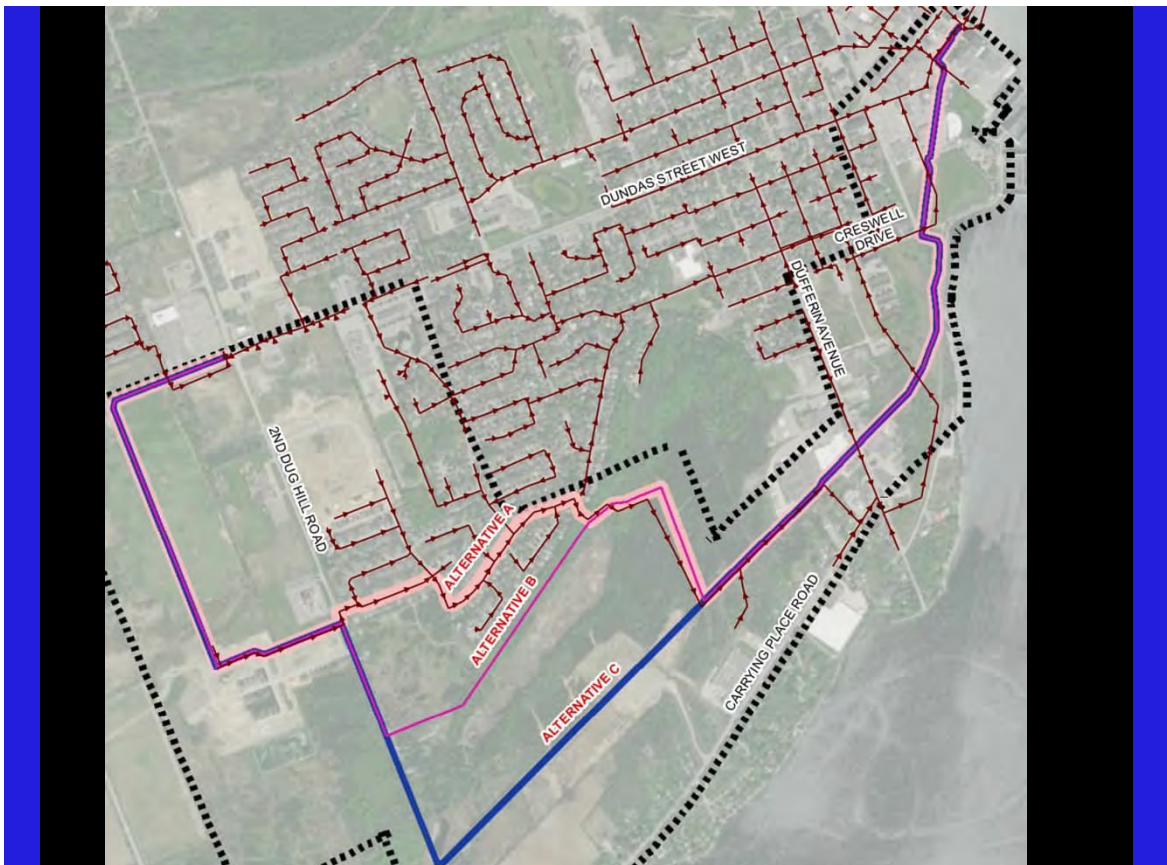


Project File – West Trunk Sanitary Sewer EA

Document no: CE846800 - PF
Revision no: 02

City of Quinte West

West Trunk Sanitary Sewer Schedule B Municipal Class Environmental
Assessment
June 13, 2023





Project File – West Trunk Sanitary Sewer EA

Client name: City of Quinte West

Project name: West Trunk Sanitary Sewer Schedule B Municipal Class Environmental Assessment

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Date: June 13, 2023 **Prepared by:** Jacqueline Change, Dorin Newman

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Acronyms and abbreviations

ASI	Archaeological Services Inc.
EA	Environmental Assessment
ESR	Environmental Study Report
MCEA	Municipal Class Environmental Assessment
MEA	Municipal Class Environmental Assessment
MECP	Ministry of the Environment, Conservation and Parks
NDMNRF	Ministry of Northern Development, Mines, Natural Resources, and Forestry
NHIC	Natural Heritage Information Centre
TSS	Trunk Sanitary Sewer
WWMP	Waste Water Master Plan

Executive Summary

The City of Quinte West has completed the Schedule B Municipal Class Environmental Assessment (EA) process to identify a preferred alignment for the West End Trenton Sanitary Trunk Sewer. This included consultation with all stakeholders, completion of studies, and analysis of alternative solutions. The study area for the project and the proposed alternative alignments for the trunk sewer are shown in Figure 1.

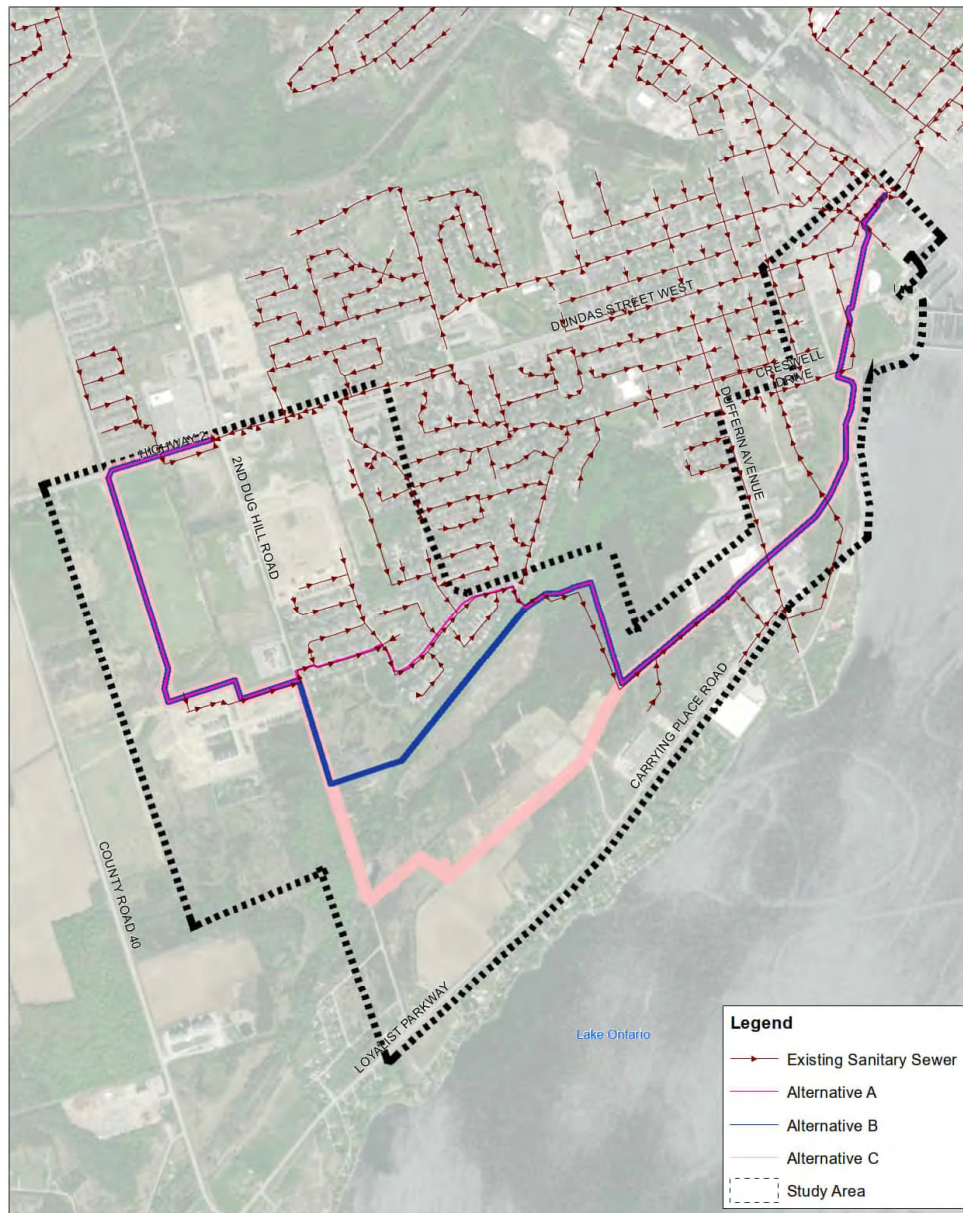


Figure 1 – Study Area and Alternative Sewer Alignments

An evaluation of the alternative sewer alignments was completed which examined the technical considerations, impacts to the natural and socio-cultural environments, and economic factors. Based on this analysis, Alternative C was the most favourable alternative and was selected to be the preferred alternative to move forward to the implementation phase. This report details the findings of the EA study and all relevant background information that contributed to selection of the preferred alternative.

1. Introduction

1.1 Background

The City of Quinte West in conjunction with Jacobs completed a review of the capacity of the existing West Trunk Sanitary Sewer (TSS) as part of the 2021 Water and Wastewater Master Plan (WWMP). The report documents the development, evaluation, and selection of the preferred water and wastewater servicing strategies to meet the servicing needs of existing and future development to 2046. The WWMP study found that to support the proposed development around Highway 2 and 2nd Dug Hill Rd, the existing trunk sewer requires additional capacity. This includes increasing the capacity along the existing route with some sections following the current alignment and other sections following a new alignment. The existing sewer's available capacity is insufficient to accommodate the known developments and ultimate growth envisioned by the City of Quinte West.

1.2 Problem/Opportunity Statement

To identify and investigate alternative solutions appropriate for the key problems and opportunities driving this Project, the following Problem/Opportunity Statement was developed:

The purpose of this study is to therefore develop and evaluate alternative solutions and recommend a preferred solution to provide additional trunk sewer capacity required to service future growth needs in the West End of Trenton.

1.3 Planning and Policy

1.3.1 Ontario's Environmental Assessment Process

Ontario's Environmental Assessment (EA) Act was passed in 1975 and was first applied to municipalities in 1981. The EA Act requires the study, documentation, and examination of the environmental effects that could result from projects or activities.

The objective of the EA Act is to consider the possible effects of these projects early in the planning process, when concerns may be most easily resolved, and to select a preferred alternative with the fewest identified impacts.

The EA Act defines "environment" very broadly as follows (Ontario 1990):

- Air, land, or water
- Plant and animal life, including human life
- Social, economic, and cultural conditions that influence the life of humans or a community
- Any building, structure machine, or other device or thing made by humans
- Any solid, liquid, gas, odour, heat, sound, vibration or radiation resulting directly or indirectly from human activities
- Any part or combination of the foregoing, and the interrelationships between any two or more of them, in or of Ontario

In applying EA Act requirements to projects, two types of EA planning and approval processes are identified:

1. Individual EA (Part II of the EA Act): Projects for which Terms of Reference and an individual EA are carried out and submitted to the Minister of the Environment, Conservation and Parks (MECP) for review and approval.
2. Municipal Class EA (which this project falls under): Projects are approved subject to compliance with an approved Class EA process; provided that the appropriate Class EA approval process is followed, a proponent will comply with the requirements of the EA Act.

1.3.2 Municipal Class Environmental Assessment Process

The Municipal Class EA (MCEA) process includes the following five phases, as defined in the Municipal Engineer Association's (MEA) Municipal Class EA document (October 2000, amended in 2007, 2011, 2015, and 2019) and as shown in the flow chart in Figure 1-1:

- Phase 1. Identify the problem of opportunity
 - Prepare the Project File Report (Current Phase)
- Phase 2. Identify alternative solutions and establish a preferred solution
 - Prepare the Project File Report (Current Phase)
- Phase 3. Examine alternative methods of implementing the preferred solution that will minimize negative effect and maximize positive effects
- Phase 4. Preparation of an ESR
- Phase 5. Implementation

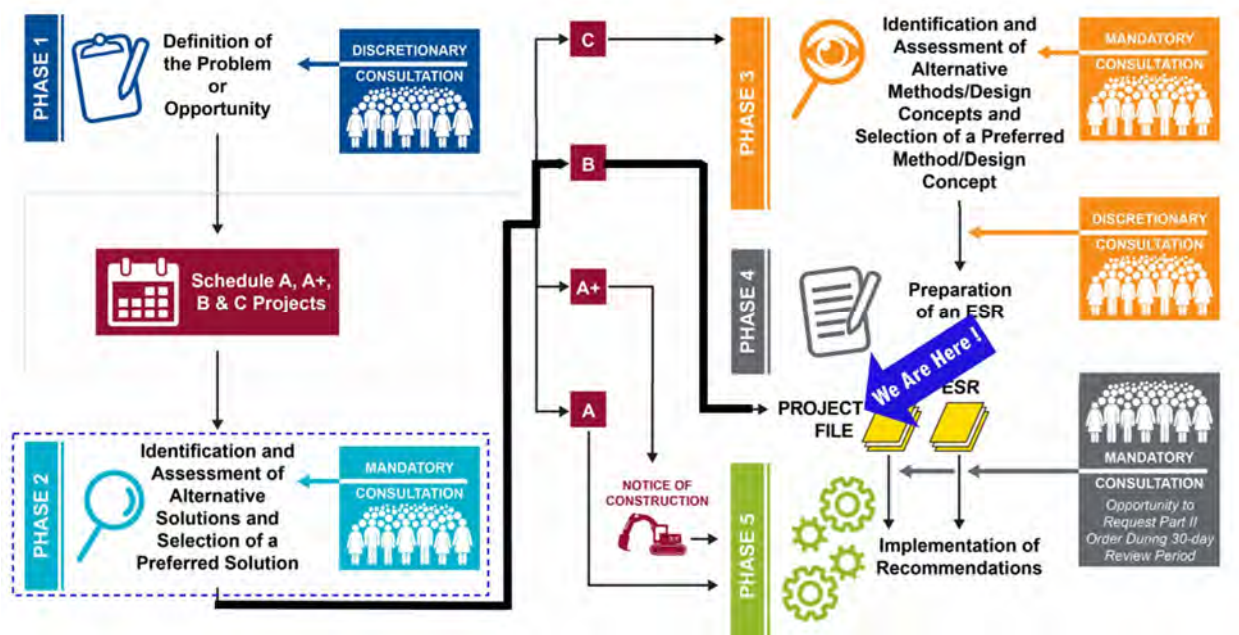


Figure 1-1 Class EA Process Flow Chart

The MCEA document (2019) classifies projects in terms of the following four schedules, based on the anticipated environmental impact of the proposed development:

- Schedule A projects are pre-approved minor operational and upgrade activities and may go ahead without further assessment once Phase 1 of the Class EA processes is complete (that is, the problem is reviewed, and a solution is confirmed).

- Schedule A+ projects are pre-approved but still require public notification prior to project implementation. Projects categorized as Schedule A+ include activities such as municipal infrastructure plans previously approved by a council member (Phase 1).
- Schedule B projects must proceed through Phases 1 and 2 of the process. The proponent is required to undertake a screening process involving mandatory contact with directly affected public and stakeholders, and relevant review agencies to confirm that they are aware of the project and that their concerns have been addressed. If there are no outstanding issues or concerns, then the proponent may proceed to Phase 5 Implementation of Recommendations. Schedule B projects generally include improvements and minor expansions. A Project File report (this report) is prepared to document the work completed in Phases 1 and 2 and made available for a 30-day public review period prior to proceeding to implementation.
- Schedule C projects require more detailed study, public consultation, and documentation, as they may have more significant impacts. Projects categorized as Schedule C must proceed through all five phases of an assessment. An Environmental Study Report (ESR) must be completed and made available for a 30-day public review period prior to proceeding to implementation.

This project is undertaken as a Schedule B Class EA based on the MCEA Project Schedule Appendix. The process requires that a Project File be prepared to document the planning and decision-making steps followed and placed on record for public and stakeholder review and comment for 30 days prior to proceeding with Phase 5 to implement the recommendations and commitments of the completed MCEA.

2. Description of Existing Environment

This section provides an overview of the environmental and socio-economic setting for the Project Study Area to describe the baseline information from which alternative solutions can be identified and implemented. Baseline information is presented for the natural, social, cultural, technical, and economic environment within the Study Area. Information collected for the setting was obtained from a desktop review and analysis of existing data as well as biophysical field surveys conducted within the Study Area.

2.1 Natural Environment

The following subsections discuss the natural environment within the Study Area. The complete Desktop Natural Features Assessment Report can be found in Appendix A.

2.1.1 Physical Environment

Topography within the Study Area includes generally level lands that gently slope south towards the Bay of Quinte within the Study Area's southern portion. However, steep portions of the Trenton Escarpment occur to the north. The Study Area is underlain by loam and silty clay loam, originating from till plain areas to the north (LTC, 2018).

2.1.2 Terrestrial Systems

Based on a desktop review, the Study Area is dominated by residential and industrial areas, agricultural fields, with some woodlands, including the Trenton Escarpment. The Trenton Escarpment Natural Habitat Area is partially located within the Study Area adjacent to Hanna Park. It is approximately 7.7 hectares in size and is heavily forested with a centrally located swamp and intermittent stream that flows through the Study Area (LTC, 2017).

