Cultural Heritage Resources

While some cultural heritage resources may have already been formally identified, others may be identified through screening and evaluation.

Archaeological Resources

This EA project may impact archaeological resources and should be screened using the MHSTCI Criteria for Evaluating Archaeological Potential and Criteria for Evaluating Marine Archaeological Potential to determine if an archaeological assessment is needed. MHSTCI archaeological sites data are available at archaeology @ontario.ca. If the EA project area exhibits archaeological potential, then an archaeological assessment (AA) should be undertaken by an archaeologist licenced under the *Ontario Heritage Act (OHA)*, who is responsible for submitting the report directly to MHSTCI for review.

Built Heritage Resources and Cultural Heritage Landscapes

A Cultural Heritage Report: Existing Conditions and Preliminary Impact Assessment will be undertaken for the entire study area during the planning phase and will be summarized in the EA Report. This study will:

- Describe the existing baseline cultural heritage conditions within the study area by identifying all known or potential built heritage resources and cultural heritage landscapes, including a historical summary of the study area. MHSTCI has developed screening criteria that may assist with this exercise: <u>Criteria for Evaluating for Potential Built Heritage</u> Resources and Cultural Heritage Landscapes.
- 2. <u>Identify preliminary potential project-specific impacts</u> on the known and potential built heritage resources and cultural heritage landscapes that have been identified. The report should include a description of the anticipated impact to each known or potential built heritage resource or cultural heritage landscape that has been identified.
- 3. Recommend measures to avoid or mitigate potential negative impacts to known or potential built heritage resources and cultural heritage landscapes. The proposed mitigation measures are to inform the next steps of project planning and design.

Given that this project covers a large study area, MHSTCI recommends that the Cultural Heritage Report is carried out so that step 1 described above is undertaken early in the planning process. Then, steps 2 and 3 can be undertaken once the preferred alternatives have been selected.

Cultural Heritage Reports will be undertaken by a qualified person who has expertise, recent experience, and knowledge relevant to the type of cultural heritage resources being considered and the nature of the activity being proposed.

Community input should be sought to identify locally recognized and potential cultural heritage resources. Sources include, but are not limited to, municipal heritage committees, historical societies and other local heritage organizations.

Cultural heritage resources are often of critical importance to Indigenous communities. 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 them.

Environmental Assessment Reporting

All technical cultural heritage studies and their recommendations are to be addressed and incorporated into EA projects. Please advise MHSTCI whether any technical cultural heritage studies will be completed for this EA project, and provide them to MHSTCI before issuing a Notice of Completion or commencing any work on the site. If 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 MHSTCI on this project and please continue to do so throughout the EA process. If you have any questions or require clarification, please do not hesitate to contact me.

Sincerely,

Jack Mallon Heritage Planner Jack.Mallon@Ontario.ca

Copied to:

Jonathan Gendron, Engineer, Township of Alfred-Plantagenet - JGendron@alfred-plantagenet.com Karla Barboza, Team Lead, Heritage Planning Unit, MHSTCI – Karla.Barboza@ontario.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. MHSTCI 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 MHSTCI 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 MHSTCI 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, MHSTCI 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*.

MNRF FINAL CORRESPONDENCES: PIC No. 2, Reports and Contact

From: Camila Valcarcel

Sent: Monday, October 23, 2023 9:26 AM

To: Adams, Tracy (She/Her) (MNRF); Worth, Adam (He/Him) (MNRF)

Cc: JGendron@alfred-plantagenet.com; Nicolas Bialik; Jordan Morrissette

Subject: RE: Plantagenet Wastewater Schedule 'C' Class EA Consultation - Phase 2 Report

Hi Tracy,

Thank you for letting me know. I will update our records and forward all past correspondence to Adam.

Regards, Camila

From: Adams, Tracy (She/Her) (MNRF) < Tracy. Adams 2@ontario.ca>

Sent: Monday, October 23, 2023 9:20 AM

To: Camila Valcarcel <cvalcarcel@jlrichards.ca>; Worth, Adam (He/Him) (MNRF) <Adam.Worth@ontario.ca>

Cc: JGendron@alfred-plantagenet.com; Nicolas Bialik <nbialik@jlrichards.ca>; Jordan Morrissette

<imorrissette@ilrichards.ca>

Subject: RE: Plantagenet Wastewater Schedule 'C' Class EA Consultation - Phase 2 Report

[CAUTION] This email originated from outside JLR. Do not click links or open attachments unless you recognize the sender and know the content is safe. Do not forward suspicious emails, if you are unsure, please send a separate message to Helpdesk.

Hi Camila,

Adam Worth is the District Manager for this area – I've copied him on this correspondence.

Tracy

Tracy Adams (she/her)

District Manager, Peterborough - Bancroft, Southern Region

Regional Operations Division

Ministry of Natural Resources and Forestry

Peterborough Work Center -1st Flr S, 300 Water St, Peterborough, ON K9J 3C7

Bancroft Work Center - 106 Monck St, PO Box 500, Bancroft, ON K0L 1C0

T: (613) 847-5116 | tracy.adams2@ontario.ca

To report a non-emergency bear encounter please call Bear Wise Reporting line at 1-866-514-2327

Please Note: As part of providing <u>accessible customer service</u>, please let me know if you have any accommodation needs or require communication supports or alternate formats.

My working hours may be different from yours; please do not feel obligated to respond to my email outside of your working hours.



From: Camila Valcarcel < cvalcarcel@jlrichards.ca>

Sent: October 23, 2023 9:16 AM

To: Adams, Tracy (She/Her) (MNRF) < Tracy.Adams2@ontario.ca>

Cc: JGendron@alfred-plantagenet.com; Nicolas Bialik <nbialik@jlrichards.ca>; Jordan Morrissette

<jmorrissette@jlrichards.ca>

Subject: Plantagenet Wastewater Schedule 'C' Class EA Consultation - Phase 2 Report

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

I'm using Mimecast to share large files with you. Please see the attached instructions.

Good morning Tracy,

Please find attached Phase 2 Report.

Should you have any questions or comments, please let us know.

Thanks,

Camila Valcarcel, EIT

Environmental Engineering Intern

J.L. Richards & Associates Limited 314 Countryside Drive, Sudbury, ON P3E 6G2 Direct: 705-806-4404





From: Camila Valcarcel

Sent: Friday, October 20, 2023 1:58 PM

To: tracy.adams2@ontario.ca

Cc: Jordan Morrissette; JGendron@alfred-plantagenet.com; Nicolas Bialik

Subject: Plantagenet Wastewater Schedule 'C' Class EA Consultation - Notice of PIC No. 2

Attachments: 31457 - Plantagenet Class EA - PIC2_Tracy Adams.pdf

Hi Tracy,

Please find attached letter and notice of Public Information Centre (PIC) No. 2 for the Plantagenet Wastewater Class Environmental Assessment (EA). As a key stakeholder for this study, you are invited to attend the PIC, which is occurring November 6, 2023 between 6pm – 8pm in Plantagenet, Ontario. Additional details on the PIC and on study progress are provided in the attached letter and notice.

Should you have any questions or feedback, please do not hesitate to respond to this email or contact either of the two (2) project contacts found in the attached notice.

We look forward to hearing from you.

Regards,

MNRF EMAIL THREAD: PIC No. 1 Response Letter

From: Nicolas Bialik

Sent: Friday, July 14, 2023 1:12 PM

To: Warren, Catherine (She/Her) (MNRF)

Cc: Jordan Morrissette; JGendron@alfred-plantagenet.com

Subject: RE: Plantagenet Wastewater Schedule 'C' Class EA Consultation - Notice of PIC No. 1

Attachments: Plantagenet WW Class EA_MNRF Letter Response (PIC1).pdf

Hi Catherine,

Thank you for your letter. Please find attached letter in response.

Should you have any questions, please let us know.

Thank you,

From: Warren, Catherine (She/Her) (MNRF) < Catherine. Warren@ontario.ca>

Sent: Thursday, May 11, 2023 9:51 AM **To:** Nicolas Bialik <nbialik@jlrichards.ca>

Cc: Jordan Morrissette < jmorrissette@jlrichards.ca>; JGendron@alfred-plantagenet.com **Subject:** RE: Plantagenet Wastewater Schedule 'C' Class EA Consultation - Notice of PIC No. 1

[CAUTION] This email originated from outside JLR. Do not click links or open attachments unless you recognize the sender and know the content is safe. If in doubt, please forward suspicious emails to Helpdesk.

Hello Nicolas, Jordan and Jonathan,

Thank you for circulating your EA notice to my office. I'm sorry I did not respond before PIC #1. Attached are some information sources to use to consider aspects of the project such as natural heritage and natural hazards. There is also information on how to get MNRF licences or permits should they be required.

Please let me know if you have any questions about this.

Thanks, Catherine

From: Nicolas Bialik <nbialik@jlrichards.ca>

Sent: April 28, 2023 9:45 AM

To: Adams, Tracy (MNRF) < Tracy. Adams 2@ontario.ca >

Cc: Jordan Morrissette < <u>imorrissette@jlrichards.ca</u>>; <u>JGendron@alfred-plantagenet.com</u> **Subject:** Plantagenet Wastewater Schedule 'C' Class EA Consultation - Notice of PIC No. 1

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

Hi Tracy,

Please find attached letter and notice of Public Information Centre (PIC) No. 1 for the Plantagenet Wastewater Class Environmental Assessment (EA). As a key stakeholder for this study, you are invited to attend the PIC, which is occurring May 10, 2023 between 6pm – 8pm in Plantagenet, Ontario. Additional details on the PIC and on study progress are provided in the attached letter and notice.

Should you have any questions or feedback, please do not hesitate to respond to this email or contact either of the two (2) project contacts found in the attached notice.

We look forward to hearing from you.

Regards,

Nicolas Bialik, P.Eng. Environmental Engineer

J.L. Richards & Associates Limited 1000-343 Preston Street, Ottawa, ON K1S 1N4 Direct: 343-804-5346





NOTE: Natural Environment Study Report not included in Appendix A.



J.L. Richards & Associates Limited 343 Preston Street Tower II, Suite 1000 Ottawa Ontario K1S 1N4 613 728 3571 www.jlrichards.ca

July 14, 2023

Our File No.: 31457-000

VIA: E-MAIL

Catherine Warren Regional Planner Ministry of Natural Resources and Forestry 300 Water Street, 4th Floor Peterborough, ON K9J 3C7

Dear Ms. Warren:

Re: Township of Alfred and Plantagenet, Plantagenet Wastewater Class EA, Response to MNRF Letter (dated May 11, 2023)

We confirm receipt of your letter dated May 11, 2023 (attached) and offer the following in response:

NATURAL HERITAGE

A Natural Environment Study (NES) was completed by Bowfin Environmental Consulting (Bowfin) (April 2022) during Phase 1 of the Class EA. As part of the NES, Bowfin reviewed databases from the Land Information Ontario (LIO) website and reviewed the province's make-a-map online tool. Through their review, they identified the following natural feature:

• Unnamed tributary to the South Nation River with fish habitat running along the south edge of the lagoon site and continuing into the adjacent lands towards the south.

For more information on their review and on the unnamed tributary, please refer to the Natural Environment Report attached to this letter. This Natural Environment Report is appended to the Phase 1 Report as Appendix G. Please inform us if the Ministry of Natural Resources and Forestry (MNRF) would like a copy of the Phase 1 Report.

NATURAL HAZARDS

The availability of natural hazard technical guides is noted. The risk of increased flooding occurrences due to climate change is identified within the Phase 2 Report. The Plantagenet sewage pumping stations are in the vicinity of a flood plain. A recommendation will be added to the Environmental Study Report (ESR) to reference these guides in designing the ultimate preferred solution and concept for these sewage pumping stations.



July 14, 2023 Our File No.: 31457-000 J.L.Richards
ENGINEERS · ARCHITECTS · PLANNERS

Catherine Warren, Ministry of the Environment, Conservation and Parks

FISH AND WILDLIFE CONSERVATION ACT

If an expansion of the existing lagoon treatment system is part of the ultimate preferred solution, the unnamed tributary to the South Nation River will likely need to be relocated as part of construction in consultation with the Department of Fisheries and Oceans Canada (DFO). Depending on construction timing and water levels in the South Nation River, the relocation of fish outside of the work area may be required. Wording will be added in the ESR stating that if a relocation of fish is required, the Contractor will need to apply for a Licence to Collect Fish for Scientific Purposes under the *Fish and Wildlife Conservation Act*.

The relocation of wildlife outside of the work area is not anticipated to be required during construction of any of the preferred solutions, but similar wording will be added in the ESR stating that if the relocation of wildlife is required, the Contractor will need to apply for a Wildlife Collector's Authorization under the *Fish and Wildlife Conservation Act*.

PUBLIC LANDS ACT & LAKES AND RIVERS IMPROVEMENT ACT

The current project is not subject to the provisions of the *Public Lands Act* or the *Lakes and River Improvement Act*.

FUTURE CONSULTATION

Given the identification of a natural heritage feature within the study area and the potential for the re-location of a fish habitat and/or fish, subsequent project notices will continue to be provided to the MNRF.

If there are any questions regarding the above, please contact the undersigned.

Yours very truly,

J.L. RICHARDS & ASSOCIATES LIMITED

Biolik

Prepared by:

Reviewed by:

Nicolas Bialik, P.Eng. Environmental Engineer Jordan Morrissette, M.Eng., P.Eng. Associate, Senior Environmental Engineer

Jorda Monssell

NB/JM:nb

Cc: Jonathan Gendron, P.Eng., Township of Alfred and Plantagenet





May 11, 2023

Dear Jordan Morrissette and Jonathan Gendron,

SUBJECT: Township of Alfred and Plantagenet, Plantagenet Wastewater System Schedule 'C' Municipal Class Environmental Assessment

The Ministry of Natural Resources and Forestry (MNRF) received the Township of Alfred and Plantagenet, Plantagenet Wastewater System Schedule 'C' Municipal Class Environmental Assessment, dated April 27, 2023. Thank you for circulating this to our office. Please note that we have not competed a screening of natural heritage or other resource values for the project at this time. This response, however, does provide information to guide you in identifying and assessing natural features and resources as required by applicable policies and legislation, as well as engaging with the ministry for advice as needed.

Please also note that it is the proponent's responsibility to be aware of, and comply with, all relevant federal or provincial legislation, municipal by-laws or other agency approvals.

Natural Heritage

MNRF's natural heritage and natural resources GIS data layers can be obtained through the ministry's <u>Land Information Ontario (LIO)</u> website. You may also view natural heritage information online (e.g., Provincially Significant Wetlands, ANSI's, woodlands, etc.) using the <u>Make a Map: Natural Heritage Areas</u> tool. We recommend that you use the above-noted sources of information during the review of your project proposal.

Natural Hazards

A series of natural hazard technical guides developed by MNRF are available to support municipalities and conservation authorities implement the natural hazard policies in the Provincial Policy Statement (PPS). For example, standards to address flood risks and the potential impacts and costs from riverine flooding are addressed in the *Technical Guide River* and *Stream Systems: Flooding Hazard Limit (2002)*. We recommend that you consider these technical guides as you assess specific improvement projects that can be undertaken to reduce the risk of flooding.

Fish and Wildlife Conservation Act

Please note, that should the project require:

 The relocation of fish outside of the work area, a Licence to Collect Fish for Scientific Purposes under the Fish and Wildlife Conservation Act will be required. • The relocation of wildlife outside of the work area (including amphibians, reptiles, and small mammals), a Wildlife Collector's Authorization under the *Fish and Wildlife Conservation Act* will be required.

Public Lands Act & Lakes and Rivers Improvement Act

Some projects may be subject to the provisions of the *Public Lands Act* or *Lakes and River Improvement Act*. Please review the information on MNRF's web pages provided below regarding when an approval is, or is not, required. Please note that many of the authorizations under the *Lakes and Rivers Improvement Act* are administered by the local Conservation Authority.

- For more information about the Public Lands Act: https://www.ontario.ca/page/crown-land-work-permits
- For more information about the *Lakes and Rivers Improvement Act*: https://www.ontario.ca/page/lakes-and-rivers-improvement-act-administrative-guide

Please note that proposed works on the bed of Lake Ontario may require authorization under the *Public Lands Act* through a work permit and/or occupational authority.

After reviewing the information provided, if you have not identified any of MNRF's interests stated above, there is no need to circulate any subsequent notices to our office. If you have identified any of MNRF's interests and/or may require permit(s) or further technical advice, please feel free to contact me.

Best Regards,

[original signed by]

Catherine Warren
Regional Planner
Ministry of Natural Resources and Forestry
(705) 772-9012
catherine.warren@ontario.ca

MNRF EMAIL THREAD: New Agency Contact

From: Lee, Scott (NDMNRF) <scott.lee@ontario.ca>
Sent: Thursday, December 2, 2021 10:21 AM

To: Nicolas Bialik

Cc: Jordan Morrissette; JGendron@alfred-plantagenet.com; Handford, Karen (NDMNRF)

Subject: RE: Plantagenet Wastewater Schedule 'C' Class EA Consultation - Notice of Study

Commencement

[CAUTION] This email originated from outside JLR. Do not click links or open attachments unless you recognize the sender and know the content is safe. If in doubt, please forward suspicious emails to Helpdesk.

Hi Nicolas,

By copy of this I'm moving your request over to Karen Handford who has replaced me in the Operations Supervisor role for Kemptville.

Scott

From: Nicolas Bialik <nbialik@ilrichards.ca>

Sent: December 2, 2021 9:38 AM

To: Lee, Scott (NDMNRF) <scott.lee@ontario.ca>

Cc: Jordan Morrissette < jmorrissette@jlrichards.ca>; JGendron@alfred-plantagenet.com

Subject: Plantagenet Wastewater Schedule 'C' Class EA Consultation - Notice of Study Commencement

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

Hi Scott,

Please find attached letter and Notice of Study Commencement for the Plantagenet Wastewater Class EA, initiated by the Township of Alfred-Plantagenet. You have been identified as a key agency stakeholder for this study, and as such, are part of our mailing list and are invited to provide comments as the study progresses.

Please respond to this email or contact either of the two (2) project contacts found in the attached notice if you wish to be excluded on future project correspondences, or if you have any immediate feedback to provide for the initial phases of the study.

We look forward to hearing from you.

Regards,

Nicolas Bialik, EIT

Environmental Engineering Intern

J.L. Richards & Associates Limited 700 - 1565 Carling Avenue, Ottawa, ON K1Z 8R1 Direct: 343-804-5346

SNC FINAL CORRESPONDENCES PIC No. 2 and Reports

From: Camila Valcarcel <cvalcarcel@jlrichards.ca>

Sent: Friday, October 20, 2023 2:56 PM

To: clemay@nation.on.ca

Cc: Nicolas Bialik; Jordan Morrissette; JGendron@alfred-plantagenet.com

Subject: Plantagenet Wastewater Schedule 'C' Class EA Consultation - Phase 2 Report

Attachments: Mimecast Large File Send Instructions

I'm using Mimecast to share large files with you. Please see the attached instructions.

Hi Claire,

Please find attached Phase 2 Report.

Should you have any questions or comments, please let us know.

Thanks,

From: Camila Valcarcel

Sent: Friday, October 20, 2023 2:51 PM

To: clemay@nation.on.ca

Cc: Nicolas Bialik; Jordan Morrissette; JGendron@alfred-plantagenet.com

Subject: Plantagenet Wastewater Schedule 'C' Class EA Consultation - Notice of PIC No. 2

Attachments: 31457 - Plantagenet Class EA - PIC2_Claire Lemay.pdf

Hi Claire,

Please find attached letter and notice of Public Information Centre (PIC) No. 2 for the Plantagenet Wastewater Class Environmental Assessment (EA). As a key stakeholder for this study, you are invited to attend the PIC, which is occurring November 6, 2023, between 6pm – 8pm in Plantagenet, Ontario. Additional details on the PIC and on study progress are provided in the attached letter and notice.

Should you have any questions or feedback, please do not hesitate to respond to this email or contact either of the two (2) project contacts found in the attached notice.

We look forward to hearing from you.

Regards,

SNC EMAIL THREAD: Total Phosphorous Management Program

From: Ronda Boutz <RBoutz@nation.on.ca>
Sent: Monday, September 25, 2023 10:37 AM

To: Camila Valcarcel

Subject: RE: Plantagenet WW Class EA - Phosphorous Offsetting

[CAUTION] This email originated from outside JLR. Do not click links or open attachments unless you recognize the sender and know the content is safe. Do not forward suspicious emails, if you are unsure, please send a separate message to Helpdesk.

Good morning Camila,

Sorry I missed your call this morning. The total cost is based on annual P discharge target, so it would be your first amount of \$1.25M.

Just to clarify, is your initial annual phosphorus offset of 567.7 kg/yr the amount in excess of the current annual ECA limit? Requirement is to deal with any new or expanded limit, so if you have room within the current loading limit, you could potentially reduce the kg/yr offset required.

Feel free to try calling me back if you need further clarification.

Best, Ronda

From: Camila Valcarcel cvalcarcel@jlrichards.ca **Sent:** Monday, September 25, 2023 10:16 AM **To:** Ronda Boutz cvalcarcel@jlrichards.ca

Subject: RE: Plantagenet WW Class EA - Phosphorous Offsetting

Good morning, Ronda,

Thank you for sending these answers back. In reviewing the program, I still have a question regarding the one-time payment option, and if it is based on the annual phosphorus offset or the total loading expected the based on the total phosphorus to be offset in the total of 20 of design. From our phone conversation I understood that the one-time payment is only based in the one year of phosphorus offsetting, since the payment received will be invested in a capital project that will help reduce the total phosphorus going to the South Nation River.

From a quick calculation our estimated annual offset would be 567.7 kg/year Multiply by a factor of 4:1, that gives 2270.9 kg needing to be offset per year. Based on \$550/kg, that gives us \$1.25M/year. Since the system is being designed for a 20-year program. Would the payment be a total offset of 45,418 kg instead be required, which would equal to \$24.98M?

Thank you so much for taking the time to answer our questions.

Camila

Camila Valcarcel, EIT Environmental Engineering Intern J.L. Richards & Associates Limited 314 Countryside Drive, Sudbury, ON P3E 6G2 Direct: 705-806-4404





From: Ronda Boutz < RBoutz@nation.on.ca>
Sent: Thursday, September 21, 2023 8:25 PM
To: Camila Valcarcel < cvalcarcel@ilrichards.ca>

Subject: RE: Plantagenet WW Class EA - Phosphorous Offsetting

[CAUTION] This email originated from outside JLR. Do not click links or open attachments unless you recognize the sender and know the content is safe. Do not forward suspicious emails, if you are unsure, please send a separate message to Helpdesk.

Hi Camila,

Great talking to you this afternoon, please see below for responses we discussed. I've attached some materials on the program, unfortunately, I don't have a good up to date 1-pager on the program.

- What is the current cost per Kilogram of TP?
 2023 fee is \$550/kg
- Is there currently a ratio in the Plantagenet area (i.e., 4:1 for every 1 Kg increase of TP from the Wastewater treatment system, 4 Kg must be removed from the wastewater)?
 The offset ratio is 4:1
- Do the municipalities that decide to participate under the program, pay for the annual TP discharged above the 204.8 Kg or for the allowance to offset a certain amount as part of the ECA.
 Municipalities can decide to either offset or remove the additional TP (any volume above current ECA limit) to 0 kg/yr.
- 4. What are the current payment options in place to pay for the TP offsetting program?

 Once the municipality has their target set and confirmed by the Ministry, we can calculate the amount for the offset and discuss payment options; we've done 1-3 years for payment in the past.
- 5. Based on your experience. How do municipalities include the Program within the ECA?

 The Ministry will write the requirement to enter into a Total Phosphorus Management Program agreement to offset the target amount (kg/yr) into the ECA.

SNC does not become involved until municipality has their ECA in place, then they just need to contact us. We need the target TP amount, then we can provide a draft agreement and discuss payment options. Agreement will require SNC Board approval, this is a fairly quick turn around, our Board meets monthly, except for July.

If you have any additional questions, please feel free to reach out.

Best, Ronda From: Camila Valcarcel < cvalcarcel@jlrichards.ca
Sent: Wednesday, September 20, 2023 5:01 PM

To: Ronda Boutz < RBoutz@nation.on.ca >

Subject: Plantagenet WW Class EA - Phosphorous Offsetting

External email - if you don't know or can't confirm the identity of the sender, please exercise caution and do not open links or attachments.

Hi Ronda,

I tried calling you today and left you a message. I believe you were on a meeting.

One of our team members had reached out to you last year to find put about the Total Phosphorus Management Program (TPM) at the South Nation River. We are currently going through the Municipal Class EA for a lagoon-based wastewater treatment system for the Village of Plantagenet along the South Nation River. We would like to explore the option of participating in the TPM as part of the Class EA. There are a few questions that we currently have:

- 1. What is the current cost per Kilogram of TP?
- 2. Is there currently a ratio in the Plantagenet area (i.e., 4:1 for every 1 Kg increase of TP from the Wastewater treatment system, 4 Kg must be removed from the wastewater)?
- 3. Do the municipalities that decide to participate under the program, pay for the annual TP discharged above the 204.8 Kg or for the allowance to offset a certain amount as part of the ECA.
- 4. What are the current payment options in place to pay for the TP offsetting program?
- 5. Based on your experience. How do municipalities include the Program within the ECA?

Look forward to hear back from you.

Thank you, Camila

Camila Valcarcel, EIT

Environmental Engineering Intern

J.L. Richards & Associates Limited 314 Countryside Drive, Sudbury, ON P3E 6G2 Direct: 705-806-4404







Ronda Boutz | Secretary-Treasurer

38 Victoria Street, Box 29, Finch, ON K0C 1K0
Tel: 613-984-2948 or 1-877-984-2948 | Fax: 613-984-2872
nation.on.ca | make a donation

Our local environment, we're in it together. Notre environnement local, protégeons-le ensemble.

From: Sandra Mancini <SMancini@nation.on.ca>

Sent: Monday, June 27, 2022 1:38 PM **To:** Nicolas Bialik; Alix Jolicoeur

Cc: Jordan Morrissette

Subject: RE: 31457-000 - Plantagenet WW Class EA - Phosphorous Offsetting

[CAUTION] This email originated from outside JLR. Do not click links or open attachments unless you recognize the sender and know the content is safe. If in doubt, please forward suspicious emails to Helpdesk.

Hi Nicolas,

The contact for the TPM program is Ronda Boutz, Team Lead, Projects. I have cced her in this e-mail.

Best,

Sandra

From: Nicolas Bialik <nbialik@jlrichards.ca>

Sent: June 23, 2022 1:19 PM

To: Alix Jolicoeur <ajolicoeur@nation.on.ca>

Cc: Jordan Morrissette
orrissette@jlrichards.ca>; Sandra Mancini <SMancini@nation.on.ca>

Subject: 31457-000 - Plantagenet WW Class EA - Phosphorous Offsetting

External email - if you don't know or can't confirm the identity of the sender, please exercise caution and do not open links or attachments.

Hi Alix,

My co-workers at JLR suggested I contact you for this request.

We are currently working on the Plantagenet Wastewater Class Environmental Assessment for the expansion of the Plantagenet Wastewater System, and would like some more information on the Total Phosphorous Management program. Some background information is provided below:

- System discharges to the South Nation River
- Receiver was found to be **Policy 2** with respect to TP.
- Maximum allowable loading determined through discussions with the MECP is 204.8 kg/year (561 m3/d @ 1.0 mg/L TP = 561,000 L/d * 1.0 mg/L = 561,000 mg/d * 365 d/yr = 204,765,000 mg/yr = 204.765 kg/yr).

Given that the allowable loading is expected to be very restrictive in the expansion of the system, we were hoping to obtain more information on the TPM program, including if you have a certain formula used to calculate cost/ kg loading offset, if there is a maximum allowable additional loading that can be offset, etc. Any additional information that you can provide would be helpful as well.

Let us know if you need any additional information from us.

SNC EMAIL THREAD: PIC No. 1 Comment Letter and Response

From: Nicolas Bialik

Sent: Friday, July 14, 2023 1:07 PM

To: Claire Lemay

Cc: Planning; Jordan Morrissette; JGendron@alfred-plantagenet.com

Subject: RE: Plantagenet Wastewater Schedule 'C' Class EA Consultation - Notice of PIC No. 1

Attachments: Plantagenet WW Class EA_SNC Letter Response.pdf

Hi Claire.

Please find attached a letter in response to your comments.

Should you have any questions, please let us know.

Thank you,

From: Claire Lemay <clemay@nation.on.ca> Sent: Thursday, May 25, 2023 1:18 PM To: Nicolas Bialik <nbialik@jlrichards.ca>

plantagenet.com

Subject: RE: Plantagenet Wastewater Schedule 'C' Class EA Consultation - Notice of PIC No. 1

Hi,

See attached comments from SNC. My apologies for the delay.

Sincerely, Claire Lemay

From: Claire Lemay

Sent: Thursday, May 11, 2023 2:24 PM **To:** Nicolas Bialik < nbialik@jlrichards.ca >

plantagenet.com

Subject: RE: Plantagenet Wastewater Schedule 'C' Class EA Consultation - Notice of PIC No. 1

Hi Nicolas

It was nice meeting you yesterday too. And thank you to Jordan for walking me through the boards. I will review the report you have sent. Thanks!

Claire

From: Nicolas Bialik <<u>nbialik@jlrichards.ca</u>>
Sent: Thursday, May 11, 2023 10:12 AM
To: Claire Lemay <<u>clemay@nation.on.ca</u>>

 $\textbf{Cc:} \ Planning < \underline{planning@nation.on.ca} >; \ \underline{JGendron@alfred-linearity}; \ \underline{JGendron$

plantagenet.com

Subject: RE: Plantagenet Wastewater Schedule 'C' Class EA Consultation - Notice of PIC No. 1

I'm using Mimecast to share large files with you. Please see the attached instructions.

Hi Claire.

It was nice to meet you yesterday at the PIC.

Please find attached the Phase 1 Report for your consideration. We will provide you with the Phase 2 Report once it is finalized.

If you have any comments on the Phase 1 Report or on PIC No. 1, please let us know.

Thanks,

Nicolas Bialik, P.Eng. Environmental Engineer

J.L. Richards & Associates Limited 1000-343 Preston Street, Ottawa, ON K1S 1N4 Direct: 343-804-5346





From: Claire Lemay < clemay@nation.on.ca > Sent: Tuesday, May 2, 2023 3:05 PM

To: Jordan Morrissette <i morrissette@jlrichards.ca>; JGendron@alfred-plantagenet.com

Cc: Planning <planning@nation.on.ca>; Nicolas Bialik <nbialik@jlrichards.ca>

Subject: RE: Plantagenet Wastewater Schedule 'C' Class EA Consultation - Notice of PIC No. 1

[CAUTION] This email originated from outside JLR. Do not click links or open attachments unless you recognize the sender and know the content is safe. If in doubt, please forward suspicious emails to Helpdesk.

Good afternoon,

Would it be possible to provide additional information about the proposed alternatives to assist SNC in preparing detailed comments?

Thank you, Claire Lemay

From: Nicolas Bialik < nbialik@jlrichards.ca Sent: Friday, April 28, 2023 9:45 AM

To: Sandra Mancini <SMancini@nation.on.ca>

Cc: Jordan Morrissette < <u>imorrissette@jlrichards.ca</u>>; <u>JGendron@alfred-plantagenet.com</u> **Subject:** Plantagenet Wastewater Schedule 'C' Class EA Consultation - Notice of PIC No. 1

External email - if you don't know or can't confirm the identity of the sender, please exercise caution and do not open links or attachments.

Hi Sandra,

Please find attached letter and notice of Public Information Centre (PIC) No. 1 for the Plantagenet Wastewater Class Environmental Assessment (EA). As a key stakeholder for this study, you are invited to attend the PIC, which is occurring May 10, 2023 between 6pm – 8pm in Plantagenet, Ontario. Additional details on the PIC and on study progress are provided in the attached letter and notice.

Should you have any questions or feedback, please do not hesitate to respond to this email or contact either of the two (2) project contacts found in the attached notice.

We look forward to hearing from you.

Regards,

Nicolas Bialik, P.Eng. Environmental Engineer

J.L. Richards & Associates Limited 1000-343 Preston Street, Ottawa, ON K1S 1N4 Direct: 343-804-5346





Claire Lemay RPP, Senior Planner 38 Victoria Street, Box 29, Finch, ON K0C 1K0 Tel: 613-984-2948 or 1-877-984-2948 Fax: 613-984-2872 nation.on.ca make a donation
Our local environment, we're in it together. Notre environnement local, protégeons-le ensemble.

Celebrating 75 Years of Conservation in 2022 | Célébrer 75 ans de conservation en 2022

J.L.Richards
ENGINEERS · ARCHITECTS · PLANNERS

J.L. Richards & Associates Limited 343 Preston Street Tower II, Suite 1000 Ottawa Ontario K1S 1N4 613 728 3571 www.jlrichards.ca

July 14, 2023 Our File No.: 31457-000

VIA: E-MAIL

Claire Lemay Senior Planner South Nation Conservation 38 rue Victoria Finch, ON K0C 1K0

Dear Ms. Lemay:

Re: Township of Alfred and Plantagenet, Plantagenet Wastewater Class EA, Response to SNC Letter (dated May 25, 2023)

We confirm receipt of your letter dated May 25, 2023, and offer the following in response:

INTERFERENCES WITH WATERCOURSES OR 100-YEAR FLOODPLAIN

It is noted that a permit from the South Nation Conservation (SNC) will be required for any interferences with a watercourse or development within or adjacent to a 100-year floodplain. It is anticipated that a tributary to the South Nation River, which is a fish habitat during the spring, will need to be re-located as part of an expansion to the lagoon treatment system. Wording regarding permitting and consultation requirements will be added to the Environmental Study Report (ESR).

POLICY 2 RECEIVER FOR TOTAL PHOSPHOROUS

It is understood that the South Nation River is a Policy 2 receiver under the Provincial Water Quality Objectives for Total Phosphorous. During Phase 3 of the Class Environmental Assessment (Class EA) process, a review of treatment technologies will be undertaken to assess the ability of the future treatment system to meet effluent criteria. The SNC's Total Phosphorous Management (TPM) program was identified as a potential option for offsetting phosphorous loading if treatment technologies are unable to achieve the required criteria.

DETAILED DESIGN CONSULTATION

It is noted that the SNC would like to be included in correspondences concerning the review of the detailed design. The SNC will continue to be consulted during the Class EA process, and wording regarding SNC consultation requirements during detailed design will be added to the ESR.

If there are any questions regarding the above, please contact the undersigned.



July 14, 2023 Our File No.: 31457-000 J.L.Richards
ENGINEERS · ARCHITECTS · PLANNERS

Claire Lemay, Ministry of the Environment, Conservation and Parks

Yours very truly,

J.L. RICHARDS & ASSOCIATES LIMITED

Prepared by:

MBialik

Nicolas Bialik, P.Eng. Environmental Engineer Reviewed by:

Jordan Morrissette, M.Eng., P.Eng. Associate, Senior Environmental Engineer

Jodn Monssell

NB/JM:nb

Cc: Jonathan Gendron, P.Eng., Township of Alfred and Plantagenet





Via Email Transmission (jmorrissette@jlrichards.ca)

25 May 2023





























Jordan Morrissette
JL Richards & Associates Ltd.
700-1565 Carling Avenue
Ottawa, ON K1Z 8R1

Re: Plantagenet Wastewater Schedule 'C' Municipal Class Environmental Assessment Township of Alfred & Plantagenet

Dear Mr. Morrissette,

Thank you for providing South Nation Conservation (SNC) with the Notice of Public Open House (Information Centre) No. 1.

It is our understanding that the municipality of Alfred & Plantagenet is considering upgrading the wastewater system for the Village of Plantagenet. Phase 1 of the Class EA process has been completed and the study will now focus on evaluating the alternatives.

SNC implements Ontario Regulation 170/06, developed under Section 28 of the *Conservation Authorities Act*. A desktop review of SNC's mapping finds that there is a watercourse located immediately to the south of the existing sewage lagoon and floodplain along the South Nation River in the vicinity of the project area. A permit from SNC will be required for any interference with a watercourse or development within or adjacent to a 100-year floodplain.

Please note, the Ministry of Environment, Conservation and Parks has designated the South Nation River watershed a Policy 2 receiver under the Provincial Water Quality Objectives; there are restrictions on new or expanding wastewater discharges in relation to phosphorus loading. New discharges are required to meet a zero-phosphorus loading either through technology to remove phosphorus prior to discharge or by offsetting non-point source phosphorus loading (via SNC's Total Phosphorus Management Program). Expanding wastewater discharges have the same requirement if the additional phosphorus loading exceeds the annual limit in the current Environmental Compliance Certificate. For additional information, please contact Ronda Boutz at rboutz@nation.on.ca or 613-984-2948.

Please include SNC in the correspondence concerning the review of the detailed design. Correspondence can be directed to me at the address below. Please do not hesitate to contact me if you have any questions or concerns.

Sincerely,

Claire Lemay Senior Planner 613-984-2948 clemay@nation.on.ca

SNC-3335-2023



SNC EMAIL THREAD: New Agency Contact

From: Alison McDonald <AMcdonald@nation.on.ca>

Sent: Monday, December 6, 2021 8:52 AM

To: Nicolas Bialik

Cc: Jordan Morrissette; JGendron@alfred-plantagenet.com; Sandra Mancini

Subject: RE: Plantagenet Wastewater Schedule 'C' Class EA Consultation - Notice of Study

Commencement

[CAUTION] This email originated from outside JLR. Do not click links or open attachments unless you recognize the sender and know the content is safe. If in doubt, please forward suspicious emails to Helpdesk.

Hello,

Sandra Mancini, copied on this email, will be the contact from SNC for this EA. We do wish to receive future correspondences.

Thank you, Alison

From: Nicolas Bialik <nbialik@jlrichards.ca>

Sent: December 2, 2021 9:45 AM

To: Alison McDonald < AMcdonald@nation.on.ca>

Cc: Jordan Morrissette <imorrissette@ilrichards.ca>; JGendron@alfred-plantagenet.com

Subject: Plantagenet Wastewater Schedule 'C' Class EA Consultation - Notice of Study Commencement

External email - if you don't know or can't confirm the identity of the sender, please exercise caution and do not open links or attachments.

Hi Alison.

Please find attached letter and Notice of Study Commencement for the Plantagenet Wastewater Class EA, initiated by the Township of Alfred-Plantagenet. You have been identified as a key agency stakeholder for this study, and as such, are part of our mailing list and are invited to provide comments as the study progresses.

Please respond to this email or contact either of the two (2) project contacts found in the attached notice if you wish to be excluded on future project correspondences, or if you have any immediate feedback to provide for the initial phases of the study.

We look forward to hearing from you.

Regards,

Nicolas Bialik, EIT

Environmental Engineering Intern

J.L. Richards & Associates Limited

MOM EMAIL CORRESPONDENCES Abandoned Mine Buffer Zone

From: Nicolas Bialik

Sent: Friday, April 28, 2023 9:01 AM

To: tracey.burton@ontario.ca; jodie.mcconnell@ontario.ca **Cc:** Jordan Morrissette; JGendron@alfred-plantagenet.com

Subject: Plantagenet Wastewater Schedule 'C' Class EA Consultation - Abandoned Mine Buffer

Zone

Attachments: 31457_Plantagenet WW_NOC_Final_EN_Dec2.pdf; FIGURE 7_ELEMENTS.pdf; 31457 -

Plantagenet Class EA _Tracy_Burton.pdf; 31457 - Plantagenet Class EA

_Jodie_McConnell.pdf

Hi Jodie and Tracy,

During Phase 1 of the above-noted Municipal Class Environmental Assessment (refer to attached Notice of Commencement), it was identified that a large portion of the Plantagenet Wastewater System is situated within the 1km buffer zone of the abandoned Plantagenet Springs mine (AMIS ID 07115, Site Class D), including the wastewater treatment lagoon (575 m south of the abandoned mine) and Sewage Pumping Station No. 1 (630 m south of the abandoned mine). Refer to the attached Figure 7 for the location of the abandoned mine in relation to the existing wastewater system.

We are contacting you because the adopted 2022 Official Plan from United Counties of Prescott and Russell specifies that if development is proposed within 1km from a mine hazard identified in AMIS, the Ministry of Mines should be contacted to "determine the scope and terms of reference of any technical studies that may be required to address the potential mine hazard".

As such, please let us know if the Ministry of Mines has any requirements for the Township in completing the Class EA and proceeding with upgrading the Plantagenet Wastewater System.

Note that Public Information Centre (PIC) No. 1, which you are invited to attend, is being held May 10, 2023 between 6pm – 8pm in Plantagenet, Ontario. Additional details are provided in the attached PIC letter and notice.

Please do not hesitate to respond to this email or contact either of the two (2) project contacts found in the attached notice.

We look forward to hearing from you.

Regards,



Appendix D5

Project Committee Meeting Minutes



Tel: 613 728 3571 Fax: 613 728 6012

Plantagenet Wastewater Class Environmental Assessment TOWNSHIP OF ALFRED & PLANTAGENET

PROJECT INITIATION MEETING

ATTENDANCE: Jonathan Gendron Township of Alfred & Plantagenet (Township)

Maurice Benoit Ontario Clean Water Agency (OCWA)

Sarah Gore J.L. Richards & Associates Limited (JLR)

Jordan Morrissette J.L. Richards & Associates Limited (JLR)

The meeting commenced at 1:00 p.m. on November 3, 2021 Virtually via Microsoft Teams

The following summary of the discussions of this meeting have been prepared to record and direct the project. Please advise the undersigned of any errors or omissions.

<u>ITEM</u> <u>ACTION</u>

1.1 **General Introductions**

A round of general introductions was held, with each participant providing a brief overview of their background and role in the project.

Info

- Jonathan Gendron is a Municipal Engineer and Project Manager and will be the main project contact for the Township.
- Maurice Benoit is OCWA Senior Operations Manager for region and will be OCWA main contact for this project.
- Sarah Gore will be Principal and Technical Advisor for JLR and will provide quality assurance and quality control (QA/QC) of deliverables.
- Jordan Morrissette will be the Project Manager and Class Environmental Assessment (Class EA) Lead for the project, responsible for budget, schedule and delivery.

It was noted that Nicolas Bialik, who has experience with Class EA and Iagoon projects, will be added to the project team to support Jordan on this project. A curriculum vitae for Nicolas will be forwarded to the Township and OCWA for information.

JLR

1.2 **Project Overview**

A brief overview of the project requirements was undertaken by walking through the tasks identified within the detailed schedule. Each phase of the Class EA process was reviewed, and initial key tasks were discussed as per the below.

Info

Phase 1: Problem and Opportunity Identification

Notice of Commencement and Public/Agency Consultation Plan: a draft will be prepared and sent to the Township and OCWA for review.