2.1.3 Wetlands

Based on a review of the NDMNRF Natural Heritage Information Centre (NHIC), Make A Map: Natural Heritage Areas (NHIC, 2021), unevaluated wetlands occur within the Study Area, particularly, at the base of the Trenton Escarpment as well as along 2nd Dug Hill Road.

2.1.4 Aquatic Habitat

The Study Area is located north of the Bay of Quinte, with the Trent River abutting it to the east. Drainage tributaries occur in the southern portion of the Study Area, flowing south through industrial and residential areas, which drain to the Bay of Quinte. Drainage tributaries are also located within the northwest portion of the Study Area, flowing west through agricultural and residential areas. An unnamed tributary flows southwest from Hanna Park through the Trenton Escarpment and wetland marshes, out of the Study Area and eventually connecting to Dead Creek, which is located south and outside of the Study Area. Based on the results of the desktop review, fish and fish habitat are likely to be present within the tributaries identified within the Study Area.

2.2 Social and Cultural Environment

The following subsections discuss the social and cultural environment within the Study Area. The complete Stage 1 Archaeological Assessment Report can be found in Appendix B.

2.2.1 Social

During construction, sections of 2nd Dug Hill Road will require closure and cause disruptions to traffic. Additionally, the proximity of construction to houses will require dust and noise control. There will be a service road built above the sewer alignment around the new Carrying Place Industrial Park east of 2nd Dug Hill Rd.

2.2.2 Archaeology

An archaeological assessment of the Study Area was undertaken during the Stage 1 Archaeological Assessment completed by Archeological Services Inc. (ASI). The Study Area encompasses south of Highway 2, on land east and west of 2nd Dug Hill Road in an area north of Carrying Place Road.

The Stage 1 background study determined there are no previously registered archaeological sites located within one kilometre of the Study Area. However, archaeological potential has been exhibited along parts of the alternatives. This requires Stage 2 Archaeological Assessment by test pit and pedestrian survey at five metre intervals prior to construction.

2.2.3 Cultural Heritage

A cultural heritage report was prepared by ASI for the Trenton Trunk Sanitary Sewer Municipal Class Environmental Assessment. The results of the study included historical mapping with generally rural history dating back to the eighteenth century. Additionally, one potential built heritage resource and cultural heritage landscape was uncovered from federal, provincial, and municipal registers, inventories, and databases.

In general, ASI has recommended mitigating potential cultural heritage landmarks and establishing no-go zones with fencing. Further recommendations and key findings are outlined in the Cultural Heritage Report: Existing Conditions and Preliminary Impact Assessment attached in Appendix C.

3. Development of Alternatives

An important step in the Class EA process is identifying alternatives that will address the identified problems or opportunities. According to the MEA MCEA document (2019), alternative solutions are defined as “feasible alternative ways of solving an identified problem (deficiency) or addressing an opportunity, from which a preferred solution is selected.”

A baseline condition against which alternative solutions are evaluated must be considered in the Class EA process, referred to as the Do-Nothing alternative. The remaining alternatives have been identified as a feasible way of solving the identified problem.

3.1 Description of Alternatives

This section provides descriptions of the alternative solutions identified for the study that address the problem statement while minimizing negative impacts on the economic, social, and natural environments.

The alternative solutions considered for the study are identified as follows and are detailed in subsequent sections of this report:

- 1) Do-Nothing Alternative
 - a. This alternative does not provide any additional trunk sewer capacity.
- 2) Alternative A: Existing Sewer Alignment
 - a. This alternative provides additional trunk sewer capacity with a new sewer along the existing trunk sewer alignment.
- 3) Alternative B: Escarpment Alignment
 - a. This alternative provides additional trunk sewer capacity with a new sewer south of Parkview Heights.
- 4) Alternative C: Industrial Park Alignment
 - a. This alternative provides additional trunk sewer capacity with a new sewer line north of Carrying Place Road.

3.2 Evaluation of Alternatives

The alternative solutions evaluation follows the standard MCEA approach through the development of a comprehensive set of evaluation criteria that when applied to the alternatives eliminates those that do not meet the objectives put forward in the problem statement and identifies a preferred alternative that best satisfies the EA objectives. The Do-Nothing alternative does not address the problem statement and has been eliminated from the short-listed alternatives carried forward into the evaluation.

Evaluation criteria are grouped in four main objective categories:

- Technical Considerations
- Natural Environment
- Socio-Cultural Environment
- Economic Considerations

Alternatives A, B, and C were evaluated against the evaluation criteria, with each alternative assigned a score of most favourable, moderately favourable, or least favourable for each criterion. The evaluation criteria category was then assigned the average score from the scoring of its constituent evaluation criteria. The three short-listed alternatives are shown in Figure 3-1.

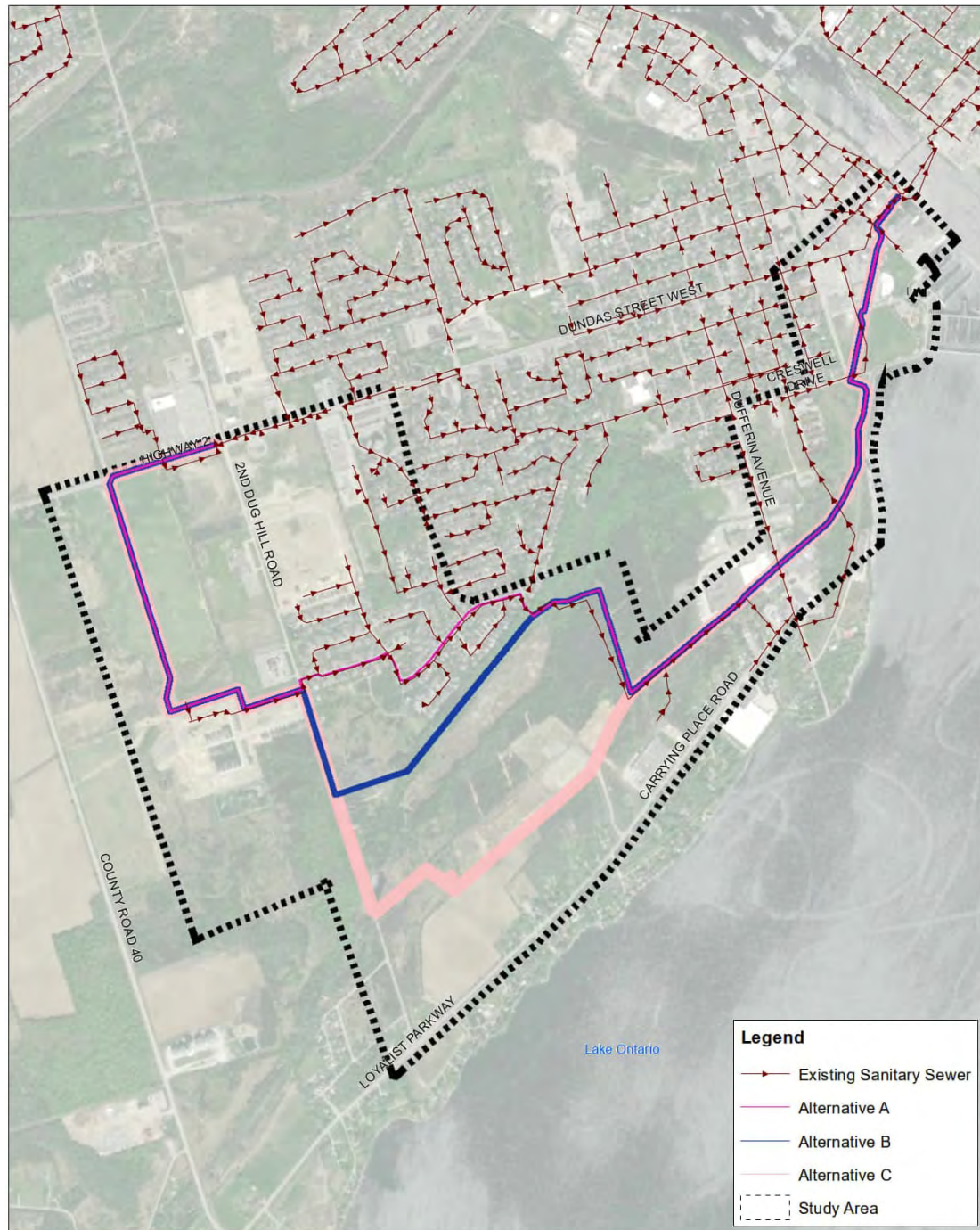


Figure 3-1 – Study Area and Alternative Sewer Alignments

3.2.1 Criteria Development

Category-specific criteria were developed to reflect Project-specific components. A description of each criterion is presented along with the predicted measure (high, moderate, and low) that will be used to evaluate the alternatives relative to each criterion in Table 3-1.

Table 3-1 Criteria Definitions

Criteria	Most Favourable	Moderately Favourable	Least Favourable
Technical Considerations			
Constructability	The alternative addresses the problem statement and introduces opportunities to enhance the solution.	The alternative is viable but does not include preferable construction methods.	The alternative is not considered viable.
Permits and Approval	The alternative requires no permits and approvals.	The alternative requires some permits and approvals.	The alternative requires many permits and approvals.
Operational Accessibility	The alternative is easy to operate and will facilitate easy maintenance throughout operations.	The alternative will be operational standards; however, maintenance involves a higher level of planning throughout operations.	The alternative does not meet operational standards or may be difficult to maintain throughout operations.
Natural Environment			
Terrestrial Systems	The alternative does not affect terrestrial features, or site reclamation has a high probability of occurrence.	The alternative is considered to have minor, temporary impacts on terrestrial features where reclamation is possible.	The alternative has major impacts (i.e., high magnitude) to terrestrial features (e.g., tree clearing) or irreversible impacts (e.g., paving, permanent structures).

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Criteria	Most Favourable	Moderately Favourable	Least Favourable
Aquatic Systems	The alternative will not be in proximity to any sensitive features and regulated lands, have direct effects on aquatic SAR, or effects that are routinely mitigated.	The alternative may have direct effects on aquatic habitat; however, mitigation measures and regulatory approvals are anticipated to reduce these effects.	The alternative will be in close proximity to sensitive features and regulates lands, have major impacts (i.e., high magnitude) on aquatic SAR (e.g., death of fish, destruction of habitat), and there are no mitigation measures available to reduce these effects.
Socio-Cultural Environment			
Recreational Land Uses and Visual Landscape	The alternative will not have impacts on existing land use during construction or operation.	The alternative may have temporary or short-term impacts on existing land use.	The alternative will likely have impacts on existing land use.
Future Planning Policies/ Initiatives	The alternative does not have any impacts on future land use or development opportunities (known or potential).	The alternative has minor impacts on future land use or development opportunities.	The alternative will restrict future land use or development opportunities.
Disruptions During Construction	The alternative does not disrupt traffic or generate noise during construction above existing noise sources in the area (e.g., traffic).	The alternative temporarily disrupts traffic during construction and is moderately noisy for public receptors in the Project area.	The alternative requires long term road closure and is considered to be extremely noisy, with noise occurring 24 hours.
Archeological Resource Potential	The alternative will avoid disturbance to archeological resources (known or potential).	The alternative may have minor impacts or disturbance to archeological resources (known or potential).	The alternative will have impacts on archeological resources (known or potential).

Criteria	Most Favourable	Moderately Favourable	Least Favourable
Cultural Heritage Resource Potential	The alternative will avoid disturbance to cultural heritage resources (known or potential).	The alternative may have minor impacts or disturbance to cultural heritage resources (known or potential).	The alternative will have impacts on cultural heritage resources (known or potential).
Economic Considerations			
Capital Cost	The alternative is considered economically feasible.	The alternative is more expensive compared with other feasible alternatives.	The alternative is most expensive compared with other feasible alternatives.
Operation and Maintenance Costs	The alternative is considered to have relatively low O&M costs during operations.	The alternative has moderate O&M costs during operations compared to other, feasible alternatives.	The alternative will require high costs to ensure ongoing, safe maintenance during operations.

3.2.2 Evaluation Matrix

The results of the evaluation with the criteria from Table 3-1 were applied to each of the three short-listed alternatives identified for the study. The results of the evaluation matrix process are included in Table 3-2.

Table 3-2 Alternatives Evaluation Matrix

Evaluation Criteria				Alternatives Evaluation					
Category	Criteria	Description	Main Consideration	A - Existing Sewer Alignment		B - Escarpment Alignment		C - Industrial Lands Alignment	
Technical Considerations	Constructability	Feasibility of implementation in terms of: <ul style="list-style-type: none">• Depth of excavation• Total length of alternative• Easement requirements• Ease of constructability	<ul style="list-style-type: none">• Lower overall excavation depth and lower rock excavation depth is preferred as it lowers cost and time to construct.• Construction access from existing rights-of-way preferred as it allows for lower construction cost and shorter construction period.• Fewer creek crossings are preferred to reduce complexity during construction.• Routes with fewer property owners and easements is preferred to prevent delays in easement/property acquisition.• Shorter length of pipe is preferred as the subsequent capital cost, construction time and disturbance to the natural and social environments are lower.• Slopes between 0.15-0.50% preferred to achieve self-scouring velocity while avoiding solid settlement, separation, odours, corrosion and maintenance issues.	Average Depth of Excavation (m): <ul style="list-style-type: none">• 4.48 Total Length (m): <ul style="list-style-type: none">• 5,406 Easements: <ul style="list-style-type: none">• 3 permanent, 1 temporary Constructability: <ul style="list-style-type: none">• Most traffic impacts within existing roads• Alignment more congested due to needing to maintain existing trunk sewer service through construction• More bypass pumping required due to construction parallel to existing sewer that is replaced		Average Depth of Excavation (m): <ul style="list-style-type: none">• 4.57 Total Length (m): <ul style="list-style-type: none">• 5,637 Easements: <ul style="list-style-type: none">• 3 permanent, 1 temporary Constructability: <ul style="list-style-type: none">• Very difficult through escarpment needing some sections to be constructed through tunnelling		Average Depth of Excavation (m): <ul style="list-style-type: none">• 4.34 Total Length (m): <ul style="list-style-type: none">• 5,656 Easements: <ul style="list-style-type: none">• 3 permanent, 1 temporary Constructability: <ul style="list-style-type: none">• Road raising required around pond on 2nd Dug Hill Rd, and environmental impacts need to be mitigated	
	Permits and Approvals	Ease of receiving required permits and approvals: <ul style="list-style-type: none">• Number of key stakeholders to obtain permits/approvals from• Extent of infrastructure within lands of concern to each of the key stakeholders, and those impacting features within lands of concern	<ul style="list-style-type: none">• Fewer key stakeholders to obtain permits from is preferred to minimize the potential delays and cost related to obtaining approvals.• Less of the sewer alignment within regulated areas and within sensitive ecological areas is preferred to minimize the number of approvals and the difficulty in obtaining them.	<ul style="list-style-type: none">• Key stakeholders for approval include Lower Trent Conservation, MECP, City, Hydro One• Least area of forest removal required as alignment is mostly within the road and along the existing sewer alignment• 3 stream crossings		<ul style="list-style-type: none">• Key stakeholders for approval include Lower Trent Conservation, MECP, City, Hydro One• Largest area of forest removal required for alignment through the escarpment• 3 stream crossings		<ul style="list-style-type: none">• Key stakeholders for approval include Lower Trent Conservation, MECP, City, Hydro One• Some forest removal required through industrial lands but mostly along old rail corridor and existing hydro corridor• 3 stream crossings	
	Operational Accessibility	Right-of-Way accessibility for O&M needs	<ul style="list-style-type: none">• Access to proposed infrastructure via right of way preferred to avoid permanent easements	<ul style="list-style-type: none">• Within road right-of-way through developed residential area• Easement between houses and some parts through escarpment with steep slopes		<ul style="list-style-type: none">• Some sections within road right-of-way, but large amount through new city-maintained access road along escarpment• Steep slopes on some sections through escarpment		<ul style="list-style-type: none">• Some sections within road right-of-way, with majority of alignment through new city maintained access road through future industrial lands• Steep section is within road right-of-way on 2nd Dug Hill Road	