JLR

Consultation with Planning to Establish Population and Flows: The Township noted that United Counties of Prescott-Russell (UCPR) is currently reviewing developments for the area; however, it is not anticipated that the report will be available for a few months. As such,



Tel: 613 728 3571 Fax: 613 728 6012

Plantagenet Wastewater Class Environmental Assessment TOWNSHIP OF ALFRED & PLANTAGENET

PROJECT INITIATION MEETING

<u>ITEM</u> <u>ACTION</u>

development projections will be determined in consultation with Guylaine Poirier (Township Planner) and Jonathan Gendron. J. Morrissette noted that this is a critical step in the Class EA process. S. Gore added that the development projections are generally endorsed by Council as these projections have a significant impact on projects. Since the projections are a key component of the design basis, if the projections need to be modified later, considerable additional effort could be required.

Since there is no development projections report currently available, it was noted that a figure of the servicing limits of Plantagenet can be prepared and the Township can identify possible development areas within these servicing limits and anticipated development timelines to help determine the flow projections for the Class EA.

JLR/ Township

It was noted that the above step will need to be completed prior to the other tasks within Phase 1, including but not limited to the Assimilative Capacity Study, Design Basis Technical Memorandum and Phase 1 Report.

Phase 2: Alternative Solutions

It was noted that the timing of various site visits and field work that are tasks within Phase 2 will be started during Phase 1. It was noted that hydrogeological field work was discussed by JLR with Thurber (geotechnical/hydrogeological subconsultant) and based on current availability for field drilling programs, it is anticipated that field work will begin in January 2022. An initial design schedule will be submitted to the Township and OCWA for review.

JLR

A brief review of other tasks within Phase 2 to Phase 4 was completed.

1.3 Change Management Protocol

It was explained that if there is work that is requested that is not within the scope of work for this Class EA project, Township and/or JLR will identify the additional work. JLR will prepare a scope change request letter for review by Township and OCWA.

1.4 Exclusions

- J. Morrissette noted that there were a few exclusions noted within the proposal.
 - The abandonment/decommissioning of wells from the geotechnical/hydrogeological field program was not included within the proposal costs; the wells may be useful during design and construction.
 - No daylighting (hydro-excavation) of existing buried utilities was included within the proposal cost.
 - No monitoring/participation fees for First Nation have been included within the proposal cost.



Tel: 613 728 3571 Fax: 613 728 6012

Plantagenet Wastewater Class Environmental Assessment TOWNSHIP OF ALFRED & PLANTAGENET

PROJECT INITIATION MEETING

<u>ITEM</u> <u>ACTION</u>

1.5 Criteria for Acceptance of Final Deliverable

It was agreed that the procedure for acceptance of final deliverables for the Class EA will be based on the following:

Info

- Draft deliverable circulated to Township/OCWA for comment;
- Comments provided by Township/OCWA and added by JLR to Comments Tracking Log;
- JLR Responses added to Comments Tracking Log, deliverable finalized and issued to Township/OCWA:
- E-mail from Township indicating acceptance of final deliverable.

1.6 Correspondence

All communication, including invoicing and reporting, is to be directed to Jonathan Gendron with copy to Maurice Benoit.

All communication to JLR is to be directed to Jordan Morrissette with copy to Nicolas Bialik. J. Morrissette will distribute to others at JLR as needed.

1.7 Public Consultation Plan

A Public Consultation Plan will be prepared and distributed to Township and OCWA. A list of stakeholder/agency contacts will be included as an appendix.

JLR

INFO

1.8 General Discussions of Problems with Existing System

It was noted that the lagoon has been operating above its average day rated capacity. M. Benoit noted that sometimes during discharge the overflow is used; however, this overflow occurs within the seasonal discharge timelines identified within the Environmental Compliance Approval (ECA). The two pumping stations have been upgraded in recent years; new pumps have been installed. It was noted that some repairs to the landings within the pumping stations will be needed. Over the past years, there have been issues achieving the design objectives for carbonaceous oxygen demand (CBOD5) and total suspended solids (TSS). It was noted that there is sometimes more TSS within the last sample of discharge since the lagoons are being emptied as much as possible. Discharge is typically started as soon as possible during the discharge period; ice cover is still present at the time.

It was noted that with an upgraded system and amendment to the ECA, it is anticipated that ammonia will be added to the list of discharge parameters. Ammonia removal will play a key role in the type of treatment that will be needed for an upgraded system.



Tel: 613 728 3571 Fax: 613 728 6012

Plantagenet Wastewater Class Environmental Assessment TOWNSHIP OF ALFRED & PLANTAGENET

PROJECT INITIATION MEETING

<u>ITEM</u> <u>ACTION</u>

1.9 List of Required Documents

A draft list of required documents for the Class EA was reviewed at the meeting. JLR will send out a revised list based on discussion.

JLR

It was noted that as-built information for lagoon, pumping stations, and infrastructure is available.

The Township noted that they have access to GIS through UCPR "A la Carte". JLR to prepare a list of GIS information that would be useful as part of the Class EA and for the specialty investigations such as flow monitoring.

JLR

M. Benoit noted that available influent and effluent quality records were provided with the Request for Proposal (RFP) documents.

It was noted that the closest receiving stream sampling data available is likely from upstream at Casselman.

Batch dosing of alum is completed prior to discharge via a pontoon boat. Annual chemical consumption is approximately 45,000 L to 55,000 L.

Operation & Maintenance Manuals for the lagoon and pumping stations are available.

1.10 Other Business

J. Morrissette noted that a sampling program for the lagoon during all months of the year may be helpful during the design process if expansion or upgrades are determined to be part of the preferred solution.

JLR

Prepared by:

J.L. RICHARDŞ & ASSOCIATES LIMITED

Jordan Morrissette, M.Eng., P.Eng.

Distribution: All in attendance

cc: Nicolas Bialik, J.L. Richards & Associates Limited

Page 1 of 5



J.L. Richards & Associates Limited

700 - 1565 Carling Avenue Ottawa, ON Canada K1Z 8R1

Tel: 613 728 3571 Fax: 613 728 6012

Plantagenet Wastewater Class Environmental Assessment Village of Plantagenet, Township of Alfred & Plantagenet

MECP Consultation Meeting – Assimilative Capacity Study (ACS) Minutes of Meeting No. MECP-1

Α	tt	е	n	d	а	n	C	е	
---	----	---	---	---	---	---	---	---	--

Jon Orpana Ministry of the Environment, Conservation and Parks (MECP) Jon.Orpana@ontario.ca Sarah Baxter Ministry of the Environment, Conservation and Parks (MECP) Sarah.Baxter@ontario.ca Victor Castro Ministry of the Environment, Conservation and Parks (MECP) Victor.Castro@ontario.ca Township of Alfred & Plantagenet (Township) Jonathan Gendron JGendron@alfred-plantagenet.com Blue Sky Energy Engineering & Consulting Inc. (Blue Sky) Melody Johnson melody@bskyeng.com Jordan Morrissette J.L. Richards & Associates Limited (JLR) jmorrissette@jlrichards.ca Nicolas Bialik J.L. Richards & Associates Limited (JLR) nbialik@jlrichards.ca

The meeting commenced at 1:30 p.m. on Thursday, May 5, 2022 on Microsoft Teams.

The following summary of the discussions of this meeting has been prepared to record decisions reached and actions required for the project. Please advise the undersigned of any errors or omissions within the next three business days.

ITEM ACTION BY DUE BY

1.1 Introductions and Project Contacts

J. Morrissette introduced members from the Township, JLR and Blue Sky. J. Orpana introduced members from the MECP.

INFO

J. Morrissette noted that the purpose of this meeting was to initiate communication between the project team and the MECP, and, specifically relating to the assimilative capacity study, obtain buy-in from the MECP on the proposed approach for developing effluent discharge requirements. He noted that the Class EA is currently in Phase 1 and that another meeting is likely to be requested with MECP after the Design Basis Memo is completed and Phase 1 draft report is submitted.

INFO

The roles within the project team were identified:

INFO

- Owner: Township of Alfred and Plantagenet (Township). Main contact: Jonathan Gendron, Director of Building, Planning, Engineering and Environment, JGendron@alfred-plantagenet.com.
- **Post-Meeting Note:** Operator: Ontario Clean Water Agency (OCWA). Main contact: Maurice Benoit, Senior Operations Manager, mbenoit@ocwa.com.
- Prime Consultant: J.L. Richards & Associates Limited (JLR). Main contact: Jordan Morrissette, Senior Environmental Engineer, jmorrissette@jlrichards.ca with a copy to Nicolas Bialik, Environmental EIT, nbialik@jlrichards.ca.
- <u>Sub-Consultant (Assimilative Capacity Study)</u>: Blue Sky Energy Engineering & Consulting Inc. (Blue Sky). Main contact: Melody Johnson, Senior Consultant, melody@bskyeng.com

Page 2 of 5



J.L. Richards & Associates Limited

700 - 1565 Carling Avenue Ottawa, ON Canada K1Z 8R1

Tel: 613 728 3571 Fax: 613 728 6012

Plantagenet Wastewater Class Environmental Assessment Village of Plantagenet, Township of Alfred & Plantagenet

MECP Consultation Meeting – Assimilative Capacity Study (ACS) Minutes of Meeting No. MECP-1

<u>ITEM</u> <u>ACTION BY</u> <u>DUE BY</u>

- Ministry of the Environment, Conservation and Parks (MECP):
 - Main contact: Jon Orpana, Regional Environmental Planner, jon.orpana@ontario.ca
 - Main ACS reviewer: Sarah Baxter, Surface Water Specialist, sarah.baxter@ontario.ca
 - Technical review supervisor: Victor Castro, Water Resources Unit Supervisor, victor.castro@ontario.ca
 - System inspector: Jean-Francois Durocher, Water Inspector (Cornwall), jean-francois.durocher@ontario.ca

1.2 Overview of Existing System

J. Morrissette provided an overview of the existing wastewater collection and treatment system, including infrastructure (gravity sewers, lagoon treatment system and gravity outfall), serviced population, ECA constraints and performance. Information is provided in the appended PowerPoint slides. The following main items were noted:

INFO

- The current system has a rated capacity of 561 m³/day and is allowed to discharge twice a year from April 1 to May 31 and from November 1 to December 20.
- It was noted that it has been reported that there are storm connections (roof leaders, etc.) to the system in the Village that contribute to peak flows.
- In recent years, the incoming flow to the plant has regularly exceeded the rated capacity (ADF from 2016-2020 is 747 m³/day).
- It was noted that the existing treatment system has had difficulties meeting discharge objectives for BOD₅, TSS and on certain occasions, TP over the past five years (2016-2020). Operators have noted that algae growth in the lagoon have likely contributed to high TSS concentrations.

1.3 Assimilative Capacity Study – Ambient Water Quality

M. Johnson provided an overview of Blue Sky's ambient water quality assessment of South Nation River. Information is provided in the appended PowerPoint slides. The following main items were noted:

INFO

- Data from a WSC Gauge located 2km upstream was used to determine low flows in the receiver.
- Data from a PWQMN Station located 7km downstream was used to determine the water quality characteristics in the receiver. It was noted that this station was the closet to the outfall and that using a downstream station for water quality characteristics is conservative.

Page 3 of 5



J.L. Richards & Associates Limited

700 - 1565 Carling Avenue Ottawa, ON Canada K1Z 8R1

Tel: 613 728 3571 Fax: 613 728 6012

Plantagenet Wastewater Class Environmental Assessment Village of Plantagenet, Township of Alfred & Plantagenet

MECP Consultation Meeting – Assimilative Capacity Study (ACS)
Minutes of Meeting No. MECP-1

<u>ITEM</u> <u>ACTION BY</u> <u>DUE BY</u>

- The receiver was noted as being Policy 2 for Total Phosphorous.
- For unionized ammonia, the receiver was noted as being Policy 1 from October to May and Policy 2 (conservatively) from June to September. It was noted that the receiver pH is high, which contributes to higher concentrations of toxic forms of ammonia, and that the variation in unionized ammonia concentrations throughout the year is highly dependent on temperature.
- The receiver was noted as being Policy 1 for Dissolved Oxygen (DO) and BOD₅. It was noted that DO samples were regularly taken in the morning when there are typically higher DO concentrations, but that the difference between observed concentrations and the Provincial Water Quality Objectives (PWQOs) of DO was sufficiently large to not question the Policy 1 conclusion.
- It was noted that in the absence of a PWQO for TSS, the discharge should not increase downstream fully mixed concentrations by more than 5 mg/L.
- Nitrate was noted as being typical of surface waters such as the South Nation River and that providing a discharge limit for Nitrate is not recommended.
- The receiver was noted as being Policy 1 for E. Coli.
- Flows in the receiver were noted as having a strong seasonal pattern, with 7Q20 flows below 1 m³/s between July and October, and highest flows in April (14.5 m³/s).

1.4 Proposed Approach for Development of Discharge Criteria

J. Morrissette noted that the Township is projecting a 300% growth in the serviced population in the next 20 years and that there is currently a lot of developmental pressure in the Village. He noted that given the amount of growth and general uncertainty regarding development timelines, consideration for opportunities for a phased approach for expanding the wastewater treatment system is being reviewed. J. Orpana noted that JLR and the Township should review the lapse of time provision and other potential issues from a phased expansion related to the Class EA process. **Action JLR/Township.**

JLR/ Township

M. Johnson provided an overview of the proposed approach for the development of discharge criteria. Information is provided in the appended PowerPoint slides. The following main items were noted:

INFO

A discharge period from October 1 to May 31 was proposed. V. Castro noted that aeration within the lagoon or tertiary treatment technologies downstream of the lagoon should be considered during the upgrade of the system to avoid potential issues relating to the "ice-free cover" provision when discharging directly from a lagoon system during winter and spring months as well as effective treatment during cold weather. **Action JLR/Township.**

JLR/ Township

Page 4 of 5



J.L. Richards & Associates Limited

700 - 1565 Carling Avenue Ottawa, ON Canada K1Z 8R1

Tel: 613 728 3571 Fax: 613 728 6012

Plantagenet Wastewater Class Environmental Assessment Village of Plantagenet, Township of Alfred & Plantagenet

MECP Consultation Meeting – Assimilative Capacity Study (ACS) Minutes of Meeting No. MECP-1

<u>ITEM</u> <u>ACTION BY</u> <u>DUE BY</u>

- Seasonal effluent TAN objectives and limits will be developed using a massbalance approach to ensure non-toxicity at end-of-pipe. V. Castro warned of the difficulties with nitrification during winter months.
- Total Phosphorous loadings are proposed to be limited to 208.4 kg/year, representing the loading approved as part of the 1998 Class EA study. MECP to confirm that this loading can still be applied to the current upgrades. Action MECP. V. Castro noted that using this limit will be relatively stringent for the system, and that more advanced treatment systems and/or phosphorous offsetting program may need to be explored as options in the Class EA study.
- Effluent DO (cBOD₅) and TSS targets will be developed using the EPA's WASP model.
- pH and E. Coli targets will be consistent with targets for other WWTPs in Ontario.
- No nitrate targets are proposed, as it was noted to not be a parameter of concern for the South Nation River.
- Gaps in ambient water quality data (December to March) are proposed to be filled by consolidating data from other months.

1.5 Next Steps and MECP Comments

M. Johnson noted that input from the MECP will be used to guide the development of discharge targets for the system. MECP to review information presented during this meeting and provide feedback on the proposed approach. **Action MECP.**

V. Castro noted that alternative treatment methods (in addition to facultative lagoon treatment) will likely be required to ensure sufficient removal of TSS, TAN and TP (in the absence of a phosphorus offsetting program).

J. Morrissette noted that a letter will be sent to the MECP in response to the "Response to Notice of Commencement" letter sent to the Township and JLR on December 22, 2021. **Action Township/JLR.**

MECP

MECP

INFO

JLR/ Township

Page 5 of 5



J.L. Richards & Associates Limited

700 - 1565 Carling Avenue Ottawa, ON Canada K1Z 8R1

Tel: 613 728 3571 Fax: 613 728 6012

Plantagenet Wastewater Class Environmental Assessment Village of Plantagenet, Township of Alfred & Plantagenet

MECP Consultation Meeting – Assimilative Capacity Study (ACS)
Minutes of Meeting No. MECP-1

<u>ITEM</u> <u>ACTION BY</u> <u>DUE BY</u>

Meeting adjourned at 2:20 p.m.

Next meeting will be held following the submission of the Phase I Report.

Prepared by: Issued on: May 25, 2022

Nicolas Bialik, EIT

Environmental Engineering Intern

MBialik

Distribution: All attendees

CC: Jean-Francois Durocher, MECP

Sarah Gore, JLR

Page 1 of 3



Plantagenet Wastewater Municipal Class Environmental Assessment Village of Plantagenet

Phase 1 Report Review Minutes of Meeting No. 2

Attendance: Jonathan Gendron

Stephane Barbarie Jordan Morrissette Nicolas Bialik

Township of Alfred & Plantagenet (Township)

Ontario Clean Water Agency (OCWA) J.L. Richards & Associates Limited (JLR)

J.L. Richards & Associates Limited (JLR)

jgendron@alfred-plantagenet.com

sbarbarie@ocwa.ca

imorrissette@ilrichards.ca

nbialik@jlrichards.ca

The meeting commenced at 8:50 a.m. on Tuesday, April 18, 2023 at 205 Old Highway 17, Plantagenet, Ontario, K0B 1L0.

The following summary of the discussions of this meeting has been prepared to record decisions reached and actions required for the project. Please advise the undersigned of any errors or omissions within the next three business days.

ITEM ACTION BY DUE BY

Previous Business

J. Morrissette previously noted that a sampling program for the lagoon during all 1.10 months of the year may be helpful during the design process if expansion or upgrades are determined to be part of the preferred solution. This was reiterated during the current meeting. J. Morrissette further noted that the sampling program should include testing for alkalinity and E. coli, and include monthly sampling during winter to have this information available for design if the preferred solution results in an extended discharge window.

OCWA / **Township**

New Business

2.1 **Introduction and Purpose of Meeting**

INFO

Attendees were introduced and it was noted that the purpose of the meeting was to review and discuss the draft Phase 1 Report.

2.2 **Review of Draft Phase 1 Report**

The following items were noted during the review of the draft Phase 1 Report:

The flow measurement device at SPS No. 1 is a Toshiba magnetic flow meter. JLR to update the Phase 1 Report.

JLR

The main outlet for the lagoon is the overflow chamber. The alternate outlet through MH-J is not used. JLR to update the Phase 1 Report.

JLR

The discrepancy between the influent and effluent flow volumes was discussed. OCWA noted that there is no effluent flow meter at the lagoon, and that effluent volumes are estimated based on incoming flow and lagoon drawdown. It was also noted that OCWA will review whether the flow meter at SPS No. 1 is operating properly.

OCWA

Page 2 of 3



Plantagenet Wastewater Municipal Class Environmental Assessment Village of Plantagenet

Phase 1 Report Review Minutes of Meeting No. 2

<u>ITEM</u>		ACTION BY	DUE BY
	 The Township indicated that they had no further questions or comments regarding the Phase 1 Report, and the report can be finalized. 	JLR	
2.3	Additional Information on Existing Conditions		
	S. Barbarie noted that the bedrock elevations near the South Nation River are elevated, and that any work in these areas will likely require rock excavation.	INFO	
	 It was noted that the generator at SPS No. 2 will soon need to be replace due to its age. 	INFO	
2.4	Flow Monitoring Preliminary Results		
	J. Morrissette noted that the flow monitoring study, undertaken for Phase 2 of the Class EA, identified inflow and infiltration as a significant component of the generated wastewater flow. The study also identified potential surcharging of sanitary sewers upstream of the river crossing. The Township noted that they are not aware of any issues at the identified surcharged locations with respect to sewer backups.	INFO	
2.5	Public Information Centre (PIC) No. 1		
	It was noted that PIC No. 1 should be held the week of May 8 th , either on the Wednesday or Thursday. JLR to provide notice of PIC to the Township in both English and French by April 21, 2023, such that notice can be posted on the Township's website and published in the local newspaper for two consecutive weeks. Post-Meeting Note: PIC No. 1 is scheduled for May 10, 2023, from 6pm to 8pm, at the Village community centre. Notices were provided to the Township on April 21, 2023.	INFO	
2.6	Criteria Matrix for Evaluation of Alternatives (Phase 2)		
	Prior to the meeting, a draft criteria matrix for the evaluation of alternatives in Phase 2 was provided to the Township. The draft criteria matrix was reviewed and discussed during the meeting. J. Morrissette noted that JLR will provide past examples of criteria matrices for consideration by the Township. Post-Meeting Note : Past examples of criteria matrices were provided to the Township on April 18, 2023.	INFO	
2.7	Additional Considerations (Phase 2 to Phase 4)		
	 S. Barbarie noted that the use of lagoon liners has historically resulted in a smaller microorganism population at the base of the lagoon. 	INFO	
	 S. Barbarie noted that OCWA has experienced issues with the growth of cattails in lagoon systems that require a complete drawdown of the lagoon by 	INFO	

Page 3 of 3



Plantagenet Wastewater Municipal Class Environmental Assessment Village of Plantagenet

Phase 1 Report Review Minutes of Meeting No. 2

<u>ITEM</u> <u>ACTION BY</u> <u>DUE BY</u>

end of May. JLR noted that consideration for operational flexibility will be provided for the ultimate preferred solution.

 J. Morrissette noted that a review of the capacity of the existing sanitary sewers will not be completed as part of the Class EA. This would be part of a master planning exercise and will depend on the exact locations of future development. However, upgrades/recommendations will be provided based on the results of the flow monitoring study completed as part of Phase 2. **INFO**

Meeting adjourned at 10:15 a.m. Following the meeting, attendees visited the outfall, pumping stations and lagoon.

Timing of next meeting is unknown.

Prepared by: Issued on: April 26, 2023

Nicolas Bialik, P.Eng. Environmental Engineer

Distribution: All attendees

Biolik

CC:

Page 1 of 4



Village of Plantagenet Phase 2 Report Review Minutes of Macting No. 2	Plantagenet Wastewater Municipal Class Environmental Assessmen	ıt
· · · · · · · · · · · · · · · · · · ·	Village of Plantagenet	
Minutes of Masting No. 2	Phase 2 Report Review	
windles of weeting No. 3	Minutes of Meeting No. 3	

Jonathan Gendron Township of Alfred & Plantagenet (Township) Attendance: igendron@alfred-plantagenet.com Ontario Clean Water Agency (OCWA) Stephane Barbarie sbarbarie@ocwa.ca Jordan Morrissette J.L. Richards & Associates Limited (JLR) imorrissette@ilrichards.ca Nicolas Bialik nbialik@jlrichards.ca J.L. Richards & Associates Limited (JLR) Camila Valcarcel J.L. Richards & Associates Limited (JLR) cvalcarcel@jlrichards.ca

The meeting commenced at 9:00 a.m. on Friday, July 28, 2023. It was held virtually through MS Teams.

The following summary of the discussions of this meeting has been prepared to record decisions reached and actions required for the project. Please advise the undersigned of any errors or omissions within the next three business days.

<u>ITEM</u> <u>ACTION BY</u> <u>DUE BY</u>

Previous Business

JLR previously noted that a sampling program for the lagoon during all months of the year may be helpful during the design process if expansion or upgrades of the existing system are determined to be part of the preferred solution. JLR further noted that the sampling program should include testing for alkalinity and E. coli, and include monthly sampling during winter to have this information available for design if the preferred solution results in an extended discharge window.

OCWA / Township

2.7 Additional Considerations (Phase 2 to Phase 4)

 OCWA noted that the use of lagoon liners has historically resulted in a smaller microorganism population at the base of the lagoon. INFO

 It was noted that the generator at SPS No. 2 will soon need to be replace due to its age.

INFO

 OCWA noted that they have experienced issues with the growth of cattails in lagoon systems that require a complete drawdown of the lagoon by end of May. JLR noted that consideration for operational flexibility will be provided for the ultimate preferred solution.

INFO

New Business

3.1 Purpose of Meeting

It was noted that the purpose of the meeting was to review and discuss the draft Phase 2 Report with the Township and OCWA, as well as discuss next steps.

INFO

3.2 Consultation with the MECP

It was noted that JLR submitted the Phase 1 Report and Assimilative Capacity Study (ACS) Report to the MECP for their review. The Phase 2 Report will be provided to the MECP once it is finalized.

JLR

Page 2 of 4



Plantagenet Wastewater Municipal Class Environmental Assessment Village of Plantagenet

Phase 2 Report Review Minutes of Meeting No. 3

ITEM ACTION BY DUE BY

It was noted that the MECP provided Phase 1 Report / ACS review comments to the Township and JLR on July 27, 2023, and that JLR and Blue Sky would be reviewing the comments and providing a response. The following notable MECP comments were provided:

•	The 7Q20 in October was noted to be too low to effectively assimilate the WWTS's effluent and it was noted that more details should be provided for discharge scenarios when flows are less than the average monthly 7Q20 flows. To be reviewed.	JLR/Blue Sky
•	No objections to the proposed cBOD₅ limits and objectives.	INFO
•	Recommended that the objective and limit for TSS be reduced to 15 mg/L and 20 mg/L, respectively, compared to proposed criteria of 20 mg/L and 25 mg/L, respectively. To be reviewed.	JLR/Blue Sky
•	Noted that that the design objective for TP would be 0.1 to 0.15 mg/L, compared to the proposed objective of 0.2 mg/L. JLR noted that this discrepancy would be identified to the MECP.	JLR/Blue Sky
•	Noted that TAN limits and objectives should be re-calculated using most conservative temperature and pH values available. To be reviewed.	JLR/Blue Sky
•	No objections to the proposed E.coli limits and objectives.	INFO
•	No objections to maintaining existing compliance values for pH.	INFO

3.3 **Review of Draft Phase 2 Report**

The following items were noted during the review of the draft Phase 2 Report:

OCWA noted that the proposed TP limits exceed the limits of a dry-ditch

No objections to maintaining existing compliance values for pH.

	discharge wastewater treatment system currently in operation in Vankleek Hill.	
•	It was noted that high levels of I/I were identified in the older areas of the Village (west of the river), and that surcharging was also observed to occur during rainfall events in the sewers upstream of the river crossing (along Ottawa Street). J. Gendron noted that a CCTV inspection was completed recently (in the last 5 years) for the Town's entire collection system. It was noted that OCWA would review the results of the CCTV inspection to determine whether they could identify potential causes for the surcharging.	OCWA

It was noted that the current preferred option for upgrades to the Plantagenet Wastewater Treatment System is Option 4B, which included additional lagoon storage, addition of specialized treatment system(s) and an expanded

INFO

INFO

Page 3 of 4



Plantagenet Wastewater Municipal Class Environmental Assessment Village of Plantagenet

Phase 2 Report Review Minutes of Meeting No. 3

<u>ITEM</u> <u>ACTION BY</u> <u>DUE BY</u>

discharge window to the South Nation River. The Township noted that they did not identify any changes to be made to the evaluation results.

OCWA noted that pumping effluent directly to the Ottawa River could represent a feasible solution for the upgrades of the system, and that it could be reviewed as an additional Phase 2 alternative solution. JLR to undertake a preliminary feasibility assessment of this option for further discussion and consideration. Post-Meeting Note: JLR undertook a high-level assessment of this option, and presented the Township and OCWA with a capital cost estimate of \$40M. The Township noted that they were not interested in proceeding with this option due to the high capital cost. JLR to add this option as an initial option that was pre-screened during the screening process.

3.4 Other Discussion Items:

- JLR previously noted that a review of the capacity of the existing sanitary sewers would not be completed as part of the Class EA. This would be part of a master planning exercise and would depend on the exact locations of future development. JLR noted however that they could undertake a high-level review of the sanitary sewer immediately downstream of SPS No. 2 to understand whether this sewer could accommodate the projected increase in flow. Post-Meeting Note: JLR undertook a cursory review of the sewers downstream of SPS No. 2, and noted that certain sewer sections may need to be upsized prior to commissioning the upgrades to SPS No. 2.
- Assuming Option 4B is carried forward to Phase 3 of the Class EA, it was
 identified that participation in the phosphorous offsetting program should be
 reviewed as a potential option, as it could eliminate the need for a specialized
 TP treatment system. It is noted that consultation with the SNC would be
 required and that this work is currently out of scope. JLR and Township to
 discuss.

JLR / Township

INFO

JLR

3.5 **Schedule and Next Steps:**

 Assuming Option 4B is carried forward to Phase 3 of the Class EA, the Draft Alternatives Report is planned to be issued in September. INFO

J. Gendron noted the importance of completing the Class EA in 2023.

INFO

Meeting adjourned at 10:30 a.m.

Timing of next meeting is TBD.

Page 4 of 4



Plantagenet Wastewater Municipal Class Environmental Assessment Village of Plantagenet

Phase 2 Report Review Minutes of Meeting No. 3

Prepared by: Issued on: September 5, 2023

Camila Valcarcel, EIT.

Environmental Engineering Intern

Distribution: All attendees

CC:

Nicolas Bialik

From: Nicolas Bialik

Sent: Friday, February 23, 2024 10:04 AM

To: Baxter, Sarah (She/Her) (MECP); Orpana, Jon (MECP); JGendron@alfred-

plantagenet.com; Melody Johnson; Jordan Morrissette

Cc: Camila Valcarcel; Susan Jingmiao Shi; Castro, Victor (MECP); Michael Hulley

Subject: RE: Plantagenet WW Class EA - Effluent Criteria Discussion

Attachments: 2024-02-20_MECP Meeting PowerPoint.pdf; M_PlantagenetACS-

BackgroundApproach-220502.pdf; TM PlantagenetWWTS-ACS-221111.pdf;

M_Plantagenet-MECPcomments-230627.pdf; M_Plantagenet-

MECPcomments-231130.pdf

Hi Everyone,

Thank you all for attending this meeting. I have added below key notes and action items from the meeting, as well as attached the PowerPoint presentation and other items listed below.

- It was noted that, pending confirmation on the effluent criteria, the Environmental Study Report is complete. JLR
 to provide draft report to the MECP so that they may begin their review. Post-Meeting Note: JLR submitted the
 draft ESR to the MECP on February 23, 2024.
- JLR noted that the preferred solution for the upgrades to the Plantagenet WWTS Upgrades include the expansion of the discharge window to October 1 May 31, additional lagoons for storage and pre-treatment, participation in the South Nation River Total Phosphorous Management Program, and addition of a Submerged Attached Growth Reactor(s) (SAGR) for tertiary treatment prior to discharge.
- It was noted that the Township intends to proceed with the design of the Phase 1 Upgrades (ADF expansion from 747 m3/day to 1,390 m3/day) as soon as the Class EA is finalized and nominate this project for the HEWSF funding. It is therefore important that the Class EA be finalized as soon as possible.
- The latest comments/questions from the MECP were discussed, as per wording below in blue:
 - Does the modelling exercise specifically pertain to TSS, or do the estimated mixing zone sizes pertain to all effluent parameters? Blue Sky noted that the modelling exercise pertains to all effluent parameters.
 - The Phase 2 mixing zones are smaller than the Phase 1 mixing zones. The report states that "the large increase in effluent flow from 2,200 m³/d to 4,500 m³/d increases near-field mixing and actually reduces the distance required to achieve completely mixed conditions." Considering that Phase 2 would involve a significantly higher effluent loading, and that the report states that the model didn't predict well for near-field results, I am skeptical of these results and recommend additional modelling (or field work) be completed to verify these findings.
 - The size of the predicted mixing zone is extremely large for most of the months, based on the proposed effluent criteria. Policy 5 of the Ministry Blue Book states that "Mixing zones should be as small as possible and not interfere with beneficial uses. Mixing zones are not to be used as an alternative to reasonable and practical treatment". Based on these results, I think that the proposed objectives and limits for CBOD₅, TSS, and TAN need to be revisited to make the mixing zone as small as reasonably possible.
 - Since the ultimate hydraulic expansion is significant, reducing the effluent concentrations will also reduce the loadings to an already impaired waterbody.
 - The above comments/questions were reviewed as one.
 - Blue Sky described in detail the CORMIX modelling undertaken for the study, and explained the limitations of the modelling software, particularly for short field modelling. They noted that the far field results were more reliable and generally conservative.
 - Blue Sky listed the reports and memos they have submitted so far to the MECP. These include the following, which are attached to the email for reference:

Note: These reports and memos are already located elsewhere in the Appendices.

The

- Ambient Conditions and Proposed Approach Memorandum, May 2, 2022
- Assimilative Capacity Study Report, November 11, 2022
- Response to Reviewer Comments, June 27, 2023
- Response to Review Comments, November 30, 2023
- The MECP noted that would undertake another review of the memorandums and previous Blue Sky comments based upon information provided in the meeting, and identify next steps, if any, to be taken to finalize the effluent criteria. Action MECP.
- The MECP noted that they may recommend an adaptive ECA in order for effluent sampling and testing to be completed once the upgrades are completed.

Should you have any questions, or have any clarifications to add to the above, feel free to respond to this email.

Regards,

-----Original Appointment-----

From: Nicolas Bialik

Sent: Thursday, January 25, 2024 3:55 PM

To: Nicolas Bialik; Baxter, Sarah (She/Her) (MECP); Orpana, Jon (MECP); JGendron@alfred-plantagenet.com; Melody

Johnson; Jordan Morrissette

Cc: Camila Valcarcel; Susan Jingmiao Shi; Castro, Victor (MECP) **Subject:** Plantagenet WW Class EA - Effluent Criteria Discussion

When: Tuesday, February 20, 2024 2:30 PM-3:30 PM (UTC-05:00) Eastern Time (US & Canada).

Where: Microsoft Teams Meeting

Update: Rescheduled due to change in MECP availability. Based on initial feedback, a date of February 20, 2024, worked best for people involved. Will update meeting time as required.

Purpose of meeting is to develop a plan of action to resolve outstanding MECP comments on the effluent criteria proposed as part of the Schedule 'C' Plantagenet WW Class EA.

Sarah/Jon, Melody and Jonathan, please forward the meeting invite to individuals from the MECP, Blue Sky and Township, respectively, that I have not included.

I have attached the latest email correspondence from the MECP. Latest comments from the MECP are provided below:

I have several questions and concerns regarding the results of the CORMIX modelling exercise:

- Does the modelling exercise specifically pertain to TSS, or do the estimated mixing zone sizes pertain to all effluent parameters?
- The Phase 2 mixing zones are smaller than the Phase 1 mixing zones. The report states that "the large increase in effluent flow from 2,200 m³/d to 4,500 m³/d increases near-field mixing and actually reduces the distance required to achieve completely mixed conditions." Considering that Phase 2 would involve a significantly higher effluent loading, and that the report states that the model didn't predict well for near-field results, I am skeptical of these results and recommend additional modelling (or field work) be completed to verify these findings.
- The size of the predicted mixing zone is extremely large for most of the months, based on the proposed effluent criteria. Policy 5 of the Ministry Blue Book states that "Mixing zones should be as small as possible and not interfere with beneficial uses. Mixing zones are not to be used as an alternative to reasonable and practical treatment". Based on these results, I think that the proposed objectives and limits for CBOD₅, TSS, and TAN need to be revisited to make the mixing zone as small as reasonably possible.
- Since the ultimate hydraulic expansion is significant, reducing the effluent concentrations will also reduce the loadings to an already impaired waterbody.

Microsoft Teams meeting





TOWNSHIPOFALFRED & PLANTAGENET PLANTAGENET WASTEWATER SYSTEM SCHEDULE C CLASS EA **EFFLUENT CRITERIA**

MINISTRY OF THE ENVIRONMENT, CONSERVATION AND PARKS **CONSULTATION**

FEBRUARY 20, 2024

J.L. RICHARDS & ASSOCIATES LIMITED W/BLUE SKY ENERGY ENGINEERING & CONSULTING INC.

- Jonathan Gendron, P.Eng., Director (Township)
- Melody Johnson, M.A.Sc., PhD, P.Eng., Senior Consultant (Blue Sky)
- Susan Shi, P.Eng., Senior Environmental Engineer (J.L. Richards) Nicolas Bialik, P.Eng., Environmental Engineer (J.L. Richards)

BEST MANAGED COMPANIES

www.jlrichards.ca

1



Township of Alfred & Plantagenet Plantagenet Wastewater System Schedule C Class EA **Effluent Criteria**



Meeting Agenda

- Overview of Class EA Progress to Date
- Overview of Effluent Criteria Development to Date, including latest MECO Correspondences
- Development of Plan of Action to Finalize Effluent Criteria

www.jlrichards.ca





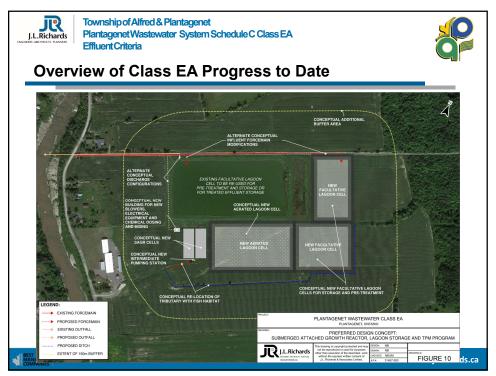
Overview of Class EA Progress to Date

- Phase 1 Report completed April 26, 2023.
- Phase 2 Report completed September 18, 2023.
- Phase 3 Memorandum completed November 9, 2023.
- Environmental Study Report drafted. Waiting on confirmation on effluent criteria.
- · Notice of Completion drafted. Waiting on ESR to be finalized.

MANAGED COMPANIES

www.jlrichards.ca

3



Δ





Overview of Effluent Criteria Development to Date

Table 1: Proposed Maximum Daily Effluent Discharge Rates – Phase 1 – 10-Year (2032).

Date Range	Maximum Daily Discharge Rate (m ³ /d) (1)			
Scenario A - Existing Discharge Peri-	ods			
April 1 to 30	Lower of 16,000 or outfall capacity			
May 1 to 31	Lower of 8,500 or outfall capacity			
November 1 to 30	Lower of 6,100 or outfall capacity			
December 1 to 20	Lower of 9.500 or outfall capacity			
Scenario B - Semi-Continuous Disch	arge			
October 1 to 31 Lower of 2,200 or outfall capacity				
November 1 to 30 Lower of 6,100 or outfall capacity				
December 1 to March 31	Lower of 4,500 or outfall capacity			
April 1 to 30	Lower of 16,000 or outfall capacity			
May 1 to 31	Lower of 8,500 or outfall capacity			
	modelling be completed to confirm the actual outfall the outfall capacity is lowest in April due to high evels in the South Nation River).			

Table 2: Proposed Effluent Objectives and Limits – Phase 1 – 10-Year (2032).

Parameter Averaging Period Objective Limit (mg/L unless noted otherwise) (mg/L unless noted otherwise)						
cBOD₅	Monthly	15	20			
TSS	Monthly	20	25			
TAN Oct 1 – 31 Nov 1 – 30 Dec 1 – 31 Jan 1 – Feb 28 Mar 1 – 31 Apr 1 – 30 May 1 – 31	Monthly	4.4 6.0 9.6 11.2 9.6 4.4 2.1	5.0 7.5 12.0 14.0 12.0 5.5 2.6			
TP (1)	Monthly	0.75	1.0			
pH	Single Grab	6.5 to 9.0	6.0 to 9.5			
Notes: 1. Loading that exceeds the total allowable loading of 204.8 kg will be offset through participation in the SNC TPM program.						

www.jlrichards.ca

5



Township of Alfred & Plantagenet
Plantagenet Wastewater System Schedule C Class EA



Overview of Effluent Criteria Development to Date

Table 3: Proposed Maximum Daily Effluent Discharge Rates – Phase 2 – 20-Year (2042).

Date Range	Maximum Daily Discharge Rate (m³/d) (1)
Scenario A - Existing Discharge P	eriods
April 1 to 30	Lower of 16,000 or outfall capacity
May 1 to 31	Lower of 15,100 or outfall capacity
November 1 to 30	Lower of 10,800 or outfall capacity
December 1 to 20	Lower of 16,000 or outfall capacity
Scenario B - Semi-Continuous Dis	scharge
October 1 to 31	Lower of 4,500 or outfall capacity
November 1 to 30	Lower of 10,800 or outfall capacity
December 1 to March 31	Lower of 7,600 or outfall capacity
April 1 to 30	Lower of 16,000 or outfall capacity
May 1 to 31	Lower of 15,100 or outfall capacity
flow capacity. It is expected the	ulic modelling be completed to confirm the actual outfall nat the outfall capacity is lowest in April due to high ar levels in the South Nation River).

Table 4: Proposed Effluent Objectives and Limits – Phase 2 – 20-Year (2042).

Parameter Averaging Period Objective (mg/L unless noted otherwise) Otherwise) Units of the trivial of the trivi							
cBOD₅	Monthly	15	20				
TSS	Monthly	20	25				
Oct 1 – 31 Nov 1 – 30 Dec 1 – 31 Jan 1 – Feb 28 Mar 1 – 31 Apr 1 – 30 May 1 – 31	Monthly	4.4 6.0 9.6 11.2 9.6 4.4 2.1	5.0 7.5 12.0 14.0 12.0 5.5 2.6				
TP (1)	Monthly	0.75	1.0				
pH	Single Grab	6.5 to 9.0	6.0 to 9.5				
	exceeds the total in the SNC TPM	allowable loading of 204.8 I	g will be offset through				

www.jlrichards.ca



Township of Alfred & Plantagenet Plantagenet Wastewater System Schedule C Class EA **Effluent Criteria**



Overview of Effluent Criteria Development to Date

Since 1988, the WWTS has been operating at or above the rated capacity of the works. As a result, effluent quality has not been consistently meeting its ECA limits, particularly for CBOD, and TSS. Because of these issues, along with other operational problems (i.e. algoe, maintenance) and an expected increase in the Town's population in the next 10 to 20 years, the Township has initiated the Class EA process. In order to select the most suitable newlupgraded system, an assimilative capacity but y(CS) is necessary. The reviewed charments have been provided as a result.

The proposed ACS methodology was approved by the Ministry during a May 5, 2022 pre-submission consultation. The assessment incorporated 2000-2020 South Nation ambient water quality data from the Provincial Water Quality Monitoring Network (Privability absorbed Increases and Assessment South Assessment Assessment Assessment South Assessment Assessment

- January, Scenario B = 32:1
- February, Scenario B = 29:1
- April, Scenario A/B = 78:1
- May Scenario A/B = 30:1
- November, Scenario A/B = 30:1
- December, Scenario B = 66:1

I should not have stated that October should not be considered. I should have said that the lower dilution ration of 17:1 could be considered if additional work (i.e. mixing zone modeling) is completed and demonstrates that the mixing zone is small and it doesn't interfere with other river beneficial uses.

Thank you for the explanation. Blue Sky will be undertaking this additional work and will aim to have a memorandum to you by Wednesday, November 29, 2023 for your review



www.jlrichards.ca



Township of Alfred & Plantagenet Plantagenet Wastewater System Schedule C Class EA



Overview of Effluent Criteria Development to Date

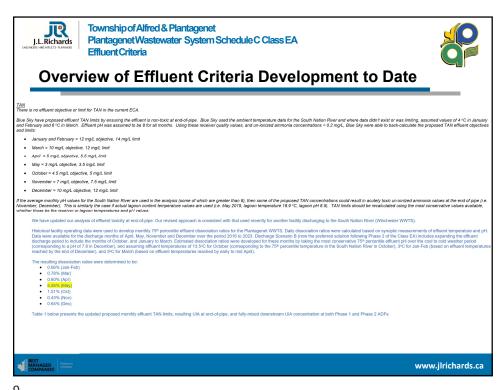
At what distance downstream are "fully mixed" conditions achieved?