Evaluation Criteria				Alternatives Evaluation					
Category	Criteria	Description	Main Consideration	A - Existing Sewer Alignment		B - Escarpment Alignment		C - Industrial Lands Alignment	
Natural Environment	Terrestrial Systems	Potential impacts to the local vegetation, trees, wildlife, and species at risk due to construction and crossings	<ul style="list-style-type: none">• Smaller area of forest being impacted is preferred as it is less disturbance on the natural environment and habitats• Preference is to have as little of the alignment within Lower Trent Conservation (LTC) Authority regulation limit as possible• Shortest length of open cut work in green area is preferred• Alignment with less impact to wildlife habitat is preferred• Lowest potential to impact species at risk is preferred	<ul style="list-style-type: none">• Through developed residential area, with some parts through the escarpment and across the wetland area at the bottom of the escarpment• Estimated forest area impacted 3,161 m2• Estimated area of LTC Screening area 18,468 m2• Potential bat habitat within the alignment		<ul style="list-style-type: none">• Along 2nd Dug Hill Rd and the escarpment with mature forests, and across the wetland area at the bottom of the escarpment• Estimated forest area impacted 9,084 m2• Estimated area of LTC Screening area 23,136 m2• Potential bat habitat within the alignment		<ul style="list-style-type: none">• Along 2nd Dug Hill Rd and through the City's proposed Carrying Place Industrial park along abandoned rail corridor and existing hydro corridor• Estimated forest area impacted 1,364 m2• Estimated area of LTC Screening area 23,075 m2• Potential bat habitat within the alignment	
	Aquatic Systems	Potential impact to the local aquatic flora and fauna, sensitive areas, regulated lands, and species at risk due to construction and crossings.	<ul style="list-style-type: none">• Alignment that is furthest away from watercourse is preferred• Alignment with fewer creek crossings is preferred	<ul style="list-style-type: none">• Requires 3 stream crossings• Potential Blanding's turtle habitat within the alignment		<ul style="list-style-type: none">• Requires 3 stream crossings• Potential Blanding's turtle habitat within the alignment		<ul style="list-style-type: none">• Requires 3 stream crossings.• Potential Blanding's turtle habitat within the alignment• Alignment passes existing pond on 2nd Dug Hill Rd	
Socio-Cultural Environment	Recreational Land Uses and Visual Landscape	Potential to impact existing parks and open spaces or impact the character of the existing community (i.e., interference with views)	<ul style="list-style-type: none">• Alignment with least impact to the spaces used by the community (i.e., least number of spaces and shortest duration of impact) are preferred	<ul style="list-style-type: none">• No impact to existing parks and open space.• Some impact to existing informal trail network along existing alignment		<ul style="list-style-type: none">• No impact to existing parks• High impact to forested area on escarpment due to tree removal• A new recreational trail would be created along the sewer alignment from the creation of an access road/ multi-use path		<ul style="list-style-type: none">• No impact to existing parks• Minimal impact to open spaces in proposed Industrial Park lands• Some impact to existing informal trail network along existing alignment	
	Future Planning Policies/ Initiatives	Compatibility with City growth initiatives and Master Plan Strategies (pump stations vs gravity sewers)	<ul style="list-style-type: none">• An alignment that can facilitate servicing of future lands without the need for additional pump stations is preferred	<ul style="list-style-type: none">• This alignment passes through fully developed areas, making servicing undeveloped lands by gravity sewers infeasible		<ul style="list-style-type: none">• This alignment passes through the escarpment, adjacent to mostly fully developed areas, making servicing most of the undeveloped lands by gravity sewers infeasible		<ul style="list-style-type: none">• This alignment passes south on 2nd Dug Hill Road which allows for the possibility of servicing the most undeveloped lands west of the road by gravity sewers	
	Disruption During Construction	Disruption to existing community during construction (traffic, noise, and air quality)	<ul style="list-style-type: none">• Alignment preferred to be in non-residential areas• Alignment preferred to result in least disruptions to key roadways• Alignment preferred if there is no long-term odour or noise concerns	<ul style="list-style-type: none">• Disruption to residents is highest as large amount of alignment is within the existing road right-of-way through developed neighborhoods		<ul style="list-style-type: none">• Some disruption to residents along the escarpment in the back yards of existing houses and along 2nd Dug Hill Rd. Alternative roads are available for detours		<ul style="list-style-type: none">• Minimal disruption to residents due to construction mostly along old rail line and hydro corridor.• Some disruption to residents on 2nd Dug Hill Rd, however alternative roads are available for detours	

Evaluation Criteria				Alternatives Evaluation					
Category	Criteria	Description	Main Consideration	A - Existing Sewer Alignment		B - Escarpment Alignment		C - Industrial Lands Alignment	
Socio-Cultural Environment (continued)	Archaeological Potential	Potential impacts to archaeological resources	<ul style="list-style-type: none">• Alignment preferred to have little to no future archaeological potential	<ul style="list-style-type: none">• Parts of the alignment exhibit archaeological potential. These lands require Stage 2 archaeological assessment by test pit and pedestrian survey. This alternative has the least amount of Stage 2 assessment required• Parts of the alignment do not retain archaeological potential on account of deep and extensive land disturbance and low and wet conditions. These lands do not require further assessment		<ul style="list-style-type: none">• Parts of the alignment exhibit archaeological potential. These lands require Stage 2 archaeological assessment by test pit and pedestrian survey. This alternative has the most amount of Stage 2 assessment required• Parts of the alignment do not retain archaeological potential on account of deep and extensive land disturbance and low and wet conditions. These lands do not require further assessment		<ul style="list-style-type: none">• Parts of the alignment exhibit archaeological potential. These lands require Stage 2 archaeological assessment by test pit and pedestrian survey. This alternative has a moderate amount of Stage 2 assessment required• Parts of the alignment do not retain archaeological potential on account of deep and extensive land disturbance and low and wet conditions. These lands do not require further assessment	
	Cultural Heritage Resource Potential	Potential impacts to cultural heritage resources	<ul style="list-style-type: none">• Alignment preferred to pose little to no permanent and/or temporary impact to adjacent sites/properties that are culturally significant	<ul style="list-style-type: none">• CHL1: No direct or indirect impact expected• CHL 2: Direct impact due to alignment grazing the western boundary of the landscape along with the entire area being within the buffer• CHL 3: Direct impact due to alignment cutting through northeastern side of area along with the entire area being within the buffer• CHL 4: Direct impact as trail is immediately adjacent to route in some sections• CHL 5: Direct impact as the alignment and buffer are within the landscape• BHR 1: Indirect as buffer is partially through this area• BHR 2: No impact as buffer grazes the parcel• CF 1: Indirect impacts may occur as it is within the buffer• CF 2: Indirect impacts may occur as it is within the buffer• Summary: similar impacts as other alternatives to cultural heritage resources and landscapes but with the added impact to CHL 5		<ul style="list-style-type: none">• CHL1: No direct or indirect impact expected• CHL 2: Direct impact due to alignment grazing the western boundary of the landscape along with the entire area being within the buffer• CHL 3: Direct impact due to alignment cutting through northeastern side of area along with the entire area being within the buffer• CHL 4: Directly impacted as trail is immediately adjacent to route in some sections• CHL 5: Direct impact as the alignment and buffer are within the landscape• BHR 1: Indirect as buffer is partially through this area• BHR 2: No impact as buffer grazes the parcel• CF 1: Indirect impacts may occur as it is within the buffer• CF 2: Indirect impacts may occur as it is within the buffer• Summary: similar impacts as other alternatives to cultural heritage resources and landscapes but with the added impact to CHL 5		<ul style="list-style-type: none">• CHL1: No direct or indirect impact expected• CHL 2: Direct impact due to alignment grazing the western boundary of the landscape along with the entire area being within the buffer• CHL 3: Direct impact due to alignment cutting through northeastern side of area along with the entire area being within the buffer• CHL 4: Directly impacted as trail is immediately adjacent to route in some sections• CHL 5: No impact• BHR 1: Indirect as buffer is partially through this area• BHR 2: No impact as buffer grazes the parcel• CF 1: Indirect impacts may occur as it is within the buffer• CF 2: Indirect impacts may occur as it is within the buffer• Summary: similar impacts as other alternatives to cultural heritage resources and landscapes but no impact to CHL 5	

Evaluation Criteria				Alternatives Evaluation					
Category	Criteria	Description	Main Consideration	A - Existing Sewer Alignment		B - Escarpment Alignment		C - Industrial Lands Alignment	
Economic Factors	Capital Cost	Estimated Capital Costs	• Capital costs includes engineering, construction, and commissioning. Construction cost includes: open-cut excavation, tunnelling, shaft construction, cost of pipe, site preparation and restoration. Also includes re-instatement, mobilization/demobilization, traffic management, bonding, dewatering, etc.Lower capital cost alternative preferred	• This alignment is proposed to be constructed by open cut method and is expected to have moderate costs due to the highest amount of work within the road right-of-way and resulting asphalt restoration even with the shortest length		• This alignment is proposed to be constructed mostly by open cut method with some sections tunneled along the escarpment. As a result of the tunnelling, this alignment is expected to be the costliest		• This alignment is proposed to be constructed by open cut method and is expected to be the least costly due to most of the alignment being along the old rail line and existing hydro corridor	
	Operation and Maintenance Cost	Estimated Operational and Maintenance Costs	• Operational expenditure incurred throughout the life of the asset, including labour, power and consumables and asset monitoring. Lower operation and maintenance cost alternative preferred.	• This alignment has the shortest length, resulting in the lowest O&M costs		• This alignment has a 4% longer length than Alternative A, resulting in a marginally higher O&M cost		• This alignment has a 4% longer length than Alternative A, resulting in a marginally higher O&M cost	
Overall				Moderately Favorable		Least Favourable		Most Favourable	

3.3 Preferred Alternative

The preferred alternative presented in the evaluation matrix in Table 3-2 is Alternative C – Industrial Lands Alignment. It scored the most favourable considering all the criteria evaluated.

4. Implementation

Upon completion of the EA, the preferred alternative will proceed to the design stage. Contract drawings and documents will be prepared and will then proceed to construction and operation.

5. Consultation

5.1 Stakeholder Consultation

Because this project falls under a Schedule B MCEA, the EA Act requires consultation with the public, stakeholders, and agencies on matters that may affect the environment. Proponents must also contact relevant agencies and affected members of the public, who must be given an opportunity to comment on or ask questions about the study, solution alternatives, and preferred solution. A stakeholder contact list for this project, for those parties in addition to the public, is included in Appendix D.

Stakeholder consultation for this project included the following:

- Phase 1 MCEA – Notice of Study Commencement was advertised in Trenton June 28, 2022, and the City of Quinte West website, and was provided directly through mailing to the contact list.
- Phase 2 MCEA – Public Information Centre, held on October 11, 2022 advertised in the Notice of Public Information Centre issued on September 28, 2022.
- Phase 2 MCEA – 30-Day review of Project File (current stakeholder consultation).
- Phase 5 MCEA – Notice of Study Completion (to be completed after 30-day review period).

5.2 Public Consultation Materials

Input from the public and agencies contacted, as received via written comments sheets, emails and/or letters is included in Appendix D of this report.

Appendix A. Desktop Natural Features Assessment Report

Desktop Natural Features Technical Memorandum (TM) - Schedule B Municipal Class Environmental Assessment (EA)

Project Name: City of Quinte West FBI Sanitary Trunk Sewer Upgrades
Attention: City of Quinte West
From: Jacobs Ontario Ecology Team
Date: January 5, 2023
Revision: Final
Project Number: CE846800

1. Introduction

The recently completed City of Quinte West ("City") Water and Wastewater Master Plan Study (2021) identified the need to upgrade the existing West Sanitary Trunk Sewer (STS) to meet the servicing needs of existing and future developments to the year 2046. The City of Quinte West has therefore initiated a Schedule B Municipal Class Environmental Assessment (EA) to confirm and refine the preferred alternative to support the proposed growth around Highway 2 and 2nd Dug Hill Road.

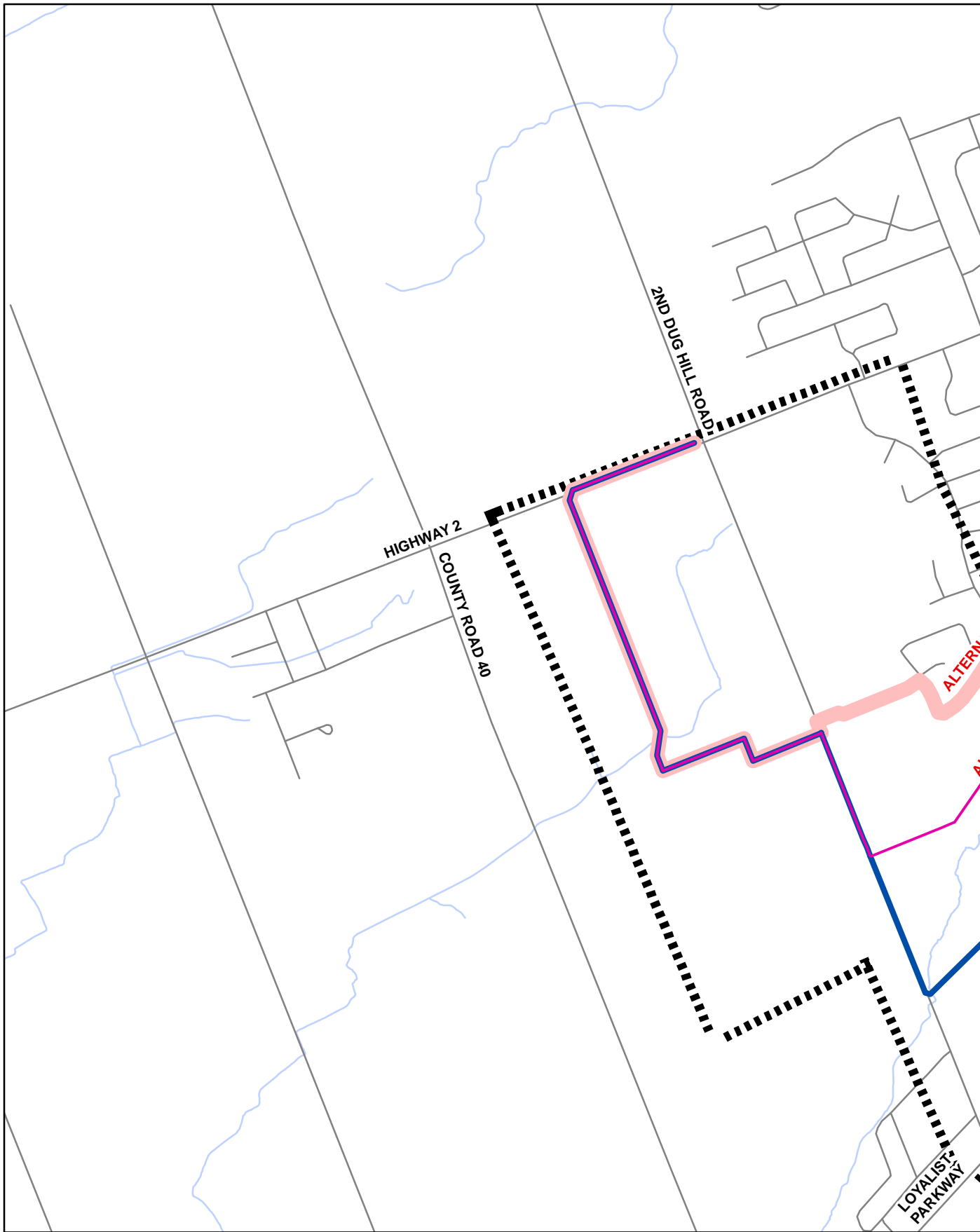
The study represents an opportunity to develop alternative solutions, assess their technical viability, and conduct a comprehensive evaluation to select a preferred alternative using the Schedule B Municipal Class EA framework. The assessment is being carried out according to the planning and design process for Schedule B projects under the Environmental Assessment Act, 1990 as outlined in the Municipal Engineers Association's Municipal Class EA document (2000, as amended in 2007, 2011, and 2015).

Based on current progress of the EA, the following three alternatives (see Figure 1 below) were shortlisted and will be evaluated to identify a preferred solution:

- Alternative A – Existing Sewer Alignment
- Alternative B – Escarpment Alignment
- Alternative C – Industrial Lands Alignment

The purpose of this Technical Memorandum (TM) is to identify Natural Features which may occur within the Study Area, based on a desktop investigation. This desktop, baseline ecological assessment is based on the limits of the Study Area, which includes 2nd Dug Hill Road, north of Loyalist Parkway and Carrying Place Road, and along the Eastern marina which abuts the Trent River, in Trenton, Ontario. This TM also comments on the preferred alternatives against potential impacts from an ecological perspective.

Figure 1. Study Area



0 100 200
Meters

Proposed Trunk Sewer

- Alternative A
- Alternative B
- Alternative C

- Watercourse
- Waterbody
- Study Area

2. Existing Conditions

2.1 Description of Study Area

The Study Area stretches from the Eastern marina at the Trent River west to beyond 2nd Dug Hill Road and just before County Road 40 (Figure 1). It is encompassed by Carrying Place Road to the south and Highway 2 to the north. The Study Area includes commercial areas and parklands to the east, including Fraser Park, Buster Alyea Park, Hanna Park, and an industrial park to the south, with residential areas to the north. Agricultural lands occur to the northwest and natural areas occur within the centre of the Study Area (Figure 2).