The design objective is typically based on what the selected technology is designed to achieve. In a more general approach, the effluent objective is often 50% of the effluent limit.

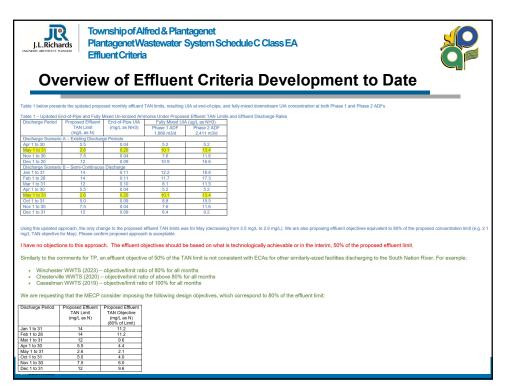
lease note that the preferred design concept for the upgrades to the wastewater treatment system includes participation in SNC TPM program. However, should there be any issues with the TPM orgam and a specialized treatment system is determined to be required for the removal of TP, we would like to establish a feasible diffuent design objective. An effluent objective of 50% of the TP limit not consistent with ECAs for other similarly-sized facilities discharging to the South Nation Kiner. For example (objectives/limits):

- Existing Plantagenet WWTS CofA (2004) 0.75 mg/L / 1 mg/L 75%
 Winchester WWTS (2023) 0.8 mg/L / 1 mg/L = 80%
 Chesterville WWTS (2020) 0.75 mg/L / 1 mg/L 75%
 Casselman WWTS (2019) 0.8 mg/L / 1 mg/L 80%

Victor Castro advised that the offset would be formalized in a condition in the ECA. The ECA will also include a condition requiring the Township to continue to pay into the program (to formalize the ancesment)



J





Township of Alfred & Plantagenet
Plantagenet Wastewater System Schedule C Class EA
Effluent Criteria



Overview of Effluent Criteria Development to Date

E.Coli

I have no objections to the implementation of the proposed objective and limit. Compliance should be assessed via a monthly geometric mean

We have updated our assessment of effluent E.Coll criteria. Our revised approach is consistent with that used recently for another facility discharging to the South Nation River (Winchester WWTS). We proposed to remove E.Coll criteria. based on the following:

- Existing ECA does not include an objective or limit for E Coli
- Recently amended ECA for Win
- · Proposed dilution ratios are relatively high
- No effluent discharge is proposed during the more critical Summer period
- Lagoon-based wastewater treatment systems have historically provided a level of natural disinfection

save no objections to this approach

Noted

- · Above email discussions are as of November 23, 2023.
- Blue Sky submitted memorandum with additional information on November 30, 2023.
- Additional comments received from MECP on December 20, 2023, most of which relate to the CORMIX modelling exercise (see next slide)



www.jlrichards.ca

11



Township of Alfred & Plantagenet
Plantagenet Wastewater System Schedule C Class EA



Overview of Effluent Criteria Development to Date

Latest MECP Comments:

I have several questions and concerns regarding the results of the CORMIX modelling exercise:

- Does the modelling exercises specifically pertain to TSS, or do the estimated mixing zone sizes pertain to all effluent parameters?
- The Phase 2 mixing zones are smaller than the Phase 1 mixing zones. The report states that "the large increase in effluent flow from 2,200 m³/d to 4,500 m³/d increases near-field mixing and actually reduces the distance required to achieve completely mixed conditions." Considering that Phase 2 would involve a significantly higher effluent loading, and that the report states that the model didn't predict well for near-field results, I am skeptical of these results and recommend additional modelling (or field work) be completed to verify these findings.
- The size of the predicted mixing zone is extremely large for most of the months, based on the proposed effluent criteria. Policy 5 of the Ministry Blue Book states that "Mixing zones should be as small as possible and not interfere with beneficial uses. Mixing zones are not to be used as an alternative to reasonable and practical treatment". Based on these results, I think that the proposed objectives and limits for CBOD₅, TSS, and TAN need to be revisited to make the mixing zone as small as reasonably possible.
- Since the ultimate hydraulic expansion is significant, reducing the effluent concentrations will also reduce the loadings to an already impaired waterbody.



www.jlrichards.ca





Development of Action Plan to Finalize Effluent Criteria

- Township is intending to proceed with the design of Phase 1 upgrades this year and intends to nominate this project for the HEWSF funding.
- Proposed project team approach to answering MECP questions.
 - Modelling
 - TAN Limits
 - CBOD5 Limits
 - TSS Limits
- Any additional comments.

BEST MANAGED COMPANIES www.jlrichards.ca



Appendix D6

Public Information Centre No. 1 – Notice, Presentation and Attendance Sheet

NOTE: This email (and attachments) is representative of all emails delivered to stakeholders.

Nicolas Bialik

From: Nicolas Bialik

Sent: Friday, April 28, 2023 9:45 AM

To: info@eohu.ca

Cc: Jordan Morrissette; JGendron@alfred-plantagenet.com

Subject: Plantagenet Wastewater Schedule 'C' Class EA Consultation - Notice of PIC No. 1

Attachments: 31457 - Plantagenet Class EA _Eastern Health Unit.pdf

Hello,

Please find attached letter and notice of Public Information Centre (PIC) No. 1 for the Plantagenet Wastewater Class Environmental Assessment (EA). As a key stakeholder for this study, you are invited to attend the PIC, which is occurring May 10, 2023 between 6pm – 8pm in Plantagenet, Ontario. Additional details on the PIC and on study progress are provided in the attached letter and notice.

Should you have any questions or feedback, please do not hesitate to respond to this email or contact either of the two (2) project contacts found in the attached notice.

We look forward to hearing from you.

Regards,

J.L. Richards & Associates Limited 700 - 1565 Carling Avenue Ottawa, ON Canada K1Z 8R1

Tel: 613 728 3571 Fax: 613 728 6012

April 26, 2023

Our File No.: 31457-000

VIA: E-MAIL info@eohu.ca

Eastern Health Unit 1000 Pitt St Cornwall ON K6J 5T1

Re: Notice of Public Open House (Information Centre) No. 1 Plantagenet Wastewater Schedule 'C' Municipal Class Environmental Assessment

This letter is intended to notify you of an upcoming Public Open House where the public will have the opportunity to learn more about the above-noted study and have further opportunity to provide feedback. The Open House (PIC No. 1) will be held the evening of May 10th, 2023, at the Plantagenet Community Centre, as described in the attached notice.

The study is evaluating various alternatives to address current and future requirements of the Plantagenet Wastewater System. As part of Phase 2 of the study, the following six (6) alternatives were identified as potential alternative solutions to address the problems/opportunities:

- 1. Do Nothing
- 2. Optimize/Modify Existing Lagoon
- 4. Expand WWTS with Specialized Treatment System
- 5. New Mechanical Treatment Plant
- 3. Expand WWTS with New Lagoon Cells 6. Pump Raw Wastewater to Wendover WWTP

Screening of this initial list of alternatives was completed, and three (3) alternatives were identified for further evaluation and feedback as part of the Open House. The screened alternatives include Option 1 - Do Nothing (Baseline), Option 4A - Expand WWTS with New Lagoon Cells and Specialized Treatment System(s) using Existing Discharge Windows, and Option 4B - Expand WWTS with New Lagoon Cells and Specialized Treatment System(s) using New Discharge Window.

If you have any questions or concerns, please do not hesitate to contact the undersigned.

Yours very truly,

J.L. RICHARDS & ASSOCIATES LIMITED

Jordan Morrissette, M.Eng., P. Eng., Associate, Senior Environmental Engineer

cc: Jonathan Gendron, Township of Alfred & Plantagenet

Attachments: Notice of Public Open House #1



Notice of Public Open House #1



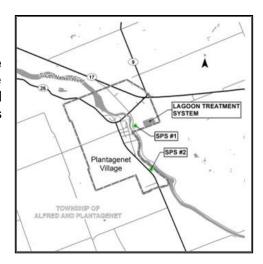
Township of Alfred and Plantagenet Plantagenet Wastewater System Schedule 'C' Municipal Class Environmental Assessment

The Township of Alfred and Plantagenet initiated a Municipal Class Environmental Assessment (Class EA) in December 2021 to evaluate alternatives to potentially expand and/or upgrade the Village of Plantagenet Wastewater System.

How Will This Affect Me?

The study will assess current and future requirements of the Plantagenet Wastewater System, including the sewage pumping stations, forcemains, lagoon and effluent piping, and will evaluate various alternatives to address the Township's needs.

Public consultation is a key element of the process, and your input will be an important consideration in the selection of a preferred solution and design concept.



We Want to Hear From You!

As part of the proposed consultation plan, two (2) Public Information Centres (PICs) will be held during the study. PIC No. 1 will identify the system's existing problems and/or opportunities and will identify and solicit feedback on potential alternative solutions that are being considered. PIC No. 2, which is planned for later in 2023, will identify and solicit feedback on alternative design concepts for the preferred solution.

The Open House (or Public Information Centre) is scheduled as follows:

Date: Wednesday, May 10, 2023

Time: Open House from 6:00 p.m. – 8:00 p.m.

Location: Plantagenet Community Centre, 220 Main Street, Plantagenet, ON

All those interested in the project are urged to attend. Project information will also be available on the Township website, www.alfred-plantagenet.com. If you have any questions or input to provide regarding the study, you are invited to contact a member of the study team. We welcome your feedback.



TO FIND OUT MORE VISIT

www.alfred-plantagenet.com

Jordan Morrissette, M.Eng., P.Eng. Senior Environmental Engineer J.L. Richards & Associates Limited 343 Preston Street, Tower II, Suite 1000

Ottawa Ontario K1S 1N4 Phone: 343-804-5379 imorrissette@ilrichards.ca Jonathan Gendron, P.Eng.
Director of Building, Planning,
Engineering, and Environment
Township of Alfred & Plantagenet
205 Old Highway 17, P.O. Box 350,
Plantagenet, ON K0B 1L0
Phone: 613-673-4797 ext. 226
igendron@alfred-plantagenet.com

This study is being conducted according to the requirements of a Schedule C project under the Municipal Class Environmental Assessment process (October 2000, as amended in 2023).

This Notice issued was issued on April 27, 2023 and May 4, 2023.

Avis de Séance d'Information Publique # 1



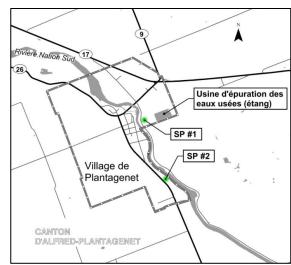
Canton d'Alfred et Plantagenet System d'eaux usées de Plantagenet Étude environnementale de portée générale Annexe C

Le Canton d'Alfred et Plantagenet entreprend une étude environmentale de portée générale pour déterminer les options d'agrandissement et/ou d'amélioration du système de collection et de traitement d'eaux usées du village de Plantagenet.

En quoi cela vous concerne?

L'étude examinera les besoins actuels et futurs du système de collection et de traitement d'eaux usées de Plantagenet, y compris les égouts sanitaires, les stations de pompage. l'étang d'épuration et la conduite d'évacuation, et évaluera des alternatives pour répondre aux besoins du Canton.

La consultation des partis prenants fait partie intégrante de l'étude. Vos commentaires aideront à identifier la solution préférée.



Nous voulons votre avis!

L'étude comprendra deux (2) séances d'information publique. La première séance identifiera les problèmes et/ou les opportunités, et discutera des alternatives possibles. La deuxième séance d'information publique, prévue pour plus tard en 2023, identifiera et discutera des concepts proposés pour la solution préférée.

La première séance d'information publique aura lieu :

Mercredi, 10 mai 2023 Date:

Heure: Porte ouverte de 18:00 - 20:00

Centre Communautaire Plantagenet, 220 rue Main, Plantagenet, ON Adresse:

Tous ceux qui sont intéressés dans ce project sont priés de venir participer. Si vous avez des questions au sujet de l'étude, veuillez consulter notre site web www.alfred-plantagenet.com ou communiquer directement avec une des personnes ci-dessous.



POUR EN SAVOIR PLUS. CONSULTEZ

> www.alfredplantagenet.com

Jordan Morrissette, M.Eng., P.Eng. Ingénieur senior en environnement J.L. Richards & Associates Ltd. 343 rue Preston, tour II, suite 1000 Ottawa, ON K1S 1N4 jmorrissette@jlrichards.ca

Tél: 343-804-5379

Jonathan Gendron, P.Eng. Directeur de la construction, l'aménagement du territoire, l'ingénierie et de l'environnement Canton d'Alfred et Plantagenet 205 Vieille route 17, Case postale 350, Plantagenet, ON K0B 1L0 igendron@alfred-plantagenet.com

Tél.: 613-673-4797, poste 226

Cette étude est réalisée en vertu des dispositions de l'annexe C du processus d'évaluation environnementale municipale de portée générale (octobre 2000, modifiée en 2023).

Cet avis a été publié le 27 avril 2023 et 4 mai 2023.

Double homicide à Hawkesbury-Est

Noé Cloutier



a Police provinciale de l'Ontario (OPP) et la Sûreté du Québec (SQ) poursuivent leur enquête en lien avec le double meurtre mis en lumière au matin du 19 avril à Hawkesbury-Est. Les corps policiers ont ainsi confirmé avoir finalement identifié les deux victimes, le 25 avril suivant.

Les victimes sont Sherri Buchannan (50 ans) et Darren Chisholm (24 ans), toutes deux retrouvées sans vie dans le d'un pistolet à impulsion électrique. secteur de Chute-à-Blondeau.

Le présumé auteur de ce crime, les victimes, avait été arrêté en soirée de la même journée de la découverte du crime et fait maintenant face à deux chefs d'accusation de meurtre au premier

Arrestation troublante

Selon ce qu'a d'abord rapporté Maxime Deland de TVA Nouvelles, c'est à la suite d'un délit de fuite et d'une tentative de meurtre que l'accusé aurait été arrêté, en Montérégie au Québec.

Selon ces mêmes informations, l'homme de 22 ans circulait avec son camion sur l'autoroute 30, tout près de la municipalité de Les Cèdres. Il aurait

abandonné son véhicule tout près d'un poste de péage, pour tenter d'embarquer dans la remorque d'un autre camion. Il aurait ensuite attaqué le camionneur du véhicule en question, lui infligeant des blessures ne mettant toutefois « pas sa vie en danger ».

Après que la victime ait réussi à prendre la fuite, les autorités sont arrivées sur place et ont retrouvé Gavin Chisholm « complètement nu, désorganisé, caché dans la remorque du camion ». Ils ont finalement procédé à son arrestation, non pas sans résistance, à l'aide

Crime familial

Depuis la découverte de la scène Gavin Chisholm (22 ans), parenté avec de crime, plusieurs rumeurs circulent comme quoi le double meurtre en question serait un crime familial. L'identification des victimes aura finalement confirmé qu'il s'agissait bel et bien de la mère et du grand frère de Gavin Chisholm.

> L'OPP rappelle d'ailleurs que toute personne ayant une information susceptible de faire avancer l'enquête peut contacter son détachement de Hawkesbury au 1-888-310-1122. L'organisme Crime Stoppers peut aussi être une ressource à contacter par téléphone au 1-800-222-8477 (TIPS) et en ligne à crimestoppers.ca.

Une plateforme pour l'entrepreneuriat féminin

Noé Cloutier Prescott-Russell

a Société de développement communautaire de Prescott-Russell (SDCPR) a lancé la toute nouvelle plateforme Destination Fempreneure, le 18 avril. Un programme virtuel et bilingue visant à « rassembler et promouvoir » les entrepreneures de la région.

« Notre mission est de soutenir le démarrage, la croissance et le développement des entreprises dirigées par des femmes afin de répondre aux besoins actuels de l'écosystème entrepreneurial de notre région », indique Karianne Simard, coordonnatrice de projets pour la SDCPR.

À noter que puisque le financement du projet provient de l'Agence fédérale de développement économique pour le Sud de l'Ontario (FedDev Ontario), la plateforme s'adresse non seulement aux entrepreneures de Prescott-Russell, mais aussi à celles de Toronto et de ses environs, via l'Initiative des Femmes Entrepreneures du Sud de l'Ontario (IFESO)

Être « sur la map »

L'idée de la SDCPR demeure tout de même de s'adresser à la population qu'elle dessert, c'est-à-dire celle de Prescott-Russell. À cet effet, sa plateforme vise donc à offrir différents services tels qu'un réseau d'entrepreneures, une carte interactive, un coin de réseautage et d'événements, une boîte à outils, des vidéos, un portail de soutien,

ainsi que des programmes de financement et de contributions.

Au cœur du projet, plus d'une centaine d'entreprises menées par des femmes se retrouve sur sa carte interactive. La majorité d'entre elles sont dans Prescott-Russell. notamment 27 à Hawkesbury, ainsi qu'une vingtaine d'autres de répertoriées dans les cantons de Champlain et d'Alfred-Plantagenet, notamment.

« On l'a élaboré avec une base de données d'entreprises qui avaient fait affaire avec nous auparavant, mais c'est clair qu'elles ne sont pas encore toutes répertoriées et qu'on veut faire un travail continu pour en ajouter », précise Karianne Simard.

Première du genre

C'est d'abord en constatant qu'aucune plateforme du genre n'existait dans la région que la SDCPR s'est a mis le projet en branle : « Ça fait un petit bout qu'on y travaille, on avait commencé l'été passé », raconte la coordonnatrice de projets.

Si la SDCPR s'est lancé dans cette « première », c'est que comme la carte le démontre, soutenir l'entrepreneuriat féminin équivaut à soutenir près d'une centaine d'entreprises et donc l'économie prospère pour la région.

Ainsi, pour découvrir et encourager les entrepreneures d'ici, ou bien pour consulter les outils qui sont à leur disposition, le public peut se rendre sur le site web de la plateforme à l'adresse destinationfempreneur.ca.

Avis de Séance d'Information Publique # 1



Canton d'Alfred et Plantagenet System d'eaux usées de Plantagenet Étude environnementale de portée générale Annexe C

Le Canton d'Alfred et Plantagenet entreprend une étude environmentale de portée générale pour déterminer les options d'agrandissement et/ou d'amélioration du système de collection et de traitement d'eaux usées du village de Plantagenet.

En quoi cela vous concerne?

L'étude examinera les besoins actuels et futurs du système de collection et de traitement d'eaux usées de Plantagenet, y compris les égouts sanitaires, les stations de pompage, l'étang d'épuration et la conduite d'évacuation, et évaluera des alternatives pour répondre aux besoins du Canton.

La consultation des partis prenants fait partie intégrante de l'étude. Vos commentaires aideront à identifier la solution préférée

Nous voulons votre avis!

L'étude comprendra deux (2) séances d'information publique. La première séance identifiera les problèmes et/ou les opportunités, et discutera des alternatives possibles. La deuxième séance d'information publique, prévue pour plus tard en 2023, identifiera et discutera des concepts proposés pour la solution préférée

La première séance d'information publique aura lieu :

Date: Heure: Adresse: Mercredi, 10 mai 2023 Porte ouverte de 18:00 - 20:00

Centre Communautaire Plantagenet, 220 rue Main, Plantagenet, ON

Tous ceux qui sont intéressés dans ce project sont priés de venir participer. Si vous avez des questions au sujet de l'étude, veuillez consulter notre site web www.alfred-plantagenet.com ou communiquer directement avec une des personnes ci-dessous.



POUR EN SAVOIR PLUS. CONSULTEZ www.alfredplantagenet.com

Jordan Morrissette, M.Eng., P.Eng. Ingénieur senior en environnement J.L. Richards & Associates Ltd. 343 rue Preston, tour II, suite 1000 Ottawa, ON K1S 1N4 jmorrissette@jlrich Tél: 343-804-5379 gilrichards.ca

Jonathan Gendron, P.Eng. Directeur de la construction. l'aménagement du territoire, l'ingénierie et de l'environnement Canton d'Alfred et Plantagenet 205 Vieille route 17, Case postale 350, Plantagenet, ON K0B 1L0 igendron@alfred-plantagenet.c Tél.: 613-673-4797, poste 226

SP #1

SP #2

Cette étude est réalisée en vertu des dispositions de l'annexe C du processus d'évaluation environnementale municipale de portée générale (octobre 2000, modifiée en 2023).

Cet avis a été publié le 27 avril 2023 et 4 mai 2023.

Notice of Public Open House # 1



Township of Alfred and Plantagenet Plantagenet Wastewater System Schedule 'C' Municipal Class Environmental Assessment

The Township of Alfred and Plantagenet initiated a Municipal Class Environmental Assessment (Class EA) in December 2021 to evaluate alternatives to potentially expand and/or upgrade the Village of Plantagenet Wastewater System.

How Will This Affect Me?

The study will assess current and future requirements of the Plantagenet Wastewater System, including the sewage pumping stations, forcemains, lagoon and effluent piping, and will evaluate various alternatives to address the Township's

Public consultation is a key element of the process, and your input will be an important consideration in the selection of a preferred solution and design concept.



We Want to Hear From You!

As part of the proposed consultation plan, two (2) Public Information Centres (PICs) will be held during the study. PIC No. 1 will identify the system's existing problems and/or opportunities and will identify and solicit feedback on potential alternative solutions that are being considered. PIC No. 2, which is anned for later in 2023, will identify and solicit feedback on alternative design concepts for the preferred solution.