2.2 Background Review

Available online natural heritage background data were accessed on June 20, 2022. Agencies were also consulted (Attachment 1), to obtain natural heritage information for the Study Area, including the following (but not limited to):

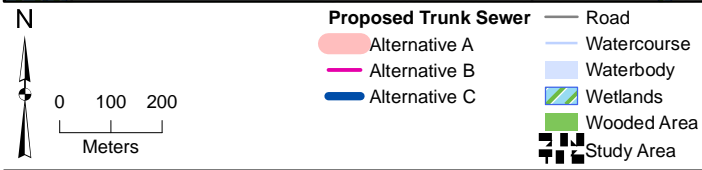
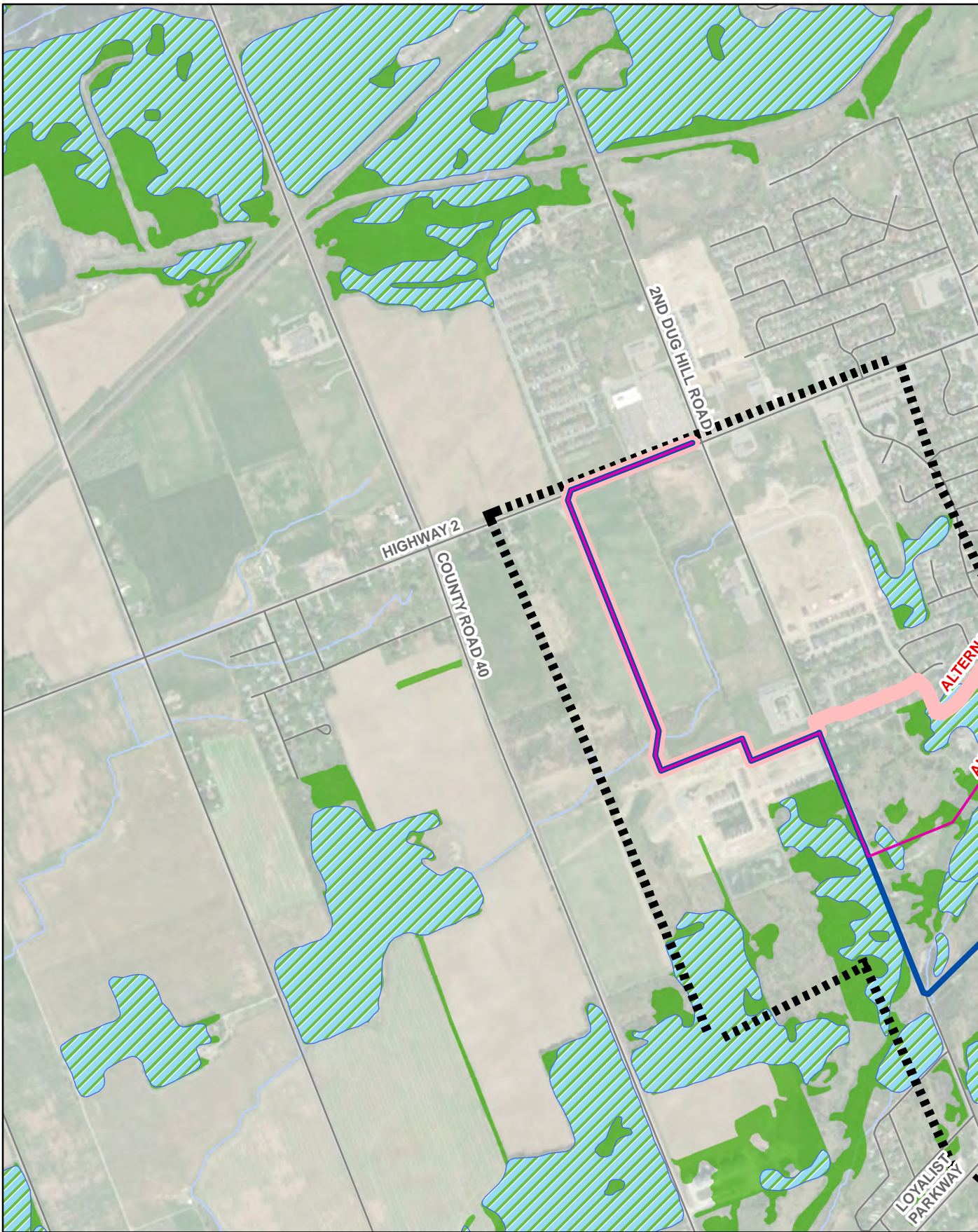
- Ministry of Northern Development, Mines, Natural Resources and Forestry (NDMNRF) Natural Heritage Information Centre (NHIC, 2021) and Lands Information Ontario (LIO) datasets (NDMNRF, 2020)
- Lower Trent Conservation Map Viewer (LTC, 2022)
- Lower Trent Conservation, Conservation Report 2018 (LTC, 2018)
- Lower Trent Conservation, Conservation Lands Strategy (LTC, 2017)
- Ontario Breeding Bird Atlas (OBBA) data (Bird Studies Canada, 2021)
- Consultation with the MECP (Attachment 1)
- DFO online aquatic SAR and Critical Habitat mapping tool (DFO, 2019)
- iNaturalist (iNaturalist, 2022).

Attachment 2 provides the results of the NHIC and OBBA query. Natural Heritage boundaries from LIO are illustrated on Figure 2.

2.3 Natural Environment

The Study Area encompasses a mix of agricultural, industrial, residential, and natural areas. The Study Area occurs within the Lower Trent Conservation Regulated Area (Figure 2).

Figure 2. Desktop Background Natural Heritage



2.3.1 Physical Environment

Topography within the Study Area includes generally level lands that gently slope south towards the Bay of Quinte within the Study Area's southern portion. However, steep portions of the Trenton Escarpment occur to the north, within Alternative B (Figure 2). The Study Area is underlain by loam and silty clay loam, originating from till plain areas to the north (LTC, 2018).

2.3.2 Terrestrial Systems

Based on a desktop review, the Study Area is dominated by residential and industrial areas, agricultural fields, with some woodlands, including the Trenton Escarpment. The Trenton Escarpment Natural Habitat Area is partially located within the Study Area adjacent to Hanna Park. It is approximately 7.7 hectares in size and is heavily forested with a centrally located swamp and intermittent stream that flows through the Study Area (LTC, 2017).

2.3.3 Wetlands

Based on a review of the NDMNRF Natural Heritage Information Centre (NHIC), Make A Map: Natural Heritage Areas (NHIC, 2021), unevaluated wetlands occur within the Study Area, particularly, at the base of the Trenton Escarpment as well as along 2nd Dug Hill Road.

2.3.4 Wildlife

The Study Area includes various natural ecological zones, adjacent to open and disturbed areas which provides wildlife corridors. Suitable habitat for a variety of urban tolerant/adapted wildlife species would inhabit the area. Larger natural areas of forests and wetland also occur providing niche habitat for a range of fauna. Section 2.3.6 provides additional information on the background screening for Species at Risk (SAR) wildlife which could potentially occur within or proximal to the Study Area.

2.3.5 Aquatic Habitat

The Study Area is located north of the Bay of Quinte, with the Trent River abutting it to the east. Drainage tributaries occur in the southern portion of the Study Area, flowing south through industrial and residential areas, which drain to the Bay of Quinte. Drainage tributaries are also located within the northwest portion of the Study Area, flowing west through agricultural and residential areas. An unnamed tributary flows southwest from Hanna Park through the Trenton Escarpment and wetland marshes, out of the Study Area and eventually connecting to Dead Creek, which is located south and outside of the Study Area. Based on the results of the desktop review, fish and fish habitat are likely to be present within the tributaries identified within the Study Area.

2.3.6 Species at Risk

According to the NHIC, Fisheries and Oceans Canada (DFO), the Ontario Breeding Bird Atlas (OBBA), and iNaturalist databases and mapping, the SAR listed in Table 2-1 may occur within the vicinity of the Study Area.

The OBBA lists species breeding within a square as possible, probable, or confirmed based on observed behaviour and/or nesting evidence. Species confirmed breeding in the appropriate OBBA square are included below. While the NHIC utilizes provincial wide 1 km x 1 km (1 km²) square grid system, the OBBA utilizes a 10 km x 10 km (100 km²) square grid system. It is important to note that due to the large spatial extent of the OBBA squares (100 km²), and the fact that the exact locations of species occurrences are not available, the OBBA results do not necessarily confirm species presence and/or absence. Special Concern species are included though they are not protected under the *Endangered Species Act (ESA)* as administered by the MECP. However, habitat for Special Concern species can be afforded protection under Significant Wildlife Habitat (SWH) Criteria, which will be discussed further below.

Table 2-1. SAR from Background Search

Common Name	Scientific Name	Preferred Habitat ^[a]	NHIC ^[b]	SAR
Northern Bobwhite	<i>Colinus virginianus</i>	Grasslands and farm fields, small forests occasionally used in the winter. Found in southwestern Ontario.	S1?B	END
Least Bittern	<i>Ixobrychus exilis</i>	Freshwater marshes with dense emergent vegetation including <i>Typha sp.</i> Nesting occurs on top of bent marsh vegetation.	S5B	THR
Black Tern	<i>Chlidonias niger</i>	Shallow marshes, particularly cattails.	S3B, S4M	SC
Short-eared Owl	<i>Asio flammeus</i>	Open areas including grasslands, marshes, and tundra.	S4?B, S2S3N	SC
Common Nighthawk	<i>Chordeiles minor</i>	Forest openings, rock outcrops, and fields with sparse cover or bare patches. Nesting occurs on bare ground.	S4B	SC
Eastern Whip-poor-will	<i>Antrostomus vociferus</i>	Open or forested areas with mature deciduous, coniferous, or mixed forests.	S4B	THR
Red-headed Woodpecker	<i>Melanerpes erythrocephalus</i>	Open deciduous woodlands; prefers Oak stands, urban parks, and river edges. Nesting occurs within cavities of a dead tree.	S3	SC
Loggerhead Shrike	<i>Lanius ludovicianus</i>	Pastures, grasslands, or fields with short grass or scattered low trees and shrubs.	S1B	END
Bank Swallow	<i>Riparia riparia</i>	Steep banks, lakeshore bluffs, and open areas. Nesting occurs within steep features such as cliffs and stockpiles, within fine-medium sand.	S4	THR
Barn Swallow	<i>Hirundo rustica</i>	Open rural and urban areas, where bridges, culverts, and buildings are located proximal to water features. Nesting occurs on erected structures.	S4B	THR
Cerulean Warbler	<i>Setophaga cerulea</i>	Found in southern Ontario in the summer in deciduous forests with tall trees.	S2B	THR

Common Name	Scientific Name	Preferred Habitat ^[a]	NHIC ^[b]	SAR
Golden-winged Warbler	<i>Vermivora chrysoptera</i>	Moist shrubby fields, forest edges, and successional new growth. Nesting occurs on the ground.	S3B	SC
Canada Warbler	<i>Cardellina canadensis</i>	Wet forest types with well-developed and dense shrub layers.	S5B	SC
Evening Grosbeak	<i>Coccothraustes vespertinus</i>	Open, mature mixed-wood forests dominated by fir species, White Spruce, or Trembling Aspen.	S4	-
Grasshopper Sparrow	<i>Ammodramus savannarum</i>	Grasslands and grassy meadows with sparse tree and shrub cover.	S4B	SC
Bobolink	<i>Dolichonyx oryzivorus</i>	Tall, grassy meadows, ditches, hayfields, and croplands. Nesting occurs on the ground, typically within hayfields.	S4B	THR
Eastern Meadowlark	<i>Sturnella magna</i>	Grassy meadows and pastures. Nesting occurs on a scrape or depression on the ground.	S4B, S3N	THR
Wood Thrush	<i>Hylocichla mustelina</i>	Large, mature deciduous and mixed forests. Nesting occurs within the understory on seedlings or saplings. Prefers Maple and Beech species.	S4B	SC
Piping Plover	<i>Charadrius melodus</i>	Dry sandy or gravel beaches.	S1B	END
American White Pelican	<i>Pelecanus erythrorhynchos</i>	Barren or sparsely treed islands in lakes, reservoirs, or large lakes.	S3B, S4M	THR
Eastern Wood-Pewee	<i>Contopus virens</i>	Mid-canopy forager within deciduous or mixed forests. Prefers forested areas with limited groundcover vegetation. Nesting occurs on the branches of a deciduous tree.	S4B	SC
Chimney Swift	<i>Chaetura pelagica</i>	Nests are often in rural and urban settlements in chimneys and other structures. Nests are found near water for foraging opportunity.	S3B	THR

Common Name	Scientific Name	Preferred Habitat ^[a]	NHIC ^[b]	SAR
Channel Darter	<i>Percina copelandi</i>	Clean streams and lakes with gravel or sandy bottoms.	S3	THR
River Redhorse	<i>Moxostoma carinatum</i>	Medium to large rivers with strong flow. In Ontario it is found in the Bay of Quinte and the Trent River.	S2	SC
Grass Pickerel	<i>Esox americanus</i>	Ponds, wetlands, slow-moving streams, and shallow bays with an abundance of aquatic plants and warm clear water.	S3	SC
American Eel	<i>Anguilla rostrata</i>	Fresh water and salt water that are accessible from the Atlantic Ocean.	S1S2	END
Northern Sunfish	<i>Lepomis peltastes</i> <i>population 2</i>	Slow rivers, streams, lakes, and ponds with warm, slow-flowing water. They prefer aquatic vegetation and beds of sand or cobble.	S3	SC
Eastern Pondmussel	<i>Ligumia nasuta</i>	Lakes or slow-moving rivers with sheltered areas with sandy or muddy bottoms.	S1	END
Butternut	<i>Juglans cinerea</i>	Deciduous forests with moist, well-drained soil with abundant sunlight.	S2?	END
<i>Potamogeton hillii</i> X <i>Potamogeton</i> <i>zosteriformis</i>	<i>Potamogeton x ogdenii</i>	Cold, clear, slow-moving streams, ditches, and points with muddy beds.	NA	END
Black Ash	<i>Fraxinus nigra</i>	Seasonally flooded wetlands, commonly found in mixed deciduous-conifer or conifer-dominated swamps.	S4	-
Blanding's Turtle	<i>Emydoidea blandingii</i>	Wetlands and lakes with shallow water and plentiful aquatic vegetation.	S3	THR
Snapping Turtle	<i>Chelydra serpentina</i>	Shallow water with beds of mud and leaf litter.	S4	SC

Common Name	Scientific Name	Preferred Habitat ^[a]	NHIC ^[b]	SAR ^[c]
Eastern Milksnake	<i>Lampropeltis triangulum</i>	Meadows, fields, rocky outcrops, and forests, including deciduous, coniferous, and mixed forests.	S4	-
Northern Map Turtle	<i>Graptemys geographica</i>	Deep rivers and lakeshores with emergent rocks for basking and fallen trees.	S3	SC
Eastern Musk Turtle	<i>Sternotherus odoratus</i>	Ponds, lakes, marshes, and rivers that have slow-flowing water with emergent vegetation and muddy beds.	S3	SC
Western Chorus Frog - Great Lakes - St. Lawrence - Canadian Shield population	<i>Pseudacris maculata</i> population 1	Woodlands, fallow lands, meadows, and pastures, with shallow temporary ponds.	S4	-
Monarch	<i>Danaus plexippus</i>	Meadows and grasslands where milkweed plants are found.	S2N, S4B	SC
Rusty-patched Bumble Bee	<i>Bombus affinis</i>	Open areas including farmlands, woodlands, and grasslands.	S1	END

^[a] (Government of Ontario, 2020) and (Government of Canada, 2021)

^[b] NHIC Subnational Rank

^[c] Species at Risk Ontario

^[d] Species at Risk Act (SARA)

- = Not at Risk

?= more data required

END = Endangered, THR = Threatened, SC = Special Concern

S1 = Critically Imperiled (often 5 or fewer occurrences)

S2 = Imperiled (often 20 or fewer occurrences)

S2B = Provincial species of Special Concern, imperiled breeding status rank

S2N = Provincial species of Special Concern, imperiled non-breeding status rank

S3 = Vulnerable (restricted range with relatively few populations - often 80 or fewer)

S3B = Vulnerable breeding population (restricted range with relatively few populations – often 80 or fewer)

S4 = Uncommon but not rare; some cause for long-term concern due to declines or other factors

S4B = Provincial species of Special Concern, apparently secure breeding status rank

S4N = Provincial species of Special Concern, apparently secure non-breeding status rank

S5 = Secure species, common, widespread, and abundant

S5B = Common species, secure breeding status rank

The MECP was contacted on July 13, 2022 (Attachment 1), to screen the Project for additional SAR information. The Ministry has not provided a response to date.

2.4 Ecological Desktop Review of Alternatives and Scoring

Background Information on Proposed Alternatives

The City of Quinte West has initiated a Schedule B Municipal Class EA to confirm and refine the preferred alternative to support the proposed growth around Highway 2 and 2nd Dug Hill Road. The following alternatives (Figure 2) have been shortlisted and are being evaluated in order to recommend a preferred solution as part of the Schedule B Municipal Class EA process:

- Alternative A – Existing Sewer Alignment
- Alternative B – Escarpment Alignment
- Alternative C – Industrial Lands Alignment

All three STS alternatives start at the intersection of Highway 2 and 2nd Dug Hill Road, and then run west, south, and east respectively, until they meet 2nd Dug Hill Road. At this point, the three alternative alignments separate, until they all converge in a south-central location within Hannah Park. At that point, the alternatives run north of and generally parallel to the Lake Ontario shoreline until terminating at the Trent River.

It is assumed as part of the ecological evaluation that the proposed STS would be constructed via open-cut for each alternative.

Fish Habitat

Based on a desktop review, all three alternates would involve three stream crossings each (Figure 2), and therefore potential impacts to fish and fish habitat could occur. It is assumed that a trenchless technology approach could be implemented with shafts located within disturbed areas. As such, impacts to fish and fish habitat could be mitigated at the crossing. Open-cut work within the stream would have direct impacts on fish and fish habitat, although, through isolation techniques (i.e., cofferdams), direct impacts onto fish could be avoided. Impacts to fish and fish habitat will have to be assessed as part of an Environmental Impact Study (EIS) once the preferred alternative and construction methodology is selected.

Terrestrial and Forested Areas

Alternative A, the current and shortest alignment (5,406 m), generally runs through a developed, residential area. While relatively minor terrestrial/wetland effects are predicted as part of the overall STS upgrades for this alignment; approximately 3,200 m² of forested/wetland area will be impacted as the alternative runs through a large portion of the Trenton Escarpment. It would also result in moderate potential impacts to residents.

The Alternative B alignment traverses the northern edge of Hannah Park and the Trenton Escarpment Area, and is similar in length (5,637m) to Alternative C. Construction of this alignment will result in the most significant impacts to forest/wetland areas (9,084 m²),

particularly within the Trenton Escarpment and will result in moderate potential impacts to residents.

Alignment C runs along the southern edge of Hannah Park and the southern bottomland of the Trenton Escarpment forested area, spanning 5,656 m in length. Construction of this alignment will result in relatively low to moderate terrestrial effects and the least number of impacts (approximately 1,364 m²) to forested areas. It also represents the least number of potential impacts to residents.

Wetlands

Based on a desktop investigation, all three alternatives cross or abut wetland habitat. However, field surveys as part of the EIS have been carried out, wetland habitat as mapped by LIO along the industrial park areas of Alternative C (north of Carrying Place Road) do not occur. The EIS will provide further details of the field results. As such, Alternative C would be limited to a wetland crossing along 2nd Dug Hill Road. Whereas Alternative B would require the same wetland crossing as well as direct impacts onto wetlands, east of Hanna Park. Alternative A would result in the same direct impacts to wetlands, east of Hanna Park as Alternative B. Trenchless technology and strategic placement of shafts outside of wetland habitat could significantly reduce or avoid impacts onto wetlands entirely for Alternative C.

3. Selection of Recommended Alternative from an Ecological Perspective

Based on the results of the desktop study as presented within Section 2.4, the following alternatives have been selected in order of preferred solutions from an ecological perspective:

1. Alternative C – Industrial Lands Alignment
2. Alternative A – Existing Sewer Alignment
3. Alternative B – Escarpment Alignment

Both Alternatives A and B would require an alignment through a large section of the forested and wetland areas of the Trenton Escarpment. Alternative C is preferred due to a reduced impact area within forested areas and potential opportunity to avoid direct works within wetland habitat. Alternative B is least preferred from an ecological perspective due to the amount of forest and wetland habitat (Trenton Escarpment) which would need to be cleared. Alternative A is then 2nd most preferred from an ecological perspective as less habitat fragmentation would be required compared to Alternative B due to the existing residential areas, east of 2nd Dug Hill Road within this alternative.

4. Natural Environment Regulatory Considerations and Future Studies

The following provides a summary of the likely regulatory requirements for the Project upon analysis at the EA stage. These requirements may change depending on the results of field surveys and consequently the preferred alternative design. An EIS will be completed at the detailed design stage of the Project. The results of detailed field surveys will be provided within

the EIS for the preferred alternative to further assess the potential for environmental effects because of the Project. The environmental effects of the project will need to be assessed, mitigation measures and a monitoring plan will have to be developed, and compensation or a planting plan may need to be prepared.

As indicated above, there is the potential for SAR to be located within the Study Area. If SAR are observed during field studies (or if SAR habitat is confirmed) within areas that will be affected by the project, then the MECP will need to be consulted and permitting under the *ESA* may be required. MECP shall be consulted again at the detailed design stage should a response not be provided from the original SAR screening during the EA stage.

It is expected that there will be at least three stream crossings required as part of the Project. It is possible that regulatory review and/or approval will be required by DFO. Their involvement would also be required if there were any aquatic SAR that could be affected by the Project.

The Study Area occurs within the Lower Trent Conservation Regulated Area. As a result of potential impacts to wetlands and other natural features, consultation and approval by Lower Trent Conservation regarding the *Development, Interference with Wetlands and Alterations to Shorelines and Watercourses Regulation 163/06* is required.

The NDMNRF will also need to be consulted to determine permitting requirements. Any in-water works (and possibly near-water works) will need to consider construction timing window restrictions for fish, and collection permits will be required if fish and/or wildlife (i.e., amphibians) need to be captured and relocated prior to construction.

Some City and County permits and approvals may be needed for the Project. For example, it is likely that trees will be removed as part of STS construction activities. City and/or Hastings County tree cutting by-laws will need to be adhered to. This will likely require that vegetation and tree inventories be conducted, and an Arborist Report prepared.

5. Conclusion

Section 3 provided the alternatives selected in order of preferred solutions from an ecological perspective. An EIS will provide the results of the field surveys, locations of Natural Features and/or SAR, SWH and fish habitat assessment, an impact assessment and a series of recommendations and mitigation to reduce or eliminate potential impacts to Natural Features as a result of the proposed STS construction, once a preferred solution is selected. Natural Environment permitting with Lower Trent Conservation is expected, while DFO review may be required. Implementation of trenchless technology at both watercourse and wetland crossings could significantly reduce direct impacts onto these features or avoid entirely. Trenchless technology should be considered as part of the EA and detailed design.

6. References

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Attachment 1
Agency Communication

Chen, Helen

From: Chen, Helen
Sent: Wednesday, July 13, 2022 8:43 PM
To: Species at Risk (MECP)
Subject: SAR Screening - Quinte West
Attachments: StudyArea.pdf

Good evening,

The City of Quinte West is undertaking a Municipal Class Environmental Assessment (EA) Study to identify, develop and implement a solution to address future capacity needs and existing sanitary sewer issues in the West end of Trenton.

The West End Trunk Sanitary Sewer services a large area that is projected to experience substantial growth. Therefore, this study is to ensure reliable sanitary service is provided to existing areas and future growth areas.

Please see figure of site attached. We have screened the project for SAR utilizing the NHIC, OBBA, DFO and iNaturalist below. Could you please let us know if there are any additional SAR to add?

Common Name	Scientific Name	S Rank	SARO	COSEWIC	SARA
Northern Bobwhite	<i>Colinus virginianus</i>	S1?B	END	END	END
Least Bittern	<i>Botaurus lentiginosus</i>	S5B	-	-	-
Black Tern	<i>Chlidonias niger</i>	S3B, S4M	SC	NAR	-
Short-eared Owl	<i>Asio flammeus</i>	S4?B, S2S3N	SC	SC	SC
Common Nighthawk	<i>Chordeiles minor</i>	S4B	SC	SC	THR
Eastern Whip-poor-will	<i>Antrostomus vociferus</i>	S4B	THR	THR	THR
Chimney Swift	<i>Chaetura pelagica</i>	S3B	THR	THR	THR
Red-headed Woodpecker	<i>Melanerpes erythrocephalus</i>	S3	SC	END	THR
Eastern Wood-Pewee	<i>Contopus virens</i>	S4B	SC	SC	SC
Loggerhead Shrike	<i>Lanius ludovicianus</i>	S1B	END	END	
Bank Swallow	<i>Riparia riparia</i>	S4	THR	THR	THR
Barn Swallow	<i>Hirundo rustica</i>	S4B	THR	THR	THR
Wood Thrush	<i>Hylocichla mustelina</i>	S4B	SC	THR	THR
Golden-winged Warbler	<i>Vermivora chrysoptera</i>	S3B	SC	THR	THR
Cerulean Warbler	<i>Setophaga cerulea</i>	S2B	THR	END	END
Canada Warbler	<i>Cardellina canadensis</i>	S5B	SC	SC	THR
Grasshopper Sparrow	<i>Ammodramus savannarum</i>	S4B	SC	SC	-
Bobolink	<i>Dolichonyx oryzivorus</i>	S4B	THR	THR	THR
Eastern Meadowlark	<i>Sturnella magna</i>	S4B, S3N	THR	THR	THR
Evening Grosbeak	<i>Coccothraustes vespertinus</i>	S4	-	SC	SC
Great Egret	<i>Ardea alba</i>	S2B, S3M	-	-	-
Piping Plover	<i>Charadrius melodus</i>	S1B	END	END	-
American White Pelican	<i>Pelecanus erythrorhynchos</i>	S3B, S4M	THR	NAR	-
Blanding's Turtle	<i>Emydoidea blandingii</i>	S3	THR	END	

Snapping Turtle	<i>Chelydra serpentina</i>	S4	SC	SC	SC
Eastern Milksnake	<i>Lampropeltis triangulum</i>	S4	NAR	SC	SC
Northern Map Turtle	<i>Graptemys geographica</i>	S3	SC	SC	SC
Midland Painted Turtle	<i>Chrysemys picta marginata</i>	S4	-	SC	-
Eastern Musk Turtle	<i>Sternotherus odoratus</i>	S3	SC	SC	SC
Western Chorus Frog - Great Lakes - St. Lawrence - Canadian Shield populati	<i>Pseudacris maculata pop. 1</i>	S4	NAR	THR	THR
Mottled Darner	<i>Aeshna clepsydra</i>	S4	-	-	-
Monarch	<i>Danaus plexippus</i>	S2N,S4B	SC	END	SC
Rusty-patched Bumble Bee	<i>Bombus affinis</i>	S1	END	END	END
Channel Darter	<i>Percina copelandi</i>	S3	THR	-	THR
Northern Sunfish	<i>Lepomis peltastes pop. 2</i>	S3	SC	SC	SC
Eastern Pondmussel	<i>Ligumia nasuta</i>	S1	END	SC	SC
River Redhorse	<i>Moxostoma carinatum</i>	S2	SC	SC	SC
Grass Pickerel	<i>Esox americanus</i>	S3	SC	SC	-
American Eel	<i>Anguilla rostrata</i>	S1S2	END	THR	-
Butternut	<i>Juglans cinerea</i>	S2?	END	END	END

Thank you,

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 Jacobs
 Biologist | Ontario Ecology
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Attachment 2

NHIC and OBBA

OGF ID	Element Type	Common Name	Scientific Name	SRank	SARO Status	COSEWIC S
1074989	SPECIES	Mottled Darner	<i>Aeshna clepsydra</i>			
1074989	SPECIES	American Eel	<i>Anguilla rostrata</i>		END	THR
1074989	SPECIES	(Potamogeton hillii X Potamogeton zosteriformis)	<i>Potamogeton x ogdenii</i>		END	END
1074989	SPECIES	Midland Painted Turtle	<i>Chrysemys picta marginata</i>			SC
1074989	SPECIES	Eastern Meadowlark	<i>Sturnella magna</i>		THR	THR
1074989	SPECIES	Bobolink	<i>Dolichonyx oryzivorus</i>		THR	THR
1074989	SPECIES	Northern Map Turtle	<i>Graptemys geographica</i>		SC	SC
1074999	SPECIES	Mottled Darner	<i>Aeshna clepsydra</i>			
1074999	SPECIES	American Eel	<i>Anguilla rostrata</i>		END	THR
1074999	SPECIES	Northern Map Turtle	<i>Graptemys geographica</i>		SC	SC
1074990	NATURAL AREA	Trenton Escarpment				
1074990	SPECIES	Mottled Darner	<i>Aeshna clepsydra</i>			
1074990	SPECIES	(Potamogeton hillii X Potamogeton zosteriformis)	<i>Potamogeton x ogdenii</i>		END	END
1074990	SPECIES	Midland Painted Turtle	<i>Chrysemys picta marginata</i>			SC
1074990	SPECIES	Eastern Meadowlark	<i>Sturnella magna</i>		THR	THR
1074990	SPECIES	Northern Map Turtle	<i>Graptemys geographica</i>		SC	SC
1075000	NATURAL AREA	Trenton Escarpment				
1075000	SPECIES	Mottled Darner	<i>Aeshna clepsydra</i>			
1075000	SPECIES	American Eel	<i>Anguilla rostrata</i>		END	THR

1075000	SPECIES	(Potamogeton hillii X Potamogeton zosteriformis)	<i>Potamogeton x ogdenii</i>		END	END
1075000	SPECIES	Northern Map Turtle	<i>Graptemys geographica</i>		SC	SC
1074991	SPECIES	Mottled Darner	<i>Aeshna clepsydra</i>			
1074991	SPECIES	(Potamogeton hillii X Potamogeton zosteriformis)	<i>Potamogeton x ogdenii</i>		END	END
1074991	SPECIES	Eastern Milksnake	<i>Lampropeltis triangulum</i>		NAR	SC
1074991	SPECIES	Black Ash	<i>Fraxinus nigra</i>			THR
1075001	SPECIES	Mottled Darner	<i>Aeshna clepsydra</i>			
1075001	SPECIES	American Eel	<i>Anguilla rostrata</i>		END	THR
1075001	SPECIES	(Potamogeton hillii X Potamogeton zosteriformis)	<i>Potamogeton x ogdenii</i>		END	END
1075001	SPECIES	Snapping Turtle	<i>Chelydra serpentina</i>		SC	SC
1074992	SPECIES	Mottled Darner	<i>Aeshna clepsydra</i>			
1074992	SPECIES	(Potamogeton hillii X Potamogeton zosteriformis)	<i>Potamogeton x ogdenii</i>		END	END
1074992	SPECIES	Eastern Musk Turtle	<i>Sternotherus odoratus</i>		SC	SC
1074992	SPECIES	Western Chorus Frog - Great Lakes - St. Lawrence - Canadian Shield populati	<i>Pseudacris maculata pop. 1</i>		NAR	THR
1075002	SPECIES	Rusty-patched Bumble Bee	<i>Bombus affinis</i>		END	END
1075002	SPECIES	Speckled Giant Lacewing	<i>Polystoechotes punctata</i>			
1075002	SPECIES	Mottled Darner	<i>Aeshna clepsydra</i>			
1075002	SPECIES	American Eel	<i>Anguilla rostrata</i>		END	THR

1075002	SPECIES	Channel Darter	<i>Percina copelandi</i>		THR	
1075002	SPECIES	(Potamogeton hillii X Potamogeton zosteriformis)	<i>Potamogeton x ogdenii</i>		END	END
1075002	SPECIES	Chimney Swift	<i>Chaetura pelagica</i>		THR	THR
1075002	SPECIES	Northern Map Turtle	<i>Graptemys geographica</i>		SC	SC
1075002	SPECIES	Snapping Turtle	<i>Chelydra serpentina</i>		SC	SC
1074979	NATURAL AREA	WOOLER ROAD WOODS				
1074979	SPECIES	Mottled Darner	<i>Aeshna clepsydra</i>			
1074979	SPECIES	(Potamogeton hillii X Potamogeton zosteriformis)	<i>Potamogeton x ogdenii</i>		END	END
1074979	SPECIES	Bobolink	<i>Dolichonyx oryzivorus</i>		THR	THR
1074980	SPECIES	Mottled Darner	<i>Aeshna clepsydra</i>			
1074980	SPECIES	(Potamogeton hillii X Potamogeton zosteriformis)	<i>Potamogeton x ogdenii</i>		END	END
1074981	SPECIES	Mottled Darner	<i>Aeshna clepsydra</i>			
1074981	SPECIES	(Potamogeton hillii X Potamogeton zosteriformis)	<i>Potamogeton x ogdenii</i>		END	END
1074982	SPECIES	Mottled Darner	<i>Aeshna clepsydra</i>			
1074982	SPECIES	American Eel	<i>Anguilla rostrata</i>		END	THR
1074982	SPECIES	(Potamogeton hillii X Potamogeton zosteriformis)	<i>Potamogeton x ogdenii</i>		END	END
1074982	SPECIES	Butternut	<i>Juglans cinerea</i>		END	END

1074982	SPECIES	Western Chorus Frog - Great Lakes - St. Lawrence - Canadian Shield populati	<i>Pseudacris maculata pop. 1</i>		NAR	THR
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Ontario
Breeding
Bird Atlas

Square Summary (18TP98)

#species (1st atlas)				#species (2nd atlas)				#hours		#pc done	
poss	prob	conf	total	poss	prob	conf	total	1st	2nd	road	offrd
26	31	33	90	7	38	78	123	166	70	18	8

Region summary (#17: Northum

#squares		#sq with data		#species		#pc done	
1st	2nd	1st	2nd	1st	2nd	1st	2nd
41	39	41	170	187	1388		

Target number of point counts in this square: 17 road side, 8 off road (3 in treed wetlands, 1 in deciduous forest, 1 in mixed forest, 2 in pasture/grassland, 2 in open field). Please try to ensure that each off-road station is located such that the entire 100m radius circle is within the prescribed habitat.