The Open House (or Public Information Centre) is scheduled as follows:

Date: Time: Location:

Wednesday, May 10, 2023 Open House from 6:00 p.m. – 8:00 p.m. Plantagenet Community Centre, 220 Main Street, Plantagenet, ON

All those interested in the project are urged to attend. Project information will also be available on the Township website, www.alfred-plantagenet.com/en. If you have any questions or input to provide regarding the study, you are invited to contact a member of the study team. We welcome your feedback. Jordan Morrissette, M.Eng., P.Eng.



TO FIND OUT MORE VISIT www.alfred-plantagenet.com

Senior Environmental Engineer J.L. Richards & Associates Limited 343 Preston Street, Tower II, Suite Ottawa Ontario K1S 1N4 Phone: 343-804-5379

jmorrissette@jlrichards.ca

Director of Building, Planning, Engineering, and Environment Township of Alfred & Plantagenet 205 Old Highway 17, P.O. Box 350, Plantagenet, ON K0B 1L0 Phone: 613-673-4797 ext. 226 jgendron@alfred-plantagenet.com

Jonathan Gendron, P.Eng.

This study is being conducted according to the requirements of a Schedule C project under the Municipal Class Environmental Assessment process (October 2000, as amended in 2023)

This Notice issued was issued on April 27, 2023 and May 4, 2023.

Notice of Public Open House # 1



Township of Alfred and Plantagenet Plantagenet Wastewater System Schedule 'C' Municipal Class Environmental Assessment

The Township of Alfred and Plantagenet initiated a Municipal Class Environmental Assessment (Class EA) in December 2021 to evaluate alternatives to potentially expand and/or upgrade the Village of Plantagenet Wastewater System.

How Will This Affect Me?

The study will assess current and future requirements of the Plantagenet Wastewater System, including the sewage pumping stations, forcemains, lagoon and effluent piping, and will evaluate various alternatives to address the Township's

Public consultation is a key element of the process, and your input will be an important consideration in the selection of a preferred solution and design concept.

SPS #1 ..

We Want to Hear From You!

As part of the proposed consultation plan, two (2) Public Information Centres (PICs) will be held during the study. PIC No. 1 will identify the system's existing problems and/or opportunities and will identify and solicit feedback on potential alternative solutions that are being considered. PIC No. 2, which is planned for later in 2023, will identify and solicit feedback on alternative design concepts for the

The Open House (or Public Information Centre) is scheduled as follows

Date: Time:

Wednesday, May 10, 2023 Open House from 6:00 p.m. – 8:00 p.m.

Location:

Plantagenet Community Centre, 220 Main Street, Plantagenet, ON

All those interested in the project are urged to attend. Project information will also be available on the Township website, www.alfred-plantagenet.com/en. If you have any questions or input to provide regarding the study, you are invited to contact a member of the study team. We welcome your feedback.



TO FIND OUT MORE VISIT www.alfred-plantagenet.com

4

/ MAY

MA

Jordan Morrissette, M.Eng., P.Eng. Senior Environmental Engineer J.L. Richards & Associates Limited 343 Preston Street, Tower II. Suite 1000 Ottawa Ontario K1S 1N4

Phone: 343-804-5379 jmorrissette@jlrichards.ca Jonathan Gendron, P.Eng. Director of Building, Planning, Engineering, and Environment Township of Alfred & Plantagene 205 Old Highway 17, P.O. Box 350, Plantagenet, ON K0B 1L0 Phone: 613-673-4797 ext. 226 jgendron@alfred-plantagenet.com

This study is being conducted according to the requirements of a Schedule C project under the Municipal Class Environmental Assessment process (October 2000, as amended in 2023).

This Notice issued was issued on April 27, 2023 and May 4, 2023.

Avis de Séance d'Information Publique # 1



Canton d'Alfred et Plantagenet System d'eaux usées de Plantagenet Étude environnementale de portée générale Annexe C

Le Canton d'Alfred et Plantagenet entreprend une étude environmentale de portée générale pour déterminer les options d'agrandissement et/ou d'amélioration du système de collection et de traitement d'eaux usées du village de Plantagenet.

En quoi cela vous concerne?

L'étude examinera les besoins actuels et futurs du système de collection et de traitement d'eaux usées de Plantagenet. compris les égouts sanitaires, les stations de pompage, l'étang d'épuration et la conduite d'évacuation, et évaluera des alternatives pour répondre aux besoins du Canton.

La consultation des partis prenants fait partie intégrante de l'étude. Vos commentaires aideront à identifier la solution

Nous voulons votre avis!

L'étude comprendra deux (2) séances d'information publique. La première séance identifiera les problèmes et/ou les opportunités, et discutera des alternatives possibles. La deuxième séance d'information publique, prévue pour plus tard en 2023, identifiera et discutera des concepts proposés pour la solution préférée.

La première séance d'information publique aura lieu

Heure:

Mercredi. 10 mai 2023 Porte ouverte de 18:00 - 20:00

Date: Adresse:

Centre Communautaire Plantagenet, 220 rue Main, Plantagenet, ON

Tous ceux qui sont intéressés dans ce project sont priés de venir participer. Si vous avez des questions au sujet de l'étude, veuillez consulter notre site web www.alfred-plantagenet.com ou communiquer directement avec une des personnes ci-dessous.



CONSULTEZ www.alfredplantagenet.com

Jordan Morrissette, M.Eng., P.Eng. Ingénieur senior en environnement J.L. Richards & Associates Ltd. 343 rue Preston, tour II, suite 1000 Ottawa, ON K1S 1N4 jmorrissette@jlrichards.ca Tél: 343-804-5379

Jonathan Gendron, P.Eng. Directeur de la construction l'aménagement du territoire, l'ingénierie et de l'environnement Canton d'Alfred et Plantagenet 205 Vieille route 17, Case postale 350, Plantagenet, ON K0B 1L0 igendron@alfred-plantagenet.com Tél.: 613-673-4797, poste 226

SP #1

SP #2

Cette étude est réalisée en vertu des dispositions de l'annexe C du processus d'évaluation environnementale municipale de portée générale (octobre 2000, modifiée en 2023).

Cet avis a été publié le 27 avril 2023 et 4 mai 2023.





31 143 COPIES IMPRIMÉES



facebook.com/letheRegional



Canton d'Alfred et Plantagenet / Township of Alfred and Plantagenet

Published by Simon SD @ · 9 May · 🚱

Avis aux résidents / Notice to residents

Il y aura une séance d'information publique en lien avec l'étude envrionnementale de portée générale du système d'eaux usées de Plantagenet demain le 10 mai 2023 au Centre Communautare de Plantagenet (220 rue Main) de 18h à 20h.

Tous ceux qui sont intéressés dans ce projet sont priés de venir participer.

There will be a public information session in regards to the Plantagenet Wastewater System Class Environmental Study tomorrow, May 10, 2023 at the Plantagenet Community Centre (220 Main Street) from 6:00 p.m. to 8:00 p.m.

All those interested in this project are invited to attend.

Avis de Séance d'Information Publique # 1



Canton d'Alfred et Plantagenet Système d'eaux usées de Plantagenet Étude environnementale de portée générale Annexe C

Le Canton d'Alfred ef Plantagenet entreprend une étude environmentale de portée générale pour déterminer les options d'agrandissement obtu d'amélioration du système de collection et de traitement d'eaux usées du village de Plantagenet

En quoi cela vous concerne?

L'étude examinera les besoins actuels et futurs du système de collection et de traitement d'eaux usées de Plantagenet, y compris les ógeuts sanitaires, les statiens de pempage, l'étang d'épuration et la conduite d'éveu

La consultation des partis prenents fait partie intégrants de l'étude. Vos commentaires aiderent à identifier la solution préfèrée.

Nous voulons votre avis!

L'étude cemprendra deux (2) séances d'information publique. La première séance identifiera les problèmes et/ou les opportunités, et discutera des attenutires pessoitées. La deuxième séance d'information publique, prévue pour plus tand en 2023, identifiera et discuriera des concepts proposés pour la solution préférée.

La première séance d'information publique aura lieu :

Mercredi, 10 mai 2023

Heure: Porte ouverte de 18:00 – 20:00
Adresse: Centre Communautaire Plantagenet, 220 rue Main, Plantagenet, ON

Tous œux qui sont intéressés dans ce projet sont priés de venir participer. Si vous avez des questions au sujet de l'étude, veuillez consulter notre sits web <u>www.alfred-plantagenet.com</u> ou communiquer directement avec une des personnes ci-dessous.



Jordan Montssette, M.Eng., P.Eng. Jonathan Gendron, P.Eng. Ingénieur senior en environnement Directeur de la construction

Notice of Public Open House # 1



Township of Alfred and Plantagenet Plantagenet Wastewater System Schedule 'C' Municipal Class Environmental Assessment

The Township of Alfred and Plantagenet initiated a Municipal Class Environmental Assessment (Class EA) in December 2021 to evaluate alternatives to potentially expand and/or upgrade the Village of Plantagenet Westerwater System.

How Will This Affect Me?

The study will assess current and future requirements of the Plantagenet Wastemater Systems including the sewage pumping stations, forcemains, lagoon and effluent piping, and will evaluate various alternatives to address the Touriship's

Public consultation is a key element of the process, and your input will be an important consideration in the selection of a preferred solution and design concept.



We Want to Hear From You!

As part of the proposed consultation plan, two (2) Public information Centres (PICs) will be held during the study. PIC No. 1 will identify the system's existing problems and/or apportunities and will identify and solicit feedback on potential atternative solicions that are being considered. PIC No. 2, which is planned for later in 2023, will identify and solicit feedback on alternative design concepts for the preferred solution.

The Open House (or Public Information Centre) is scheduled as follows:

Date: Wednesday, May 10, 2023
Time: Open House from 6.09 p.m. – 8:90 p.m.
Location: Plantagenet Community Centre, 229 Main Street, Plantagenet, ON

All those interested in the project are urged to attend. Project information will also be available on the Township website, <u>www.afred-stantagenet.com</u>. If you have any questions or input to provide regarding the study, you are invited to contact a member of the study team. We welcome your feedback.



Jordan Morrissette, M.Eng., P.Eng. Jonathan Gendron, P.Eng.



Township of Alfred and Plantagenet Plantagenet Wastewater System Schedule C Municipal Class Environmental Assessment Public Information Centre No. 1

Canton d'Alfred et Plantagenet System d'eaux usées de Plantagenet Étude environnementale de portée générale Annexe C Séance d'information publique N°1



May 10, 2023

Sign-in Sheet

10 mai 2023

Feuille de presence

	Please	Print	Clearly	/S'il	vous	plait	imprimer	clairemen
--	--------	-------	---------	-------	------	-------	----------	-----------

iodos Frint Giodify 7 o il Vodo piat imprimor dianomoria							
Name / Nom	Address / Adresse	Postal Code / Code postal	Email / couriel électronique	Telephone / Téléphone			
Three (3) members of the public attended PIC	Three (3) members of the public attended PIC No. 1, as noted in Appendix D. Personal information has been hidden.						
	V						
Claire Lemay	South Nation Conservation		Clemay@nation.on.ca				
N. Carlotte and Ca							

PUBLIC OPEN HOUSE NO. 1



Township of Alfred and Plantagenet
Plantagenet Wastewater System
Schedule "C" Municipal Class Environmental Assessment

May 10th, 2023, 6:00 to 8:00 p.m.
Plantagenet Community Center
220 Main Street
Plantagenet, Ontario

COMMENTS SHEET

(Please return by May 19th, 2023)

_

Please return to:

Village of Plantagenet Schedule 'C' Class EA c/o J.L. Richards & Associates Limited 343 Preston Street, Tower II, Suite 1000 Ottawa, ON K1S1N4

Tel: 613-728-3571

Electronic-mail: jmorrissette@jlrichards.ca

igendron@alfred-plantagenet.com

SÉANCE D'INFORMATION PUBLIQUE N°1



Canton d'Alfred et Plantagenet Système d'eaux usées de Plantagenet Étude environnementale de portée générale Annexe 'C'

> 10 mai 2023, 18:00 à 20:00 Centre Communautaire Plantagenet 220 rue Main Plantagenet, Ontario

COMMENTAIRES

(S'il-vous-plaît, veuillez retourner par vendredi, le 19 mai 2023)

NOM:	
NO. DE TÉLÉPHONE :	
ADRESSE :	
COMMENTAIRES:	

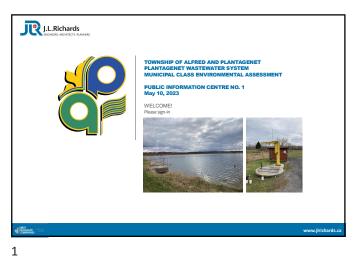
S'il-vous-plaît, veuillez retourner à:

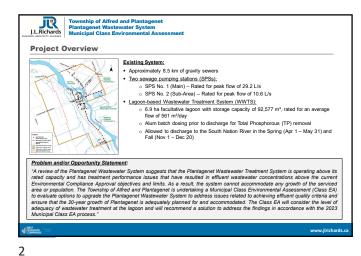
Village de Plantagenet Étude environnementale de portée générale Annexe 'C' c/o J.L. Richards & Associates Limited 343 Preston Street, Tower II, Suite 1000 Ottawa, ON K1S1N4

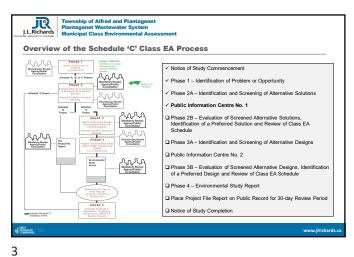
Tel: 613-728-3571

Couriel électronique: jmorrissette@jlrichards.ca

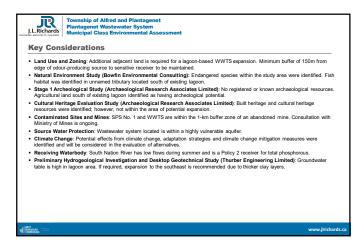
jgendron@alfred-plantagenet.com







Township of Alfred and Plantagenet Plantagenet Wastewater System Municipal Class Environmental Asse **Existing Conditions and Performance** Raw wastewater is characterized as medium strength. Raw wastewater is characterized as medium strengtin.
 Wastewater treatment system is operating 13% shove rated capacity (747 m²/day vs. 561 m²/day).
 Annual effluent flow is significantly lower than annual influent flow. This is likely mainly due to lagoon seepage, but also may be due in part to flow measurement error and estimation of effluent flow. Â Regular exceedances of 5-day biochemical oxygen demand (BOD₅) and Total Suspended Solids (TSS). Occasional exceedances of Total Phosphorous (TP). Operational challenges and constraints stemming from lack of system capacity, high levels of algae in the lagoon and due to lagoon only having a single cell. Sanitary sewer capacity restrictions upstream of the river crossing (MH-4). Dry weather groundwater infiltration represents over 20% of the total influent flow. Areas A2 and A4 most susceptible.
 Collection system is susceptible to high volumes of wet weather inflow and infiltration



Township of Alfred and Plantagenet
Plantagenet Wastewater System
Municipal Class Environmental Assess ..Richards **Growth and Flow Projections** Growth projections and potential development determined in consultation with Township Table 1 : Serviced Population Projections to 2042 (ii Phase 3 – Build-Out (Post-2042)

Build-Out Growth: 11,034 Table 2: Serviced ICI La | Description: | Cl. Area (ba) | Growth (ba) WASTEWATER TREATMENT SYSTEM

6

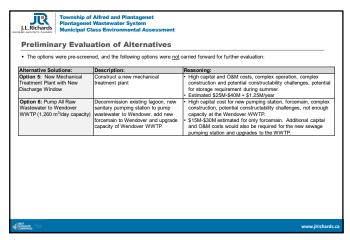
4

1





7 8



Township of Alfred and Plantagenet
Plantagenet Wastewater System
Municipal Class Environmental Assessment

Screened Alternative Solutions

Note Options 3A and 3B were included within Options 4A and 4B, respectively. Options 2A to 2D are included as additional options to be considered in combination with Options 4A and 4B.

Option 1: Do Nothing
No improvements. Represents the baseline condition.
Option 4A: Expand Plantagenet WWTS with Additional Lagoon Storage and Specialized Treatment System(s) using Existing Discharge Windows (April 1 – May 31 and November 1 – December 20).

Expand storage capacity of WWTS by adding additional lagoons for both storage and treatment, and add new specialized treatment system(s) for enhanced treatment prior to seasonal discharge in the Spring (April 01 to May 31) and Fall (November 1 to December 20).

Option 4B: Expand Plantagenet WWTS with Additional Lagoon Storage and Specialized Treatment System(s) using New Discharge Window (October 1 – May 31)

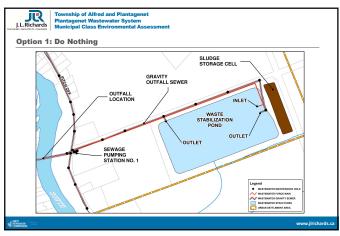
Expand storage capacity of WWTS by adding additional lagoons for both storage & treatment and add new specialized treatment system(s) for enhanced treatment prior to discharge from October 1 to May 31. Specialized Treatment system to be capable of effective treatment diving cold weather.

Additional Options to be Considered in Combination with Option 4A or Option 4B:

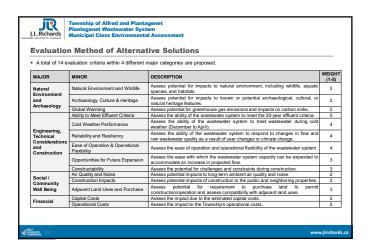
A. Modify dimensions of existing facultative lagoon.

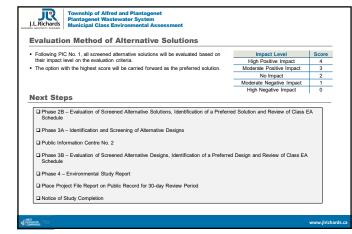
C. Convert part or all the existing facultative lagoon.

D. Add in-line coagulation and/or pH adjustment.



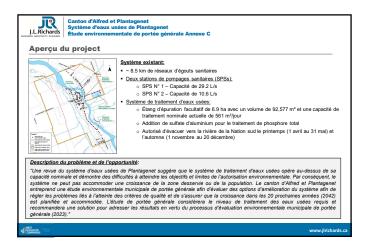


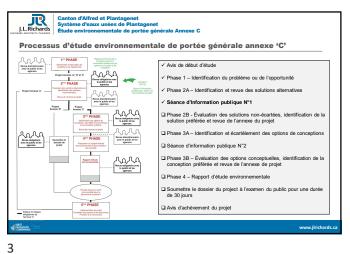












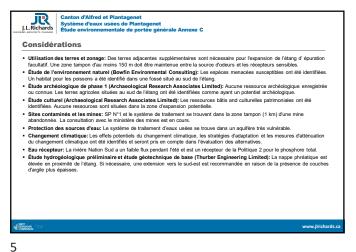
Canton d'Alfred et Plantagenet Système d'eaux usées de Plantagenet **Conditions et Performance Existantes** Les eaux usées brutes sont caractérisées comme étant de force movenne moyenne.

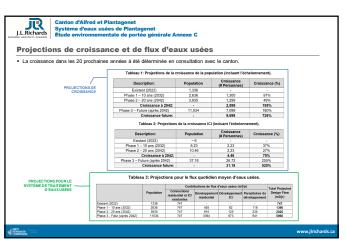
Le système de traitement d'eaux usées opère au-dessus de sa capacité nominale (747 m²)our par rapport à 561 m²/jour).

Le flux annuel des effluents est nettement inférier us flux annuel des influents. Cel écart est probablement en raison de suintement du fond de l'étang, une inexactitude en mesure du flux, et/ou dans l'estimation du montant d'effluent. Â l'estimation du montant d'effluent. Des dépassement réquilers de la demande biochimique en oxygène à 5 jours (DBQ), et des matières en suspension totales (MES). Dépassements cocasionnets du phosphor total (PT). Difficultés et contraintes opérationnelles liées au manque de capacité du système, aux inveaux élevés d'âgues dans l'étang et auf att que l'étang d'épuration n'a qu'une seule cellule. Restrictions de capacité des égoux en amont de la traversée de la rivière (MH-4). nwere (wm-a).

L'infiltration des eaux souterraines en temps sec représente plus de 20% du flux total. Les zones A2 et A4 sont les plus susceptibles.

Le système de réseaux d'égouts sanitaires est susceptible en temps de pluie aux volumes élevés d'afflux et d'infiltration des eaux souterraines. UPBAN SETTLEMENT UPBAN SETTLEMENT AREA -2002 HOME OFFICAL PLAN

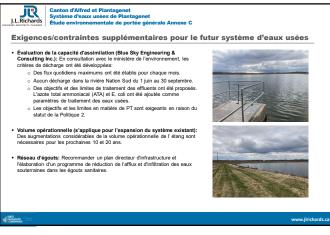




6

4

2



Canton d'Alfred et Plantagenet
Système d'eaux usées de Plantagenet
Etude environnementale de portée générale Annexe C

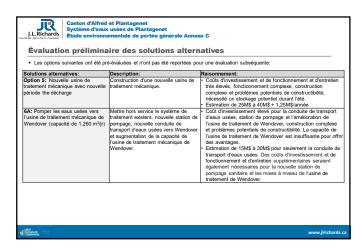
Liste préliminaire des solutions alternatives potentielles

- Liste initiale de solutions alternations

- Liste initiale de solutions

- Lis

7 8



Canton d'Alfred et Plantagenet
Système d'eaux usées de Plantagenet
Eutre environnementale de portée générale Annexe C

Solutions alternatives non-écartées

• Notez que les options 3A and 3B ont été inclus dans les options 4A et 4B, respectivement. Les options 2A à 2D ont été inclus en tant que options supplémentaires à considérer en combinaison avec les options 4A et 4B.