SPECIES	Code		% 1st 2nd		SPECIES	Code		% 1st 2nd		SPECIES	Code		% 1st 2nd	
	1st	2nd	1st	2nd		1st	2nd	1st	2nd		1st	2nd	1st	2nd
Canada Goose	N	FY	58	95	Green Heron §	H	NE	89	95	Caspian Tern †				
Mute Swan		NY	2	31	Black-crown N.-Heron † §			15	2	<u>Black Tern</u> † §			CF	
Wood Duck	FY	FY	84	95	Turkey Vulture		T	76	95	Common Tern §				
Gadwall		P	10	19	Osprey		NY	43	75	Mourning Dove			N	NE
American Wigeon ‡		FY	2	14	Northern Harrier	P	FY	97	92	Yellow-billed Cuckoo				
American Black Duck	AE	AE	61	43	Sharp-shinned Hawk		CF	48	87	Black/Yell-billed Cuckoo				
Mallard	AE	NE	102	95	Cooper's Hawk		T	33	78	Black-billed Cuckoo			S	S
<u>Blue-winged Teal</u>	P		100	80	Northern Goshawk		T	17	36	Eastern Screech-Owl			P	
Northern Shoveler			7	9	<u>Red-should Hawk</u> †	H		35	43	Great Horned Owl			FY	
Northern Pintail			12	4	<u>Broad-winged Hawk</u>			43	63	<u>Barred Owl</u>				
Green-winged Teal		P	0	34	Red-tailed Hawk	P	AE	94	95	Long-eared Owl				
Redhead †			2	2	American Kestrel	N	AE	97	95	<u>Short-eared Owl</u> †			P	
Ring-necked Duck ‡		H	0	9	Merlin ‡			0	26	North Saw-whet Owl			T	
Lesser Scaup ‡			0	0	King Rail †			2	2	Common Nighthawk			N	T
Hooded Merganser		FY	10	65	Virginia Rail		T	43	95	Whip-poor-will			T	
Common Merganser			20	26	Sora		T	53	73	Chimney Swift			H	P
Red-breast Merganser ‡			2	4	Common Moorhen	H	T	66	60	Ruby-thr Hummingbird			S	NY
Ruddy Duck †			0	4	American Coot			17	12	Belted Kingfisher			AE	CF
Ring-necked Pheasant			20	29	Coot/Moorhen			0	0	<u>Red-headed Woodpecker</u> †	H			
Ruffed Grouse	T	NE	92	92	Sandhill Crane ‡			0	14	Red-bell Woodpecker			H	
Wild Turkey		D	7	95	Killdeer	NE	NE	102	95	Yellow-bellied Sapsucker			S	AE
Northern Bobwhite †			0	2	Rock Dove	FY	NY	100	95	Downy Woodpecker			NY	
<u>Common Loon</u>			51	53	Spotted Sandpiper	NE	DD	92	95	Hairy Woodpecker			NY	CF
Pied-billed Grebe		FY	23	51	<u>Upland Sandpiper</u>			48	51	Black-backed Woodpecker ‡				
Double-crest Cormorant §			17	21	Common Snipe	NE	T	82	80	Northern Flicker			AE	AE
American Bittern	S	T	66	70	American Woodcock		T	76	95	Pileated Woodpecker			S	NY
Least Bittern †			25	41	Ring-billed Gull §			12	12	Olive-sided Flycatcher				
Great Blue Heron §	NY	NY	97	85	Herring Gull §		NE	43	19	Eastern Wood-Pewee			S	T
Great Egret †			0	2	Great Black-backed Gull †			10	7	Alder Flycatcher			S	T

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Ontario Breeding Bird Atlas - Summary Sheet for Square 18TP98 (page 2 of 3)

SPECIES	Code		%		SPECIES	Code		%		SPECIES	Code	
	1st	2nd	1st	2nd		1st	2nd	1st	2nd		1st	2nd
Willow Flycatcher	A	T	66	92	Marsh Wren	T	T	48	68	Prairie Warbler †		
Least Flycatcher	T	T	100	92	Golden-crown Kinglet			10	31	Cerulean Warbler †		
Eastern Phoebe	AE	NY	100	95	Ruby-crown Kinglet ‡			5	2	Black-white Warbler	S	FS
Gr Crested Flycatcher	V	NY	100	97	Blue-gr Gnatcatcher	P		33	31	American Redstart	T	T
Eastern Kingbird	D	FY	102	95	Eastern Bluebird	CF		58	92	Ovenbird	S	CF
Loggerhead Shrike †			12	4	Veery	S	T	97	90	North Waterthrush	S	FS
Yellow-throated Vireo			20	14	<u>Hermit Thrush</u>			2	51	Mourning Warbler		T
Blue-headed Vireo			2	48	Wood Thrush	S	A	100	92	Common Yellowthroat	D	DD
Warbling Vireo	T	NU	97	95	American Robin	NE	NY	100	100	Hooded Warbler †		
Philadelphia Vireo ‡			0	9	Gray Catbird	P	CF	100	95	<u>Canada Warbler</u>		
Red-eyed Vireo	S	NU	100	97	Northern Mockingbird		NY	20	36	Eastern Towhee	S	CF
Blue Jay	NY	FY	100	100	Brown Thrasher	S	NE	100	95	Chipping Sparrow	CF	NY
American Crow	FY	NY	100	97	European Starling	NY	NY	102	95	Clay-colored Sparrow		
Common Raven		H	0	60	Cedar Waxwing	N	FY	100	97	Field Sparrow	S	FY
Horned Lark	T	T	84	82	Blue-winged Warbler ‡			2	36	Vesper Sparrow	S	T
Purple Martin	CF	NY	79	70	Golden-winged Warbler		S	23	36	Savannah Sparrow	FY	NE
Tree Swallow	CF	NY	102	95	Blue/Gold-wing Warbler			0	9	Grasshopper Sparrow		CF
North Rgh-wing Swallow	P	FY	94	87	Brewster's Warbler †			0	12	Henslow's Sparrow †		
Bank Swallow §	CF	NY	94	90	Nashville Warbler	S	T	61	80	Song Sparrow	CF	FY
Cliff Swallow §	AE	NY	79	85	Northern Parula ‡			0	7	Lincoln's Sparrow ‡		
Barn Swallow	CF	NY	100	95	Yellow Warbler	NE	NE	102	95	Swamp Sparrow	A	CF
Black-capped Chickadee	CF	NY	100	95	Chestn-sided Warbler	S	CF	87	95	White-throat Sparrow	S	P
Red-breast Nuthatch		T	30	80	Magnolia Warbler		T	7	53	Dark-eyed Junco ‡		
White-breast Nuthatch		FY	87	95	Cape May Warbler ‡			2	0	Scarlet Tanager	T	T
Brown Creeper		AE	48	70	Black-thr Blue Warbler			0	36	Northern Cardinal	T	CF
Carolina Wren ‡			0	12	Yellow-rumped Warbler		T	23	63	Rose-breast Grosbeak	T	NY
House Wren	N	NY	100	95	Black-thr Green Warbler	S	T	38	85	Indigo Bunting	T	T
Winter Wren		T	51	78	<u>Blackburnian Warbler</u>			28	51	Bobolink	D	FY
Sedge Wren			7	17	Pine Warbler		CF	30	87	Red-wing Blackbird	CF	FY

[<< previous page](#)

Ontario Breeding Bird Atlas - Summary Sheet for Square 18TP98 (page 3 of 3)

SPECIES	Code		%	
	1st	2nd	1st	2nd
Eastern Meadowlark	N	NB	100	95
Western Meadowlark ‡			2	0
Common Grackle	NY	NY	100	95
Brown-head Cowbird	FY	FY	100	95
Orchard Oriole		H	10	34
Baltimore Oriole	CF	CF	100	95
Pine Grosbeak ‡			0	0
Purple Finch		S	43	87
House Finch	A	NY	17	95
Red Crossbill			7	12
White-winged Crossbill ‡			2	12
Pine Siskin			33	24
American Goldfinch	CF	AE	100	97
Evening Grosbeak ‡			2	12
House Sparrow	NY	NY	100	95

This list includes all species found during the Ontario Breeding Bird Atlas (1st atlas: 1981-1985, 2nd atlas: 2001-2005) in the region #17 (Northumberland). Underlined species are those that you should try to add to this square. They have not yet been reported during the 2nd atlas, but were found during the 1st atlas in this square or have been reported in more than 50% of the squares in this region during the 2nd atlas so far. In the species table, "BE 2nd" and "BE 1st" are the codes for the highest breeding index for that species in square 18TP98 during the 2nd and 1st atlas respectively. The % columns give the percentage of squares in that region where that species was recorded during the 2nd and 1st atlas (this gives an idea of the expected chance of finding that species in region #17). Rare/Colonial Species Report Forms should be completed for species marked: § (Colonial), ‡ (regionally rare), or † (provincially rare). Current as of 30/06/2022. An up-to-date version of this sheet is available from <http://www.birdsontario.org/atlas/summaryform.jsp?squareID=18TP98>

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Appendix B. Stage 1 Archaeological Assessment Report

Stage 1 Archaeological Assessment Trenton Trunk Sanitary Sewer Project (Part of Lot 1 to 8, Concession A, Part of Lot 1 and 2, Concession 1, Murray Township, County of Northumberland) City of Quinte West

Original Report

Prepared for:

Jacobs Consultancy Canada Inc.

245 Consumers Road, Suite 400
Toronto, Ontario, M2J 1R3

Archaeological Licence: P383 (Williams)

PIF P383-0344-2022

Archaeological Services Inc. File: 22EA-040

19 December 2022



Executive Summary

Archaeological Services Inc. was contracted by Jacobs to conduct a Stage 1 Archaeological Assessment (Background Research and Property Inspection) as part of the Trenton Trunk Sanitary Sewer project. This project involves installing a sewer that is approximately 6.1 kilometres in length.

The Stage 1 scope encompasses three proposed sewer routes located south of Highway 2, on land east and west of 2nd Dug Hill Road in an area north of Carrying Place Road.

The Stage 1 background study determined that there are no previously registered archaeological sites located within one kilometre of the Study Area. The property inspection determined that parts of Proposed Sewer Alternative A and parts of Proposed Sewer Alternative B exhibit archaeological potential and will require further archaeological assessment.

The following recommendations are made:

- 1) Parts of Sewer Alternative A, Alternative B, and Alternative C exhibit archaeological potential. These lands require Stage 2 archaeological assessment by test pit and pedestrian survey at five metre intervals, where appropriate. Stage 2 is required prior to any proposed construction activities on these lands;
- 2) Parts of Sewer Alternative A, Alternative B and Alternative C do not retain archaeological potential on account of deep and extensive land disturbance and low and wet conditions. These lands do not require further archaeological assessment; and,
- 3) Should the proposed work extend beyond the current Study Area, further archaeological assessment should be conducted to determine the archaeological potential of the surrounding lands.



Project Personnel

- **Senior Project Manager:** Lisa Merritt, MSc. (P094) Partner, Director, Environmental Assessment Division
- **Project Manager:** Sarah Jagelewski, BA Hons. (R405), Lead Archaeologist, Manager, Environmental Assessment Division;
- **Project Director:** Blake Williams, MLitt (P383), Lead Archaeologist, Project Manager, Environmental Assessment Division
- **Division Coordinator:** Katrina Thach, BA Hons. (R1225), Associate Archaeologist, Division Coordinator, Environmental Assessment Division
- **Project Administrator:** Catherine Kitchen, BA, Archaeologist, Project Administrator, Environmental Assessment Division
- **Field Director:** Laura Burke, BA Hons. (R1113), Associate Archaeologist, Technical Writer and Researcher, Environmental Assessment Division;
- **Report Preparation:** Laura Burke
- **Graphics:** Robin Latour, MPhil, PDip, Associate Archaeologist, Geomatics Specialist, Operations Division; Carolyn Nettleton, BA, Archaeologist, GIS Technician, Operation Division
- **Report Review:** Eliza Brandy, Lisa Merritt



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1.0 Project Context

Archaeological Services Inc. (ASI) was contracted by Jacobs to conduct a Stage 1 Archaeological Assessment (Background Research and Property Inspection) as part of the Trenton Trunk Sanitary Sewer project in the City of Quinte West. This project involves installing a sewer that is approximately 6.1 kilometres in length.

The Stage 1 scope encompasses three proposed sewer routes located south of Highway 2, on land east and west of 2nd Dug Hill Road in an area north of Carrying Place Road (Figure 1). Proposed Sewer Alternative A, B and C each have a five-metre buffer.

Proposed Sewer Alternative A begins at the 2nd Dug Hill Road and Highway 2 intersection and extends west along Highway 2 until it cuts south through an active agricultural field. Alternative A is then redirected east just north of Cedar Park Crescent, crosses 2nd Dug Hill Road and travels through residential neighbourhood streets until it is redirected south of Parkview Heights. It then extends further east and then straight south through greenspace and through portions of several Hanna Park Trails. Alternative A then meets the abandoned rail line which travels east and crosses Dufferin Avenue. The abandoned rail line and Alternative A connect with the Millennium Trail along the north shore of the Bay of Quinte. Alternative A then curves through greenspace and travels east within the Creswell Drive right-of-way until it veers right across the parking lot in front of Quinte West City Hall, across the grass at the Fraser Park cenotaph, and ends at the Fraser Park Marina.

Proposed Sewer Alternative B begins at the intersection of Cedar Park Crescent and 2nd Dug Hill Drive and extends south along 2nd Dug Hill Drive until it cuts east along a City of Quinte West owned trail north of 173 2nd Dug Hill Road. Alternative B then travels northeast in a straight line until it connects with Proposed Sewer Alternative A in the greenspace south of Parkview Heights.

Proposed Sewer Alternative C begins on 2nd Dug Hill Drive where Proposed Sewer Alternative B is redirected east along the city trail. Proposed Sewer Alternative C extends south along 2nd Dug Hill Drive until it connects with the abandoned rail line. It then follows the abandon rail line northeast where it



connects with Proposed Sewer Alternative A along the same abandoned train track.

All activities carried out during this assessment were completed in accordance with the *Ontario Heritage Act* (Ontario Heritage Act, R.S.O. c. O.18, 1990, as amended in 2019) and the 2011 *Standards and Guidelines for Consultant Archaeologists* (S & G), administered by the Ministry of Tourism, Culture and Sport (MTCS 2011).

1.1 Development Context

All work has been undertaken as required by the *Environmental Assessment Act*, RSO (Environmental Assessment Act, R.S.O., 1990 as amended 2020) and regulations made under the Act, and are therefore subject to all associated legislation.

This project is being conducted in accordance with the Municipal Engineers' Association document *Municipal Class Environmental Assessment* (Municipal Class Environmental Assessment, 2000, as amended 2015).

Authorization to carry out the activities necessary for the completion of the Stage 1 archaeological assessment and property inspection was granted by Jacobs on August 12, 2022.

1.1.1 Treaties

The Study Area is within the Crawford's Purchase and Williams Treaties.

The Crawford's Purchases of 1783 and 1784 are controversial agreements between the Crown and the Mississauga for land along the north shore of Eastern Lake Ontario and the St. Lawrence River from the Trent River to Jones Creek near Brockville, including Prince Edward County (Ministry of Indigenous Affairs, 2020). The purchase was designed to provide land for displaced Loyalists who fought for the British during the American Revolution. As compensation for the loss of homelands south of Lake Ontario and for their allegiance to Britain, the Crown granted the Haudenosaunee lands along the north shore of the lake.



These lands have been reduced over the years and it is now known as Tyendinaga Mohawk Territory (Boileau, 2020).

Superintendent General of Indian Affairs Sir John Johnson assigned Captain William Redford Crawford to conduct the negotiations. Chief Mynass, a Mississauga chief living near Kanesatake was among the Indigenous representatives and the British claimed that he had control the lands from the St. Lawrence River to the Ottawa River, which were subsequently ceded to the Crown during the negotiations (Boileau, 2020). No representatives from the Algonquin were present at the negotiations.

On October 9, 1783, Crawford noted he bought “all the lands from the Toniata or Onagara River [Jones Creek near Brockville] to a river [Trent River] in the Bay of Quinte...including all the Islands,” and extending back from the lake “as far as a man can travel in a day” for goods “that all the families belonging to them shall be clothed and that those that have not fusees [flintlock muskets] shall receive new ones, some powder and ball for their winter hunting, as much coarse red cloth as will make about a dozen coats and as many laced hats” (Boileau, 2020). This was not a formal treaty, and no surviving copies to a deed for transfer exist. Ongoing British obligations characteristic of a treaty such as annual payments or gifts were not included in this agreement (Boileau, 2020).

To clarify this, in October and November of 1923, the governments of Canada and Ontario, chaired by A.S. Williams, signed treaties with the Chippewa and Michi Saagiig for three large tracts of land in central Ontario and the northern shore of Lake Ontario, the last substantial portion of land in southern Ontario that had not yet been ceded to the government (Crown-Indigenous Relations and Northern Affairs, 2013).

In 2018 the Government of Canada reached a settlement with the Williams Treaties First Nations reaffirming the recognized Treaty harvesting rights in the Williams Treaties territories of each of the seven nations.



1.2 Historical Context

1.2.1 Indigenous Land Use and Settlement

Southern Ontario has been occupied by human populations since the retreat of the Laurentide glacier approximately 13,000 years before present (B.P.) (Ferris, 2013). Populations at this time would have been highly mobile, inhabiting a boreal-parkland similar to the modern sub-arctic. By approximately 10,000 B.P., the environment had progressively warmed (Edwards & Fritz, 1988) and populations now occupied less extensive territories (Ellis & Deller, 1990).

Between approximately 10,000-5,500 B.P., the Great Lakes basins experienced low-water levels, and many sites which would have been located on those former shorelines are now submerged. This period produces the earliest evidence of heavy wood working tools, an indication of greater investment of labour in felling trees for fuel, to build shelter, and watercraft production. These activities suggest prolonged seasonal residency at occupation sites. Polished stone and native copper implements were being produced by approximately 8,000 B.P.; the latter was acquired from the north shore of Lake Superior, evidence of extensive exchange networks throughout the Great Lakes region. The earliest evidence for cemeteries dates to approximately 4,500-3,000 B.P. and is indicative of increased social organization, investment of labour into social infrastructure, and the establishment of socially prescribed territories (Brown, 1995, p. 13; Ellis et al., 1990, 2009).

Between 3,000-2,500 B.P., populations continued to practice residential mobility and to harvest seasonally available resources, including spawning fish. The Woodland period begins around 2,500 B.P. and exchange and interaction networks broaden at this time (Spence et al., 1990, pp. 136, 138) and by approximately 2,000 B.P., evidence exists for small community camps, focusing on the seasonal harvesting of resources (Spence et al., 1990, pp. 155, 164). By 1,500 B.P. there is macro botanical evidence for maize in southern Ontario, and it is thought that maize only supplemented people's diet. There is earlier phytolithic evidence for maize in central New York State by 2,300 B.P. – it is likely that once similar analyses are conducted on Ontario ceramic vessels of the



same period, the same evidence will be found (Birch & Williamson, 2013, pp. 13–15). As is evident in detailed Anishinaabek ethnographies, winter was a period during which some families would depart from the larger group as it was easier to sustain smaller populations (Rogers, 1962). It is generally understood that these populations were Algonquian-speakers during these millennia of settlement and land use.

From the beginning of the Late Woodland period at approximately 1,000 B.P., lifeways became more similar to that described in early historical documents. Between approximately 1000-1300 Common Era (C.E.), the communal site is replaced by the village focused on horticulture. Seasonal disintegration of the community for the exploitation of a wider territory and more varied resource base was still practised (Williamson, 1990, p. 317). By 1300-1450 C.E., this episodic community disintegration was no longer practised and populations now communally occupied sites throughout the year (Dodd et al., 1990, p. 343). By the mid-sixteenth century these small villages had coalesced into larger communities (Birch et al., 2021). Through this process, the socio-political organization of the First Nations, as described historically by the French and English explorers who first visited southern Ontario, was developed.

By 1600 C.E., the communities within Simcoe County had formed the Confederation of Nations encountered by the first European explorers and missionaries. In the 1640s, the traditional enmity between the Haudenosaunee and the Huron-Wendat (and their Algonquian allies such as the Nipissing and Odawa) led to the dispersal of the Huron-Wendat. Shortly afterwards, the Haudenosaunee established a series of settlements at strategic locations along the trade routes inland from the north shore of Lake Ontario. By the 1690s however, the Anishinaabeg were the only communities with a permanent presence in southern Ontario. From the beginning of the eighteenth century to the assertion of British sovereignty in 1763, there was no interruption to Anishinaabeg control and use of southern Ontario.



Oral Histories

Oral histories from Indigenous communities are primary sources that can hold important historical information and their inclusion can provide an indigenous perspective to archaeological assessment reports.

The following oral history is provided by Curve Lake First Nation.

Curve Lake First Nation

This detailed Michi Saagiig oral history by Gitiga Migizi from 2017, a respected Elder and Knowledge Keeper of the Michi Saagiig Nation, was provided to ASI by Dr. Julie Kapyrka on behalf of Curve Lake First Nation for inclusion in this report:

“The traditional homelands of the Michi Saagiig (Mississauga Anishinaabeg) encompass a vast area of what is now known as southern Ontario. The Michi Saagiig are known as “the people of the big river mouths” and were also known as the “Salmon People” who occupied and fished the north shore of Lake Ontario where the various tributaries emptied into the lake. Their territories extended north into and beyond the Kawarthas as winter hunting grounds on which they would break off into smaller social groups for the season, hunting and trapping on these lands, then returning to the lakeshore in spring for the summer months.

The Michi Saagiig were a highly mobile people, travelling vast distances to procure subsistence for their people. They were also known as the “Peacekeepers” among Indigenous nations. The Michi Saagiig homelands were located directly between two very powerful Confederacies: The Three Fires Confederacy to the north and the Haudenosaunee Confederacy to the south. The Michi Saagiig were the negotiators, the messengers, the diplomats, and they successfully mediated peace throughout this area of Ontario for countless generations.

Michi Saagiig oral histories speak to their people being in this area of Ontario for thousands of years. These stories recount the “Old Ones” who spoke an ancient Algonquian dialect. The histories explain that the current Ojibwa phonology is the 5th transformation of this language,



demonstrating a linguistic connection that spans back into deep time. The Michi Saagiig of today are the descendants of the ancient peoples who lived in Ontario during the Archaic and Paleo-Indian periods. They are the original inhabitants of southern Ontario, and they are still here today.

The traditional territories of the Michi Saagiig span from Gananoque in the east, all along the north shore of Lake Ontario, west to the north shore of Lake Erie at Long Point. The territory spreads as far north as the tributaries that flow into these lakes, from Bancroft and north of the Haliburton highlands. This also includes all the tributaries that flow from the height of land north of Toronto like the Oak Ridges Moraine, and all of the rivers that flow into Lake Ontario (the Rideau, the Salmon, the Ganaraska, the Moira, the Trent, the Don, the Rouge, the Etobicoke, the Humber, and the Credit, as well as Wilmot and 16 Mile Creeks) through Burlington Bay and the Niagara region including the Welland and Niagara Rivers, and beyond. The western side of the Michi Saagiig Nation was located around the Grand River which was used as a portage route as the Niagara portage was too dangerous. The Michi Saagiig would portage from present-day Burlington to the Grand River and travel south to the open water on Lake Erie.

Michi Saagiig oral histories also speak to the occurrence of people coming into their territories sometime between 500-1000 A.D. seeking to establish villages and a corn growing economy – these newcomers included peoples that would later be known as the Huron-Wendat, Neutral, Petun/Tobacco Nations. The Michi Saagiig made Treaties with these newcomers and granted them permission to stay with the understanding that they were visitors in these lands. Wampum was made to record these contracts, ceremonies would have bound each nation to their respective responsibilities within the political relationship, and these contracts would have been renewed annually (see Migizi & Kapyrka, 2015). These visitors were extremely successful as their corn economy grew as well as their populations. However, it was understood by all nations involved that this area of Ontario were the homeland territories of the Michi Saagiig.



The Odawa Nation worked with the Michi Saagiig to meet with the Huron-Wendat, the Petun, and Neutral Nations to continue the amicable political and economic relationship that existed – a symbiotic relationship that was mainly policed and enforced by the Odawa people.

Problems arose for the Michi Saagiig in the 1600s when the European way of life was introduced into southern Ontario. Also, around the same time, the Haudenosaunee were given firearms by the colonial governments in New York and Albany which ultimately made an expansion possible for them into Michi Saagiig territories. There began skirmishes with the various nations living in Ontario at the time. The Haudenosaunee engaged in fighting with the Huron-Wendat and between that and the onslaught of European diseases, the Iroquoian speaking peoples in Ontario were decimated.

The onset of colonial settlement and missionary involvement severely disrupted the original relationships between these Indigenous nations. Disease and warfare had a devastating impact upon the Indigenous peoples of Ontario, especially the large sedentary villages, which mostly included Iroquoian speaking peoples. The Michi Saagiig were largely able to avoid the devastation caused by these processes by retreating to their wintering grounds to the north, essentially waiting for the smoke to clear. Michi Saagiig Elder Gitiga Migizi (2017) recounts:

“We weren’t affected as much as the larger villages because we learned to paddle away for several years until everything settled down. And we came back and tried to bury the bones of the Huron but it was overwhelming, it was all over, there were bones all over – that is our story.

There is a misnomer here, that this area of Ontario is not our traditional territory and that we came in here after the Huron-Wendat left or were defeated, but that is not true. That is a big misconception of our history that needs to be corrected. We are the traditional people, we are the ones that signed treaties with the Crown. We are recognized as the ones who signed these



treaties and we are the ones to be dealt with officially in any matters concerning territory in southern Ontario.

We had peacemakers go to the Haudenosaunee and live amongst them in order to change their ways. We had also diplomatically dealt with some of the strong chiefs to the north and tried to make peace as much as possible. So we are very important in terms of keeping the balance of relationships in harmony.

Some of the old leaders recognized that it became increasingly difficult to keep the peace after the Europeans introduced guns. But we still continued to meet, and we still continued to have some wampum, which doesn't mean we negated our territory or gave up our territory – we did not do that. We still consider ourselves a sovereign nation despite legal challenges against that. We still view ourselves as a nation and the government must negotiate from that basis.”

Often times, southern Ontario is described as being “vacant” after the dispersal of the Huron-Wendat peoples in 1649 (who fled east to Quebec and south to the United States). This is misleading as these territories remained the homelands of the Michi Saagiig Nation.

The Michi Saagiig participated in eighteen treaties from 1781 to 1923 to allow the growing number of European settlers to establish in Ontario. Pressures from increased settlement forced the Michi Saagiig to slowly move into small family groups around the present-day communities: Curve Lake First Nation, Hiawatha First Nation, Alderville First Nation, Scugog Island First Nation, New Credit First Nation, and Mississauga First Nation.

The Michi Saagiig have been in Ontario for thousands of years, and they remain here to this day.”



1.2.2 Post-Contact Settlement

Historically, the Study Area is located in the Geographical Murray Township, County of Northumberland in Lots 1 to 2 in Concession 1 and in Lots 1 to 8 in Concession A.

The S & G stipulates that areas of early Euro-Canadian settlement (pioneer homesteads, isolated cabins, farmstead complexes), early wharf or dock complexes, pioneer churches, and early cemeteries are considered to have archaeological potential. Early historical transportation routes (trails, passes, roads, railways, portage routes), properties listed on a municipal register or designated under the Ontario Heritage Act or a federal, provincial, or municipal historic landmark or site are also considered to have archaeological potential.

For the Euro-Canadian period, the majority of early nineteenth century farmsteads (i.e., those that are arguably the most potentially significant resources and whose locations are rarely recorded on nineteenth century maps) are likely to be located in proximity to water. The development of the network of concession roads and railroads through the course of the nineteenth century frequently influenced the siting of farmsteads and businesses. Accordingly, undisturbed lands within 100 metres of an early settlement road are also considered to have potential for the presence of Euro-Canadian archaeological sites.

The first Europeans to arrive in the area were transient merchants and traders from France and England, who followed Indigenous pathways and set up trading posts at strategic locations along the well-traveled river routes. All of these occupations occurred at sites that afforded both natural landfalls and convenient access, by means of the various waterways and overland trails, into the hinterlands. Early transportation routes followed existing Indigenous trails, both along the lakeshore and adjacent to various creeks and rivers (ASI 2006).

Murray Township

Murray Township was first surveyed in 1791 and then again in 1796. It was named after James Murray, a distinguished British soldier who took part in the



siege of Quebec in 1759 and became Governor of Quebec in 1760. The township was settled early by United Empire Loyalists. Among those who received grants along the broken front were Hugh McQuaid, Captain Bullock, Thomas Potts, Thomas Smith, Rolph Bell, Asa Weller and many others. Asa Weller opened a tavern at Carrying Place and also kept a sled and oxen to convey passengers up the lake shore. Once heavily wooded with pine and other hardwood, the township today is primarily a farming district with excellent pasture for dairy herds (Mika & Mika, 1981, p. 704).

Trenton

Trenton was incorporated as a village in 1853, a town in 1880, and then as a city on July 1, 1980.

The first settlers arrived at the mouth of the Trent River in the 1790s. Known as the gateway to the Trent-Severn Waterway, the site was first called Trent Port, then Trentown, and finally Trenton. The area had a prominent lumber industry due to the canal development. The largest sawmill was owned by the Gilmour Company. This plant, after many years of prosperity, burned to the ground in 1910. During World War I the major industry was the munitions plant of the British Chemical Company, which was levelled by explosions in 1918. An attempt was made to turn the town into a film production centre in the 1920s, but only a handful of films were ever produced. Trenton was chosen as the centre for the Royal Canadian Air Force and functioned in World War II as a training base for Commonwealth pilots. On January 1, 1998, it became a part of the new city of Quinte West (Stortz, 2015).

Trent-Severn Waterway

Planning of the Trent-Severn Waterway began as early as 1785, initially as a means of transporting commercial and military goods between Lake Ontario into the Upper Great Lakes while avoiding the border with the United States as a safeguard during periods of hostility. Construction began with a lock at Bobcaygeon in 1833. Construction continued intermittently depending on the federal governments in power, and as popular support and funding allowed. The entire 387 kilometre route between the outlet of the Trent River in Trenton on



Lake Ontario, and Port Severn in Georgian Bay (Lake Huron) was completed in 1920 (Libraries and Archives Canada 2005; Legget 2015; Parks Canada 2017).

The waterway predominantly follows a series of natural lakes and rivers, supplemented by artificial canals, passing generally northwest from Lake Ontario through the Trent River, Rice Lake, Otonabee River, the Kawartha Lakes, Lake Simcoe, Lake Couchiching, Severn River, and into Georgian Bay. The waterway is accessed by a total of 44 locks, 75 control dams, 15 swing bridges, and two marine railways at Big Chute. While originally conceived as a commercial and military transportation route, the waterway primarily serves recreational boaters (Libraries and Archives Canada 2005; Legget 2015; Parks Canada 2017).

Canadian Northern Railway and the Millennium Trail

The Canadian Northern Railway was a relatively short-lived transcontinental railway in Canada. It had a total of 16,093 kilometres of track from Quebec to British Columbia and owned separate rail lines in Nova Scotia. The similarity between Canadian Northern and Canadian National was no coincidence, as Canadian National came as a result of the nationalization of Canadian Northern in 1918. It formally merged with the Canadian Government Railways in 1923. A fair number of the rail lines Canadian National uses today were originally built by Canadian Northern (Peltenburg, 2020).

In 1993, Quinte West began the process of regenerating Trent Riverfront and developed the abandoned railway lines into the multi-purpose recreational Millennium Trail it is today (Great Lakes Waterfront Trail, 2018).

1.2.3 Map Review

The 1878 *Illustrated Historical Atlas of the Counties of Northumberland and Durham, Ontario* (Belden, 1878) and 1932 and 1963 topographic maps (Department of Energy, Mines and Resources, 1963; Department of National Defence, 1932) were examined to determine the presence of historic features within the Study Area during the nineteenth and twentieth centuries (Figures 2-4).



The 1878 map shows no historic buildings or structures within the Study Area. Three buildings are denoted adjacent to the Study Area in the northwest portion. This map also shows that what is now named Highway 2 and 2nd Dug Hill Road are early historic transportation routes.

The 1932 topographic map shows that the southern part of the Study Area follows the former path of the Canadian Northern Railway. On this map Hanna Park is identified south of Highway 2 and north of the rail lines. There are many buildings visible on the north and south sides of Highway 2, only three are directly adjacent to the Study Area. The most northeast branch of the Study Area ends within the planned streets of Trenton.