Option 1: Ne faire rien
Pas d'amélioration. Représente l'état de référence.

Option 4: Expansion du système de traitement Plantagenet avec l'ajout de cellules de stockage (étangs d'épuration) et traitement(s) spécializé(s), en utilisant les periodes de décharges existantes (1 avril au 31 mai et 1 novembre au 20 décembre).

Augmenter la capacité de solucique na ejudant des cellules facultatives ou d'áération pour le stockage et le traitement et ajouter un overwher au 20 décembre).

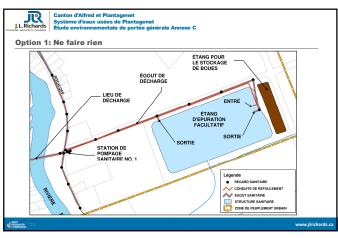
Option 4B: Expansion du système de traitement épécialisés avant la décharge a printemps (du 1 avril au 31 mai) et à faultomne (du 1 novembre au 20 décembre).

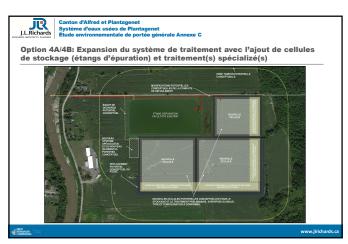
Option 4B: Expansion du système de traitement Plantagenet avec l'ajout de cellules de stockage (étangs d'épuration) et traitement(s) spécializé(s), en utilisant une nouvelle période de décharge (1 octobre au 31 mai).

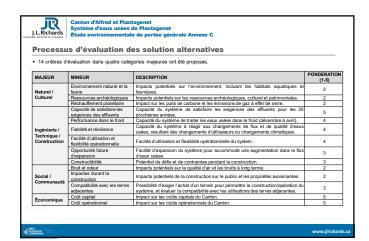
Augmenter la capacité de stockage en ajoutant des cellules facultatives ou d'áération pour le stockage et le traitement et pécialisés avant la décharge du 1 octobre au 31 mai. Le système de traitement spécialisés avant la décharge du 1 octobre au 31 mai. Le système de traitement spécialisés avant la décharge du 1 octobre au 31 mai. Le système de traitement spécialisés avant la décharge du 1 octobre au 31 mai. Le système de traitement spécialisés avant la décharge du 1 octobre au 31 mai. Le système de traitement spécialisés avant la décharge du 1 octobre au 31 mai. Le système de traitement spécialisés avant la décharge du 1 octobre au 31 mai. Le système de traitement spécialisés avant la décharge du 1 octobre au 31 mai. Le système de traitement spécialisés avant la décharge du 1 octobre au 31 mai.

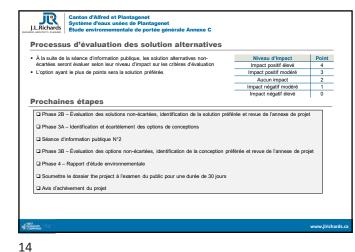
10

9

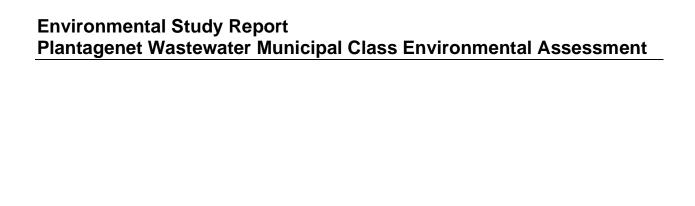












Appendix D7

Public Information Centre No. 2 – Notice, Presentation and Attendance Sheet

NOTE: This email (and attachments) is representative of all emails delivered to stakeholders.

Nicolas Bialik

From: Camila Valcarcel

Sent: Friday, October 20, 2023 1:44 PM

To: info@eohu.ca

Cc: Nicolas Bialik; Jordan Morrissette; JGendron@alfred-plantagenet.com

Subject: Plantagenet Wastewater Schedule 'C' Class EA Consultation - Notice of PIC No. 2

Attachments: 31457 - Plantagenet Class EA - PIC2_Eastern Health Unit.pdf

Hello,

Please find attached letter and notice of Public Information Centre (PIC) No. 2 for the Plantagenet Wastewater Class Environmental Assessment (EA). As a key stakeholder for this study, you are invited to attend the PIC, which is occurring November 6, 2023, between 6pm – 8pm in Plantagenet, Ontario. Additional details on the PIC and on study progress are provided in the attached letter and notice.

Should you have any questions or feedback, please do not hesitate to respond to this email or contact either of the two (2) project contacts found in the attached notice.

We look forward to hearing from you.

Regards,



J.L. Richards & Associates Limited 343 Preston Street Tower II, Suite 1000 Ottawa Ontario K1S 1N4 613 728 3571 www.jlrichards.ca

October 20, 2023 Our File No.: 31457-000

VIA: E-MAIL info@eohu.ca

Eastern Health Unit 1000 Pitt St Cornwall ON K6J 5T1

Re: Notice of Public Open House (Information Centre) No. 2
Plantagenet Wastewater Schedule 'C' Municipal Class Environmental Assessment

This letter is intended to notify you of an upcoming Public Open House (PIC) where the public, agencies and indigenous communities will have the opportunity to learn more about the above-noted study and have further opportunity to provide feedback. The Open House (PIC No. 2) will be held the evening of November 6th, 2023, at the Township Hall, as described in the attached notice.

Feedback received during PIC No. 1, held on May 10, 2023, helped develop the preferred solution for the Plantagenet Wastewater Treatment System (WWTS): *Expansion of WWTS with additional lagoon storage and specialized treatment system(s) using a new expanded discharge window (October 1 to May 31).*

PIC No. 2 will identify and solicit feedback on the preferred design concept for expansion of the WWTS, which was developed following the evaluation (based on several criteria, including cost and technical feasibility) of the following four (4) screened alternative design concepts:

- Option 1: Submerged Biological Reactors + Filter + Additional Lagoon Storage
- Option 2: MBBR + Filter + Additional Lagoon Storage
- Option 3: SAGR + Filter + Additional Lagoon Storage
- Option 4: SAGR + TPM Program Participation + Additional Lagoon Storage

If you have any questions or concerns, please do not hesitate to contact the undersigned.

Yours very truly,

J.L. RICHARDS & ASSOCIATES LIMITED

Jordan Morrissette, M.Eng., P.Eng.

Joda Horssett

Associate, Senior Environmental Engineer

cc: Jonathan Gendron, Township of Alfred & Plantagenet

Attachments: Notice of Public Open House #2



Notice of Public Open House # 2



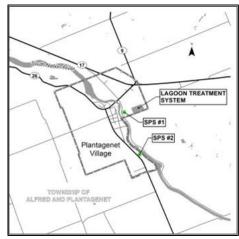
Township of Alfred and Plantagenet Plantagenet Wastewater System Schedule 'C' Municipal Class Environmental Assessment

The Township of Alfred and Plantagenet initiated a Municipal Class Environmental Assessment (Class EA) in December 2021 to evaluate alternatives to potentially expand and/or upgrade the Village of Plantagenet Wastewater System.

How Will This Affect Me?

The study will assess current and future requirements of the Plantagenet Wastewater System, including the sewage pumping stations, forcemains, lagoon and effluent piping, and will evaluate various alternatives to address the Township's needs.

Public consultation is a key element of the process, and your input will be an important consideration in the selection of a preferred solution and design concept.



We Want to Hear From You!

Public Information Centre (PIC) No. 1, held on May 10, 2023, identified the system's existing problems and/or opportunities, and identified several potential alternative solutions. Using feedback received during PIC No. 1, the following preferred solution was identified for the Plantagenet Wastewater Treatment System (WWTS): *Expansion of WWTS with additional lagoon storage and specialized treatment system(s) using a new expanded discharge window (October 1 to May 31).* PIC No. 2 will identify and solicit feedback on the current preferred design concept for the preferred solution. This public open house will summarize the alternative design concepts considered and the evaluation process undertaken to develop the preferred design concept.

The Open House (or Public Information Centre) is scheduled as follows:

Date: Monday, November 6, 2023

Time: Open House from 6:00 p.m. – 8:00 p.m.

Location: Township Hall, 205, Old Highway 17, Plantagenet, ON

All those interested in the project are urged to attend. Project information will also be available on the Township website, www.alfred-plantagenet.com. If you have any questions or input to provide regarding the study, you are invited to contact a member of the study team. We welcome your feedback.



TO FIND OUT MORE VISIT

www.alfred-plantagenet.com

Jordan Morrissette, M.Eng., P.Eng. Senior Environmental Engineer J.L. Richards & Associates Limited 343 Preston Street, Tower II, Suite 1000

Ottawa Ontario K1S 1N4 Phone: 343-804-5379 imorrissette@ilrichards.ca Jonathan Gendron, P.Eng.
Director of Building, Planning,
Engineering, and Environment
Township of Alfred & Plantagenet
205 Old Highway 17, P.O. Box 350,
Plantagenet, ON K0B 1L0
Phone: 613-673-4797 ext. 226
igendron@alfred-plantagenet.com

This study is being conducted according to the requirements of a Schedule C project under the Municipal Class Environmental Assessment process (October 2000, as amended in 2023).

This Notice was issued on October 19, 2023, and October 26, 2023.

Avis de séance d'information publique # 2



Canton d'Alfred et Plantagenet Système d'eaux usées de Plantagenet Étude environnementale de portée générale annexe C

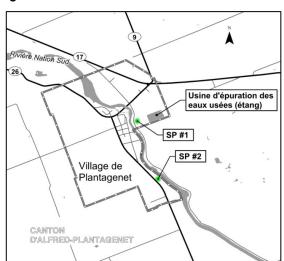
Le Canton d'Alfred et Plantagenet entreprend une étude environnementale de portée générale pour déterminer les options d'agrandissement et/ou d'amélioration du système de collecte et de traitement d'eaux usées du village de Plantagenet.

En quoi cela vous concerne?

L'étude examinera les besoins actuels et futurs du système de collecte et de traitement d'eaux usées de Plantagenet, y compris les égouts sanitaires, les stations de pompage, l'étang d'épuration et la conduite d'évacuation, et évaluera des alternatives pour répondre aux besoins du Canton.

La consultation des parties prenantes fait partie intégrante de l'étude. Vos commentaires aideront à identifier la solution et les concepts préférés.

Nous voulons votre avis!



La première séance d'information publique, tenue le 10 mai 2023, a identifié les problèmes et/ou les opportunités, et a discuté de plusieurs alternatives possibles. À l'aide des commentaires reçus au cours de la première séance, la solution préférée suivante a été identifiée: *Expansion du système de traitement Plantagenet avec l'ajout de cellules de stockage (étangs d'épuration) et traitement(s) spécialisés en utilisant une nouvelle période de décharge (1er octobre au 31 mai)*. La deuxième séance d'information publique identifiera et discutera le concept préféré pour la solution préférée. Cette séance résumera les concepts alternatifs considérés et le processus d'évaluation entrepris.

La séance d'information publique aura lieu :

Date et Heure: Lundi 6 novembre 2023. Portes ouvertes de 18h00 – 20h00 Adresse: Hôtel de ville, 205 Vieille Route 17, Plantagenet, ON

Tous ceux qui sont intéressés dans ce projet sont priés de venir participer. Si vous avez des questions au sujet de l'étude, veuillez consulter notre site web www.alfred-plantagenet.com ou communiquer directement avec une des personnes ci-dessous.



POUR EN SAVOIR PLUS, CONSULTEZ www.alfred-

plantagenet.com

Jordan Morrissette, M.Eng., P.Eng. Ingénieur senior en environnement J.L. Richards & Associates Ltd. 343 rue Preston, tour II, suite 1000 Ottawa, ON K1S 1N4

<u>imorrissette@jlrichards.ca</u> Tél: 343-804-5379 Jonathan Gendron, P.Eng.
Directeur de la construction,
l'aménagement du territoire,
l'ingénierie et de l'environnement
Canton d'Alfred et Plantagenet
205 Vieille route 17, Case postale 350,
Plantagenet, ON K0B 1L0
igendron@alfred-plantagenet.com
Tél.: 613-673-4797

Cette étude est réalisée en vertu des dispositions de l'annexe C du processus d'évaluation environnementale municipale de portée générale (octobre 2000, modifiée en 2023).

Cet avis a été publié le 19 et 26 octobre 2023.

AtkoreEDE Composites

FRE Composites

FRE Composites, situé à Saint-André d'Argenteuil, est à la recherche de

JOURNALIER PRIME D'EMBAUCHE 1000\$!!

- > Poste de journalier de production
- > 40h/semaine
- Salaire : 19,52\$ à 27,35\$
- > Prime de soir et de nuit
- Doit être disponible jour/soir/nuit
- > Assurances (50% payé par l'employeur)
- > REER (Contribution de l'employeur de 3%)

Faire parvenir votre CV directement au mbrunelle@atkore.com

Atkore FRE Composites

FRE Composites, situé à Saint-André d'Argenteuil, est à la recherche de

2 POSTES DE MÉCANICIEN(NE) INDUSTRIEL PRIME D'EMBAUCHE 1000\$!!

- DEP Mécanique Industrielle (exigé)
- > 40h/semaine
- > Salaire: 24.60\$ à 31.84\$
- Quart de soir (rotatif avec jour) / Prime de soir 1\$/h
- > Quart de nuit / Prime de nuit 1.50\$/h
- Assurances (50% payé par l'employeur)
- REER (Contribution de l'employeur de 3%)

Faire parvenir votre CV directement au mbrunelle@atkore.com



REPRÉSENTANT(E) ASSOCIÉ(E) AUX VENTES

Temps plein du lundi au vendredi Salaire 40,000\$ + commission

- Travail hybride bureau et télétravail
- · Heures de travail flexibles
- · Posséder un véhicule
- Facilité à contacter les clients par téléphone ou par courriel
- Doit avoir une attitude gagnante
- · Connaissance de l'informatique

Envoyez votre curriculum vitae par courriel à l'attention de Marc Bastarache (Hawkesbury) :

marc_bastarache@le-regional.ca

de Josée Deslauriers (Lachute) : le-regional@videotron.ca

Avis de séance d'information publique # 2



Canton d'Alfred et Plantagenet Système d'eaux usées de Plantagenet Étude environnementale de portée générale annexe C

Le Canton d'Alfred et Plantagenet entreprend une étude environnementale de portée générale pour déterminer les options d'agrandissement et/ou d'amélioration du système de collecte et de traitement d'eaux usées du village de Plantagenet.

En quoi cela vous concerne?

L'étude examinera les besoins actuels et futurs du système de collecte et de traitement d'eaux usées de Plantagenet, y compris les égouts sanitaires, les stations de pompage, l'étang d'épuration et la conduite d'évacuation, et évaluera des alternatives pour répondre aux besoins du Canton.

La consultation des parties prenantes fait partie intégrante de l'étude. Vos commentaires aideront à identifier la solution et les concepts préférés.

Nous voulons votre avis!



La première séance d'information publique, tenue le 10 mai 2023, a identifié les problèmes et/ou les opportunités, et a discuté de plusieurs alternatives possibles. À l'aide des commentaires reçus au cours de la première séance, la solution préférée suivante a été identifiée: Expansion du système de traitement Plantagenet avec l'ajout de cellules de stockage (étangs d'épuration) et traitement(s) spécialisés en utilisant une nouvelle période de décharge (1er octobre au 31 mai). La deuxième séance d'information publique identifiera et discutera le concept préféré pour la solution préférée. Cette séance résumera les concepts alternatifs considérés et le processus d'évaluation entreoris.

La séance d'information publique aura lieu :

Date et Heure: Lundi 6 novembre 2023. Portes ouvertes de 18h00 – 20h00 Adresse: Hôtel de ville, 205 Vieille Route 17, Plantagenet, ON

Tous ceux qui sont intéressés dans ce projet sont priés de venir participer. Si vous avez des questions au sujet de l'étude, veuillez consulter notre site web www.alfred-plantagenet.com ou communiquer directement avec une des personnes ci-dessous.



Jordan Morrissette, M.Eng., P.Eng. Ingénieur senior en environnement J.L. Richards & Associates Ltd. 343 rue Preston, tour II, suite 1000 Ottawa, ON K1S 1N4

imorrissette@ilrichards.ca Tél: 343-804-5379 Jonathan Gendron, P.Eng.
Directeur de la construction,
l'aménagement du territoire,
l'ingénierie et de l'environnement
Canton d'Alfred et Plantagenet
205 Vieille route 17, Case postale 350,
Plantagenet, ON K0B 1L0
|gendron@alfred-plantagenet.com
Tél: 613-673-4797

Cette étude est réalisée en vertu des dispositions de l'annexe C du processus d'évaluation environnementale municipale de portée générale (octobre 2000, modifiée en 2023).

Cet avis a été publié le 19 et 26 octobre 2023.

Notice of Public Open House # 2



Township of Alfred and Plantagenet
Plantagenet Wastewater System
Schedule 'C' Municipal Class Environmental Assessment

The Township of Alfred and Plantagenet initiated a Municipal Class Environmental Assessment (Class EA) in December 2021 to evaluate alternatives to potentially expand and/or upgrade the Village of Plantagenet Wastewater System.

How Will This Affect Me?

The study will assess the current and future requirements of the Plantagenet Wastewater System, including the sewage pumping stations, force mains, lagoon and effluent piping, and will evaluate various alternatives to address the Township's needs.

Public consultation is a key element of the process, and your input will be an important consideration in the selection of a preferred solution and design concept.



We Want to Hear from You!

Public Information Centre (PIC) No. 1, held on May 10, 2023, identified the system's existing problems and/or opportunities, and identified several potential alternative solutions. Using feedback received during PIC No. 1, the following preferred solution was identified for the Plantagenet Wastewater Treatment System (WWTS): Expansion of WWTS with additional lagoon storage and specialized treatment system(s) using a new expanded discharge window (October 1 to May 31). PIC No. 2 will identify and solicit feedback on the current preferred design concept for the preferred solution. This public open house will summarize the alternative design concepts considered and the evaluation process undertaken to develop the preferred design concept.

The Open House (or Public Information Centre) is scheduled as follows:

Date: Monday, November 6, 2023

Fime: Open House from 6:00 p.m. – 8:00 p.m.

Township Hall, 205 Old Highway 17, Plantagenet, ON

All those interested in the project are urged to attend. Project information will also be available on the Township website, www.alfred-plantagenet.com. If you have any questions or input to provide regarding the study, you are invited to contact a member of the study team. We welcome your feedback.



TO FIND OUT MORE VISIT www.alfred-plantagenet.com

Jordan Morrissette, M.Eng., P.Eng. Senior Environmental Engineer J.L. Richards & Associates Limited 343 Preston Street, Tower II, Suite 1000

Ottawa, Ontario K1S 1N4 Phone: 343-804-5379 imorrissette@ilrichards.ca Jonathan Gendron, P.Eng. Director of Building, Planning, Engineering, and Environment Township of Alfred & Plantagenet 205 Old Highway 17, P.O. Box 350, Plantagenet, ON K0B 1L0 Phone: 613-673-4797 ext. 226 igendron@alfred-plantagenet.com

This study is being conducted according to the requirements of a Schedule C project under the Municipal Class Environmental Assessment process (October 2000, as amended in 2023).

This notice was issued on October 19, 2023, and October 26, 2023.

26 October · 🚱

Le Canton d'Alfred et Plantagenet entreprend une étude environnementale pour déterminer les options d'agrandissement et/ou amélioration du système de collecte et de traitement d'eaux usées du village de Plantagenet

Rendez-vous à l'hôtel de ville le lundi 6 novembre entre 18h et 20h afin de participer à la séance d'information publique.

The Township of Alfred and Plantagenet is undertaking an environmental study to determine options for expanding and/or improving the Village of Plantagenet's wastewater collection and treatment system.

Join us at Town Hall on Monday, November 6, between 6 and 8 p.m. for the public information session.

Notice of Public Open House # 2



Township of Alfred and Plantagenet Plantagenet Wastewater System Schedule 'C' Municipal Class Environmental Assessment

The Township of Alfred and Plantagenet initiated a Municipal Class Environmental Assessment (Class EA) in December 2021 to evaluate alternatives to potentially expand and/or upgrade the Village of Plantagenet Wastewater System.

How Will This Affect Me?

The study will assess the current and future requirements of the Plantagenet Wastewater System, including the sewage pumping stations, force mains, lagoon and effluent piping, and will evaluate various alternatives to address the Township's needs

Public consultation is a key element of the process, and your input will be an important consideration in the selection of a preferred solution and design concept.

We Want to Hear from You!

Public Information Centre (PIC) No. 1, held on May 10, 2023, identified the system's existing problems and/or opportunities, and identified several potential alternative solutions. Using feedback received during PIC No. 1, the following preferred solution was identified for the Plantagenet Wastewater Treatment System (VWVTS): Expansion of WWTS with additional lagoon storage and specialized treatment system(s) using a new expanded discharge window (October 1 to May 31). PIC No. 2 will identify and solicit feedback on the current preferred design concept for the preferred solution. This public open house will summarize the alternative design concepts considered and the evaluation process undertaken to develop the preferred design concept.

The Open House (or Public Information Centre) is scheduled as follows:

Monday, November 6, 2023

Open House from 6:00 p.m. - 8:00 p.m. Location:

Township Hall, 205 Old Highway 17, Plantagenet, ON

All those interested in the project are urged to attend. Project information will also be available on the Township website, www.alfred-plantagenet.com. If you have any questions or input to provide regarding the study, you are invited to contact a member of the study team. We welcome your feedback.

Avis de séance d'information publique # 2



Canton d'Alfred et Plantagenet Système d'eaux usées de Plantagenet Étude environnementale de portée générale annexe C

Le Canton d'Alfred et Plantagenet entreprend une étude environnementale de portée générale pour déterminer les options d'agrandissement et/ou d'amélioration du système de collecte et de traitement d'eaux usées du village de

En quoi cela vous concerne?

L'étude examinera les besoins actuels et futurs du système de collecte et de traitement d'eaux usées de Plantagenet, y compris les égouts sanitaires, les stations de pompage, l'étang d'épuration et la conduite d'évacuation, et évaluera des alternatives pour répondre aux besoins du

La consultation des parties prenantes fait partie intégrante de l'étude. Vos commentaires aideront à identifier la solution et les concepts préférés

Nous voulons votre avis!



La première séance d'information publique, tenue le 10 mai 2023, a identifié les problèmes et/ou les opportunités, et a discuté de plusieurs alternatives possibles. À l'aide des commentaires reçus au cours de la première séance, la solution préférée suivante a été identifiée: Expansion du système de traitement Plantagenet avec l'ajout de cellules de stockage (étangs d'épuration) et traitement(s) spécialisés en utilisant une nouvelle période de décharge (1er octobre au 31 mai). La deuxième séance d'information publique identifiera et discutera le concept préféré pour la solution préférée. Cette séance résumera les concepts alternatifs considérés et le processus d'évaluation

La séance d'information publique aura lieu :

Lundi 6 novembre 2023. Portes ouvertes de 18h00 - 20h00 Hôtel de ville, 205 Vieille Route 17, Plantagenet, ON

Tous ceux qui sont intéressés dans ce projet sont priés de venir participer. Si vous avez des questions au sujet de l'étude, veuillez consulter notre site web www.alfred-plantagenet.com ou communiquer directement avec une des personnes ci-dessous.

Jordan Morrissette, M.Eng., P.Eng. Jonathan Gendron, P.Eng.



Township of Alfred and Plantagenet Plantagenet Wastewater System Schedule C Municipal Class Environmental Assessment Public Information Centre No. 2

Canton d'Alfred et Plantagenet System d'eaux usées de Plantagenet Étude environnementale de portée générale Annexe C Séance d'information publique N°2



November 6, 2023

Sign-in Sheet

6 novembre 2023

Feuille de presence

٠	icase i	THE CIC	cally / O i	vous	piait iiripriiriei	Clairemen
_	_					

Name / Nom	Address / Adresse	Postal Code / Code postal	Email / couriel électronique	Telephone / Téléphone	
Eight (8) members of the pub	Eight (8) members of the public attended PIC No. 2, as noted in Appendix D. Personal information has been hidden.				

PUBLIC OPEN HOUSE NO. 2

Township of Alfred and Plantagenet Plantagenet Wastewater System Schedule "C" Municipal Class Environmental Assessment

November 6th, 2023, 6:00 to 8:00 p.m.

Township Hall

205 Old Highway 17

Plantagenet, Ontario

COMMENTS SHEET

(Please return by November 17th, 2023)

NAME:	_
PHONE NO. :	_
ADDRESS :	_
	_
COMMENTS:	

Please return to:

Village of Plantagenet Schedule 'C' Class EA c/o J.L. Richards & Associates Limited 343 Preston Street, Tower II, Suite 1000 Ottawa, ON K1S1N4

Tel: 613-728-3571

Electronic-mail: jmorrissette@jlrichards.ca

igendron@alfred-plantagenet.com

SÉANCE D'INFORMATION PUBLIQUE N°2



Canton d'Alfred et Plantagenet Système d'eaux usées de Plantagenet Étude environnementale de portée générale Annexe 'C'

> 6 novembre 2023, 18:00 à 20:00 Hotel de ville 205 vieille route 17 Plantagenet, Ontario

COMMENTAIRES

(S'il-vous-plaît, veuillez retourner par vendredi, le 17 novembre 2023)

NOM:				
NO. DE TÉLÉPHONE :				
ADRESSE :				
COMMENTAIRES:				

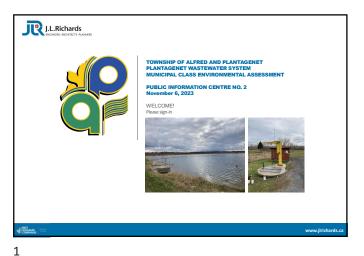
S'il-vous-plaît, veuillez retourner à:

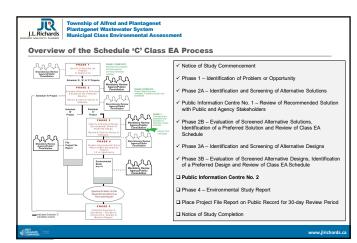
Village de Plantagenet Étude environnementale de portée générale Annexe 'C' c/o J.L. Richards & Associates Limited 343 rue Preston, tour II, suite 1000 Ottawa, ON K1S1N4

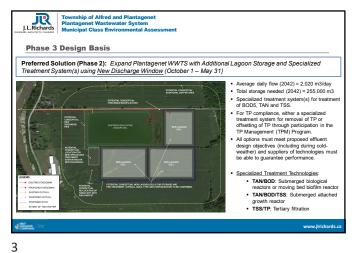
Tel: 613-728-3571

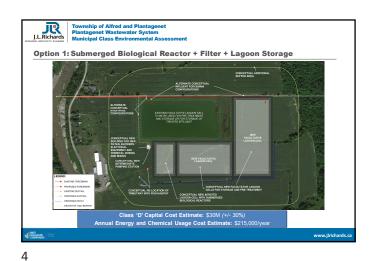
Couriel électronique: jmorrissette@jlrichards.ca

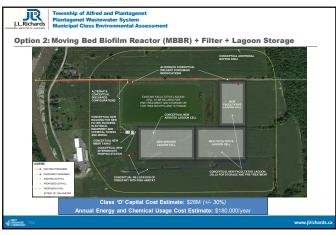
jgendron@alfred-plantagenet.com

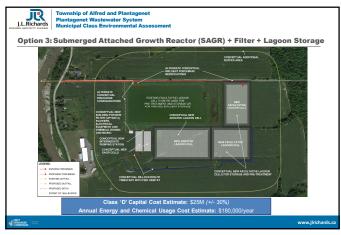


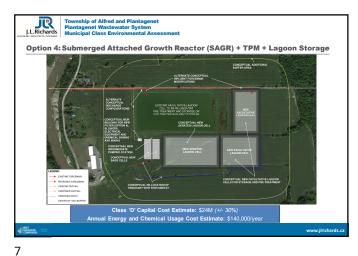


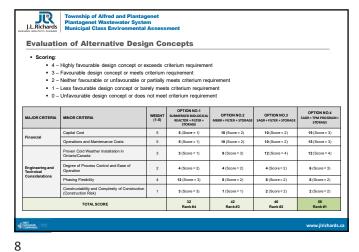


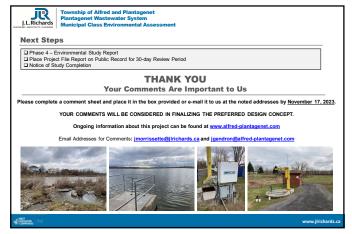


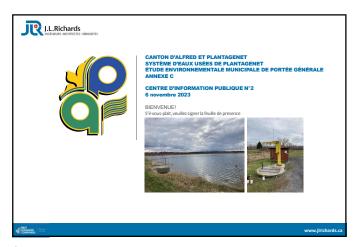


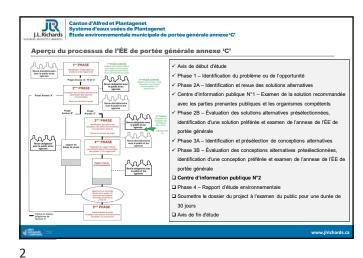










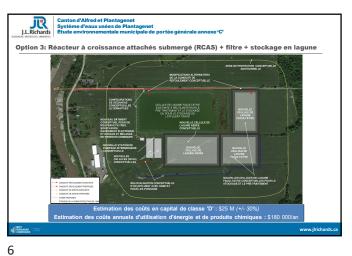




Canton d'Alfred et Plantagenet Système d'eaux usées de Plant Étude emissage J.L.Richards ur biologique submergé + filtre + stockage en lagune Estimation des coûts en capital de classe 'D' : \$30 M (+/- 30%) ation des coûts annuels d'utilisation d'énergie et de produits chimiques : \$215 000/c

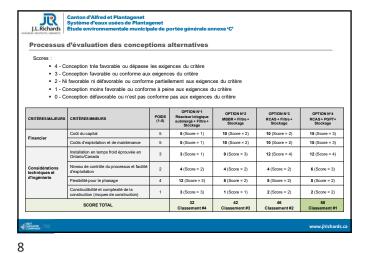
4





5







Environmental Study Report Plantagenet Wastewater Municipal Class Environmental Assessment

Appendix D8

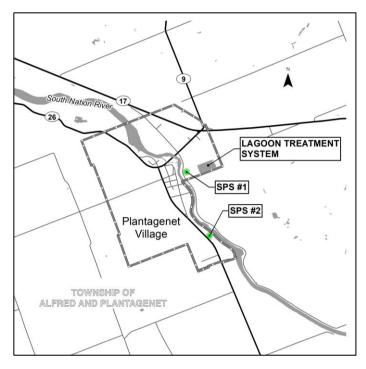
Study Notice of Completion

Notice of Completion

Township of Alfred and Plantagenet Plantagenet Wastewater System

Schedule 'C' Municipal Class Environmental Assessment

Issue Date: March 28, 2024



The Township of Alfred and Plantagenet (Township) has completed a Schedule 'C' Municipal Class Environmental Assessment (Class EA) for the Plantagenet Wastewater System. The purpose of this Class EA was to assess the current and future requirements of the Plantagenet Wastewater System, which includes sanitary sewers, sewage pumping stations, force mains and the treatment system, and make recommendations for upgrading or expanding the system to meet the Township's needs.

This study was conducted according to the requirements of Phases 1 to 4 of the Municipal Engineers Association Municipal Class EA process, which is an approved process under the Environmental Assessment Act. The final Environmental Study Report demonstrates a sufficient level of investigation, consultation, and documentation to fulfill the requirements of a Schedule 'C' Class EA.

The preferred solution for the Plantagenet wastewater system, as outlined in the Environmental Study Report, includes the following:

- <u>Wastewater Treatment System</u>: Expand the Plantagenet wastewater treatment system to a rated capacity of 2,020 m³/day with additional lagoon storage, Submerged Attached Growth Reactors and through participation in the South Nation Conservation's Total Phosphorous Management program, using an expanded effluent discharge window (October 1 May 31).
- <u>Sewage Pumping Stations (SPSs)</u>: Upgrade SPS No. 1 to a rated capacity of 99.7 L/s, and upgrade SPS No. 2 to a rated capacity of 42.1 L/s.
- <u>Wastewater Collection System</u>: Develop an Infrastructure Master Plan (including I&I Reduction Program) to identify necessary upgrades to the wastewater collection system.
- <u>Wastewater Treatment System Outfall</u>: Undertake hydraulic modelling of the existing WWTS outfall to confirm outfall capacity.

Through issuance of this Notice, the Environmental Study Report is being placed on public record for thirty (30) calendar days in accordance with the requirements of the Municipal Class EA process. The Environmental Study Report is being made available on the Township's website through the following link: Plans, Reports and Studies - Township of Alfred and Plantagenet (alfred-plantagenet.com). The report will also be available for review during normal business hours (Monday to Friday, 8:00 a.m. to 4:00 p.m.) at the Township Hall, located at 205 Old Highway 17, Plantagenet, ON.

Interested persons may review this document and provide written comments on the proposed project to the Township within thirty (30) calendar days of issuance of this notice (by **April 27, 2024**). Comments should be directed to Jordan Morrissette of J.L. Richards & Associates Limited and Jonathan Gendron

of the Township of Alfred and Plantagenet, whose contact information is provided below. Any information collected during the review period will be managed in accordance with the Freedom of Information and Protection Act. Except for personal information, all comments received by the Township will become part of the public record.

Jordan Morrissette, M.Eng., P.Eng.	Jonathan Gendron, P.Eng.
Associate, Senior Environmental Engineer J.L. Richards & Associates Limited	Public Works Superintendent Township of Alfred and Plantagenet
343 Preston Street, Tower II, Suite 1000 Ottawa, Ontario K1S 1N4	205 Old Highway 17, P.O. Box 350 Plantagenet, ON K0B 1L0
Phone: 343-804-5379	Phone: 613-673-4797
jmorrissette@jlrichards.ca	JGendron@alfred-plantagenet.com

In addition, a request may be made to the Ministry of the Environment, Conservation, and Parks for an order imposing additional conditions or requiring an individual environmental assessment on the grounds that the requested order may prevent, mitigate, or remedy adverse impacts on constitutionally protected Aboriginal and treaty rights. Requests should include your full name and contact information.

To ensure that the Ministry can efficiently begin reviewing the request, requests should specify what kind of order is being requested (additional conditions or an individual environmental assessment), how an order may prevent, mitigate, or remedy potential adverse impacts, and any information in support of the statements in the request. Please visit the Ministry's website for more information on requests for orders under section 16 of the Environmental Assessment Act at: https://www.ontario.ca/page/class-environmental-assessments-section-16-order. The request should be sent in writing or by e-mail to:

Minister of the Environment, Conservation and	Director, Environmental Assessment Branch
Parks	
Ministry of the Environment, Conservation and	Ministry of the Environment, Conservation and Parks
Parks	135 St. Clair Ave. W, 1st Floor
777 Bay Street, 5th Floor	Toronto, ON M4V 1P5
Toronto, ON M7A 2J3	EABDirector@ontario.ca
minister.mecp@ontario.ca	

Requests to the Ministry should also be sent to Jordan Morrissette of J.L. Richards & Associates Limited and Jonathan Gendron of the Township of Alfred and Plantagenet by mail or by e-mail (see above contact information). All personal information included in your Section 16 Order request – such as name, address, telephone number and property location – is collected, under the authority of section 30 of the Environmental Assessment Act and is maintained for the purpose of creating a record that is available to the general public. As this information is collected for the purpose of a public record, the protection of personal information provided in the Freedom of Information and Protection of Privacy Act (FIPPA) does not apply (s.37). Personal information you submit will become part of a public record that is available to the public unless you request that your personal information remain confidential.

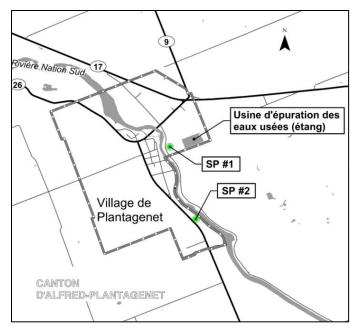
Subject to comments received as a result of this Notice, Section 16 orders, funding opportunities and the receipt of necessary approvals, the Township may then proceed with the proposed works.

This Notice is issued on March 28, 2024.

Avis d'achèvement d'étude

Canton d'Alfred et Plantagenet Système d'eaux usées de Plantagenet Étude environnementale de portée générale, annexe C

28 mars 2024



Le Canton d'Alfred et Plantagenet a complété une étude environnementale (ÉE) municipale de portée générale, annexe C, pour le système d'eaux usées de Plantagenet. L'objectif de l'ÉE était d'évaluer les besoins actuels et futurs du système d'eaux usées de Plantagenet, y compris les égouts sanitaires, les stations de pompage, les conduites de refoulement et le système de traitement, et de formuler des recommandations concernant l'agrandissement ou l'amélioration du système. Cette étude a été réalisée conformément aux exigences des phases 1 à 4 du processus d'ÉE municipale de portée générale, qui est un processus approuvé en vertu de la Loi sur les évaluations environnementales. Le rapport d'étude environnementale démontre un niveau suffisant d'enquête, de consultation et de documentation pour satisfaire aux exigences d'une évaluation environnementale annexe C.

La solution préférée pour le système d'eaux usées de Plantagenet, tel qu'il est décrit dans le rapport d'étude environnementale, comprend les éléments suivants:

- <u>Système de traitement d'eaux usées</u>: Expansion du système de traitement à une capacité nominale de 2 020 m³/jour avec l'ajout de cellules de stockage (étangs d'épuration), de réacteurs de croissance attachés submergés et de la participation dans le programme de gestion du phosphore total de la conservation de la Nation Sud, utilisant une fenêtre de décharge élargie (1er octobre 31 mai).
- <u>Stations de pompage (SP)</u>: Agrandissement de la SP nº 1 à une capacité nominale de 99.7 L/s et la SP n° 2 à une capacité nominale de 42.1 L/s.
- <u>Système de collecte des eaux usées :</u> Élaborer un plan directeur de l'infrastructure (y compris le programme de réduction d'afflux et d'infiltration) afin de déterminer les améliorations à apporter au système de collecte des eaux usées.
- Conduite d'évacuation du système de traitement d'eaux usées : Entreprendre un modèle hydraulique de la conduite d'évacuation afin de déterminer la capacité de débit maximale.

Par cet avis, le rapport d'étude environnementale sera placé en dossier public pour une période d'examen de trente (30) jours conformément aux exigences du processus de l'ÉE de portée générale. Le rapport sera disponible pour revue publique sur le site Web du Canton (https://www.alfred-plantagenet.com/fr/township-hall/plans-reports-and-studies.aspx) et sera également disponible pendant les heures normales d'ouverture (du lundi au vendredi, de 8h00 à 16h00) à l'hôtel de ville, 205, vielle route 17. Plantagenet, ON.

Les personnes intéressées peuvent consulter ce document et fournir des commentaires écrits sur le projet (au plus tard le **27 avril 2024**). Les commentaires doivent être adressés à Jordan Morrissette de J.L. Richards & Associates Limited et Jonathan Gendron du Canton d'Alfred et Plantagenet, dont les

coordonnées sont fournies ci-dessous. Toutes les informations recueillies au cours de la période d'examen seront gérées conformément à la Loi sur l'accès à l'information et la protection de la vie privée. À l'exception de l'information personnelle, tous les commentaires reçus par le Canton feront partie du dossier public.

Jordan Morrissette, M.Eng., P.Eng.	Jonathan Gendron, P.Eng.
Associate, Senior Environmental Engineer J.L. Richards & Associates Limited 343 rue Preston, tour II, suite 1000 Ottawa, ON K1S 1N4 Tél.: 343-804-5379 jmorrissette@jlrichards.ca	Surintendant des Travaux Publics Canton d'Alfred et Plantagenet 205 Vieille route 17, Case postale 350, Plantagenet, ON K0B 1L0 Tél.: 613-673-4797 JGendron@alfred-plantagenet.com

De plus, une demande peut être présentée au ministère de l'Environnement, de la Protection de la nature et des Parcs en vue d'obtenir un arrêté imposant des conditions supplémentaires ou exigeant une évaluation environnementale individuelle au motif que l'arrêté demandé peut prévenir, atténuer ou remédier aux effets préjudiciables sur les droits ancestraux et issus de traités protégés par la Constitution. Les demandes doivent inclure votre nom complet et vos coordonnées.

Pour s'assurer que le ministère peut examiner la demande avec efficacité, les demandes doivent préciser le type d'ordonnance demandée (conditions supplémentaires ou évaluation environnementale individuelle), la façon dont une ordonnance peut prévenir, atténuer ou remédier aux effets négatifs potentiels, ainsi que tout renseignement à l'appui des énoncés de la demande. Veuillez consulter le site Web du ministère pour obtenir de plus amples renseignements sur les demandes d'ordonnances en vertu de l'article 16 de la Loi sur les évaluations environnementales à l'adresse suivante : Évaluations environnementales de portée générale : arrêté pris en vertu de l'article 16 | ontario.ca. La demande doit être envoyée par écrit ou par courriel aux adresses suivante :

Ministre de l'Environnement, de la Protection de la	Directeur, Direction de l'évaluation environnementale
nature et des Parcs	
Ministère de l'Environnement, de la Protection de	Ministère de l'Environnement, de la Protection de la
la nature et des Parcs	nature et des Parcs
777, rue Bay, 5e étage	135, avenue St. Clair Ouest, 1er étage
Toronto, ON M7A 2J3	Toronto, ON M4V 1P5
minister.mecp@ontario.ca	EABDirector@ontario.ca

Les demandes au ministère doivent également être envoyées à Jordan Morrissette de J.L. Richards & Associates Limited et à Jonathan Gendron du Canton d'Alfred et Plantagenet par la poste ou par courriel (voir les coordonnées ci-dessus). Tous les renseignements personnels inclus dans votre demande d'ordonnance en vertu de l'article 16 – tels que le nom, l'adresse, le numéro de téléphone et l'emplacement de la propriété – sont recueillis, en vertu de l'article 30 de la Loi sur les évaluations environnementales, et sont conservés dans le but de créer un dossier qui est accessible au grand public. Étant donné que ces renseignements sont recueillis aux fins d'un dossier public, la protection des renseignements personnels prévue par la Loi sur l'accès à l'information et la protection de la vie privée ne s'applique pas (art. 37). Les renseignements personnels que vous soumettez feront partie d'un dossier public accessible au public, à moins que vous ne demandiez que vos renseignements personnels demeurent confidentiels.

Sous réserve des commentaires reçus à la suite du présent avis, des ordonnances en vertu de l'article 16, des possibilités de financement et de l'obtention des approbations nécessaires, le Canton peut aller de l'avant avec les travaux proposés.

Le présent avis est publié le 28 mars 2024.