The 1963 topographic map has “Abandoned” written above the railway line. Dugout tributary is drawn flowing in a northwest to southeast direction. It meanders through several parts of the Study Area. A darker, jagged line divides the Study Area. The majority of the eastern part of the Study Area is within the Trenton limits while the west and southwest parts are just outside of Trenton.

1.2.4 Aerial and Orthoimagery Review

Historical aerial imagery from 1954 (Hunting Survey Corporation Limited, 1954) indicates the portion of the Study Area outside Trenton is primarily within a rural and agricultural context. The railway line is visible along the most southern portions of Proposed Sewer Alternative C and Proposed Sewer Alternative A. The jagged line indicating what Trenton’s limits were in 1954 are clearly seen. The most northeast branch of the Study Area ends at the Trenton canal where Fraser Park Marina is today.

A review of available Google satellite imagery shows:

- In 2015 residential housing was constructed on the north and south side of Crews Crescent
- In 2016 and 2020 grading was conducted within the Study Area on the north and south side of Cedar Park Crescent



1.3 Archaeological Context

This section provides background research pertaining to previous archaeological fieldwork conducted within and in the vicinity of the Study Area, its environmental characteristics (including drainage, soils or surficial geology and topography, etc.), and current land use and field conditions. Three sources of information were consulted to provide information about previous archaeological research: the site record forms for registered sites available online from the MTCS through “Ontario’s Past Portal”; published and unpublished documentary sources; and the files of ASI.

1.3.1 Geography

In addition to the known archaeological sites, the state of the natural environment is a helpful indicator of archaeological potential. Accordingly, a description of the physiography and soils are briefly discussed for the Study Area.

The S & G stipulates that primary water sources (lakes, rivers, streams, creeks, etc.), secondary water sources (intermittent streams and creeks, springs, marshes, swamps, etc.), ancient water sources (glacial lake shorelines indicated by the presence of raised sand or gravel beach ridges, relic river or stream channels indicated by clear dip or swale in the topography, shorelines of drained lakes or marshes, cobble beaches, etc.), as well as accessible or inaccessible shorelines (high bluffs, swamp or marsh fields by the edge of a lake, sandbars stretching into marsh, etc.) are characteristics that indicate archaeological potential.

Water has been identified as the major determinant of site selection and the presence of potable water is the single most important resource necessary for any extended human occupation or settlement. Since water sources have remained relatively stable in Ontario since 5,000 B.P. (Karrow & Warner, 1990, fig. 2.16), proximity to water can be regarded as a useful index for the evaluation of archaeological site potential. Indeed, distance from water has been one of the most commonly used variables for predictive modeling of site location.



Other geographic characteristics that can indicate archaeological potential include elevated topography (eskers, drumlins, large knolls, and plateaux), pockets of well-drained sandy soil, especially near areas of heavy soil or rocky ground, distinctive land formations that might have been special or spiritual places, such as waterfalls, rock outcrops, caverns, mounds, and promontories and their bases. There may be physical indicators of their use, such as burials, structures, offerings, rock paintings or carvings. Resource areas, including; food or medicinal plants (migratory routes, spawning areas) are also considered characteristics that indicate archaeological potential (S & G, Section 1.3.1).

The Iroquois Plain physiographic region of southern Ontario is a lowland region bordering Lake Ontario. This region is characteristically flat and formed by lacustrine deposits laid down by the inundation of Lake Iroquois, a body of water that existed during the late Pleistocene. This region extends from the Trent River, around the western part of Lake Ontario, to the Niagara River, spanning a distance of 300 kilometres (Chapman and Putnam 1984:190). The old shorelines of Lake Iroquois include cliffs, bars, beaches and boulder pavements. The old sandbars in this region are good aquifers that supply water to farms and villages. The gravel bars are quarried for road and building material, while the clays of the old lakebed have been used for the manufacture of bricks (Chapman and Putnam 1984:196).

The surficial geology of the Study Area consists of pockets of massive well laminated, stone poor carbonate derived silty to sandy till, Paleozoic bedrock and littoral foreshore deposits (Figure 6).

There are many different soils within the Study Area:

- Matson; a silt loam with imperfect drainage
- Smithfield; a silt loam and clay with imperfect drainage
- Simcoe; a silt loam and clay with poor drainage
- Schomberg; a silt loam and clay with good drainage
- Farmington; loam till over bedrock with good drainage
- Muck; organic deposits with very poor drainage
- Bondhead; loam and sandy loam till with good drainage



- Guerin; loam and sandy loam till with imperfect drainage
- Lyons; loam and sandy loam till with poor drainage
- Colborne; medium and fine sand over gravel with good drainage

Drainage within the Study Area ranges from very poor to rapidly drained (Figure 7).

The Study Area includes tributaries of Dead Creek and is located along the west bank of the Lower Trent River and adjacent to the shore of Lake Ontario. The Lower Trent watershed region includes the furthest downstream section of the Trent River watershed, encompassing 2,070 square kilometres. It includes the Trent River, which flows out of Rice Lake to the Bay of Quinte at Trenton, and the watersheds of eight main tributaries. The watershed region also includes a number of smaller watercourses that flow directly into Lake Ontario and the Bay of Quinte from Grafton to Quinte West. The Trent River watershed contains all of the land drained by the Trent River and is the largest watershed located entirely in southern Ontario with its headwaters beginning in Algonquin Provincial Park (Lower Trent Conservation, 2018).

1.3.2 Previously Registered Archaeological Sites

In Ontario, information concerning archaeological sites is stored in the Ontario Archaeological Sites Database maintained by the MTCS. This database contains archaeological sites registered within the Borden system. Under the Borden system, Canada has been divided into grid blocks based on latitude and longitude. A Borden block is approximately 13 kilometres east to west, and approximately 18.5 kilometres north to south. Each Borden block is referenced by a four-letter designator, and sites within a block are numbered sequentially as they are found. The Study Area under review is located in Borden block *BaGj*.

According to the Ontario Archaeological Sites Database, there are no previously registered archaeological sites located within one kilometre of the Study Area. (MHTSCI 2022).



1.3.3 Previous Archaeological Assessments

According to background research there are no previous archaeological assessments located within boundaries of the Trenton Trunk Sanitary Sewer Study Area.

2.0 Property Inspection

2.1 Field Methods

A Stage 1 property inspection must adhere to the S & G, Section 1.2, Standards 1-6, which are discussed below. The entire property and its periphery must be inspected. The inspection may be either systematic or random. Coverage must be sufficient to identify the presence or absence of any features of archaeological potential. The inspection must be conducted when weather conditions permit good visibility of land features. Natural landforms and watercourses are to be confirmed if previously identified. Additional features such as elevated topography, relic water channels, glacial shorelines, well-drained soils within heavy soils and slightly elevated areas within low and wet areas should be identified and documented, if present. Features affecting assessment strategies should be identified and documented such as woodlots, bogs or other permanently wet areas, areas of steeper grade than indicated on topographic mapping, areas of overgrown vegetation, areas of heavy soil, and recent land disturbance such as grading, fill deposits and vegetation clearing. The inspection should also identify and document structures and built features that will affect assessment strategies, such as heritage structures or landscapes, cairns, monuments or plaques, and cemeteries.

The Stage 1 archaeological assessment property inspection was conducted under the field direction of Laura Burke (R1113) of ASI, on September 9th, 2022, in order to gain first-hand knowledge of the geography, topography, and current conditions and to evaluate and map archaeological potential of the Study Area. It was a systematic visual inspection from publicly accessible lands and public right-of-ways only and did not include excavation or collection of archaeological resources. Fieldwork was conducted when weather conditions were deemed



clear with good visibility (sunny with seasonal temperatures), per S & G Section 1.2., Standard 2. Field photography is presented in Section 7.0 (Image 1-20), and field observations are overlaid onto the existing conditions of the Study Area in Section 8.0 (Figure 19-18).

2.2 Current Land Use and Field Conditions

Most of the western portion of the Trenton Trunk Sewer Study Area exists within or near residential neighbourhoods. Proposed Sewer Alternative A travels west of 2nd Dug Hill Road along Highway 2. In this area the north side of the road is a busy commercial area and south of Highway 2 is farmland and open space. There is a very steep slope on the southside of Highway 2. The most northwest portion of Proposed Sewer Alternative A cuts south through an active agricultural field behind Trenton Christian School and Trenton Wesleyan Church. Residential housing is in development along Cedar Park Crescent and Hillside Meadow Drive, and in two locations east of 2nd Dug Hill Road. Land moving activities and grading have resulted in massive berms of soil which are visible from the road. Proposed Sewer Alternative A then extends further east through a modern suburban neighbourhood and then straight south through greenspace and through portions of several Hanna Park Trails. Proposed Sewer Alternative A then meets the abandoned rail line which travels east and crosses Dufferin Avenue. The abandoned rail line and Alternative A connect with the Millennium Trail along the north shore of the Bay of Quinte. The northeast portion of Proposed Sewer Alternative A travels through busy urban streets, parking lots, commercial space, several parks and ends at the Fraser Park Marina.

Proposed Sewer Alternative B travels south through a quiet residential area along 2nd Dug Hill Road. It then redirects east along a city owned trail which is surrounded by greenspace. Proposed Sewer Alternative B ends southwest of Hanna Park and its multiuse recreational trails.

Proposed Sewer Alternative C also travels south along 2nd Dug Hill Road. On the east and west side of the one laned road there is Greenspace and low and wet areas. Proposed Sewer Alternative C redirects east along the overgrown abandoned rail line and ends when it connects with Proposed Sewer Alternative A just north of an industrial business, Canadian Blast Freezers.



3.0 Analysis of Archaeological Potential

The S & G, Section 1.3.1, lists criteria that are indicative of archaeological potential. The Study Area meets the following criteria indicative of archaeological potential:

- Water sources: primary, secondary, or past water source (Lake Ontario, Trent River);
- Well-drained soils (Schomberg, Farmington, Bondhead, Colborne);
- Proximity to early settlements (Trenton);
- Early historic transportation routes (Highway 2 and 2nd Dug Hill Road);

According to the S & G, Section 1.4 Standard 1e, no areas within a property containing locations listed or designated by a municipality can be recommended for exemption from further assessment unless the area can be documented as disturbed. The Quinte West Municipal Heritage Register was consulted and there are no properties within the Study Area Listed or Designated under the *Ontario Heritage Act*.

The property inspection determined that parts of Proposed Sewer Alternative A and Proposed Sewer Alternative B exhibit archaeological potential. These areas will require Stage 2 archaeological assessment prior to any construction activities or other proposed impacts. According to the S & G Section 2.1.1, pedestrian survey is required in actively or recently cultivated fields (Image 4; Figures 9-11: areas highlighted in orange). According to the S & G Section 2.1.2, test pit survey is required on terrain where ploughing is not viable, such as wooded areas, properties where existing landscaping or infrastructure would be damaged, overgrown farmland with heavy brush or rocky pasture, and narrow linear corridors up to 10 metres wide (Image 9; Figure 11, 12, 14, 15, 17: areas highlighted in green).

Parts of Proposed Sewer Alternative A, parts of Proposed Sewer Alternative B and all of Proposed Sewer Alternative C have been subjected to deep soil disturbance events due to municipal utilities, construction processes, grading



prior to the development of roads and residential housing and abandoned railway lines. According to the S & G Section 1.3.2 these areas do not retain archaeological potential (Images 1-3, 5-8, 10-20; Figures 9, 11-18: areas highlighted in yellow) and do not require further survey.

3.1 Conclusions

The Stage 1 background study determined there are no previously registered archaeological sites located within one kilometre of the Study Area. The property inspection determined that parts of Proposed Sewer Alternative A and parts of Proposed Sewer Alternative B exhibit archaeological potential and will require further archaeological assessment (Figures 9-11, 12, 14, 15, 17 areas highlighted in orange and green).

4.0 Recommendations

The following recommendations are made:

- 1) Parts of Sewer Alternative A, Alternative B and Alternative C exhibit archaeological potential. These lands require Stage 2 archaeological assessment by test pit and pedestrian survey at five metre intervals, where appropriate (Figures 9-11, 12, 14, 15, 17). Stage 2 is required prior to any proposed construction activities on these lands;
- 2) Parts of Sewer Alternative A, Alternative B, and Alternative C do not retain archaeological potential on account of deep and extensive land disturbance and low and wet conditions. These lands do not require further archaeological assessment; and,
- 3) Should the proposed work extend beyond the current Study Area, further archaeological assessment should be conducted to determine the archaeological potential of the surrounding lands.

NOTWITHSTANDING the results and recommendations presented in this study, ASI notes that no archaeological assessment, no matter how thorough or carefully completed, can necessarily predict, account for, or identify every form of isolated or deeply buried archaeological deposit. In the event that



archaeological remains are found during subsequent construction activities, the consultant archaeologist, approval authority, and the Archaeology Programs Unit of the Ministry of Tourism, Culture and Sport should be immediately notified.

The above recommendations are subject to Ministry approval, and it is an offence to alter any archaeological site without Ministry of Tourism, Culture and Sport concurrence. No grading or other activities that may result in the destruction or disturbance of any archaeological sites are permitted until notice of MTCS approval has been received.

5.0 Legislation Compliance Advice

ASI advises compliance with the following legislation:

- This report is submitted to the Ministry of Tourism, Culture and Sport as a condition of licensing in accordance with Part VI of the *Ontario Heritage Act*, RSO 2005, c 0.18. The report is reviewed to ensure that it complies with the standards and guidelines that are issued by the Minister, and that the archaeological field work and report recommendations ensure the conservation, preservation, and protection of the cultural heritage of Ontario. When all matters relating to archaeological sites within the project area of a development proposal have been addressed to the satisfaction of the Ministry of Tourism, Culture and Sport, a letter will be issued by the Ministry stating that there are no further concerns with regards to alterations to archaeological sites by the proposed development.
- It is an offence under Sections 48 and 69 of the *Ontario Heritage Act* for any party other than a licensed archaeologist to make any alteration to a known archaeological site or to remove any artifact or other physical evidence of past human use or activity from the site, until such time as a licensed archaeologist has completed archaeological field work on the site, submitted a report to the Minister stating that the site has no further cultural heritage value or interest, and the report has been filed in the Ontario Public Register of Archaeology Reports referred to in Section 65.1 of the *Ontario Heritage Act*.



- Should previously undocumented archaeological resources be discovered, they may be a new archaeological site and therefore subject to Section 48 (1) of the *Ontario Heritage Act*. The proponent or person discovering the archaeological resources must cease alteration of the site immediately and engage a licensed consultant archaeologist to carry out archaeological fieldwork, in compliance with sec. 48 (1) of the *Ontario Heritage Act*.
- The *Funeral, Burial and Cremation Services Act*, 2002, S.O. 2002, c.33, requires that any person discovering or having knowledge of a burial site shall immediately notify the police or coroner. It is recommended that the Registrar of Cemeteries at the Ministry of Consumer Services is also immediately notified.
- Archaeological sites recommended for further archaeological field work or protection remain subject to Section 48(1) of the *Ontario Heritage Act* and may not be altered, nor may artifacts be removed from them, except by a person holding an archaeological license.

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7.0 Images

7.1 Field Photography



Image 1: Highway 2 right-of-way; previously disturbed, no archaeological potential.



Image 2: Highway 2 right-of-way; previously disturbed, no archaeological potential.



Image 3: Highway 2 right-of-way; previously disturbed, no archaeological potential.



Image 4: Agricultural field; archaeological potential, pedestrian survey required.



Image 5: Cedar Park Crescent; previously disturbed, no archaeological potential.



Image 6: 2nd Dug Hill right-of-way; previously disturbed, no archaeological potential.



Image 7: 2nd Dug Hill right-of-way; previously disturbed, no archaeological potential.



Image 8: 2nd Dug Hill right-of-way; previously disturbed, no archaeological potential.



Image 9: Archaeological potential, test pit survey required.



Image 10: 2nd Dug Hill right-of-way; previously disturbed, no archaeological potential.



Image 11: Quinte West industrial lands and abandoned railway line; previously disturbed, no archaeological potential.



Image 12: Modern subdivision; disturbed, no archaeological potential.



Image 13: Sunshine Lane right-of-way; previously disturbed, no archaeological potential.



Image 14: Parkview Heights; previously disturbed, no archaeological potential.



Image 15: Parkview Heights; previously disturbed, no archaeological potential.



Image 16: Quinte West industrial lands and abandoned railway line; previously disturbed, no archaeological potential.



Image 17: Quinte West industrial lands and abandoned railway line; previously disturbed, no archaeological potential.



Image 18: Millennium Trail and abandoned railway line; previously disturbed, no archaeological potential.



Image 19: Millennium Trail; archaeological potential, test pit survey required.



Image 20: Creswell Drive and abandoned railway line; previously disturbed, no archaeological potential.



Image 21: Fraser Park; previously disturbed, no archaeological potential.



Image 22: Fraser Park Marina; previously disturbed, no archaeological potential.

8.0 Maps



Figure 1: Trenton Trunk Sanitary Sewer Study Area



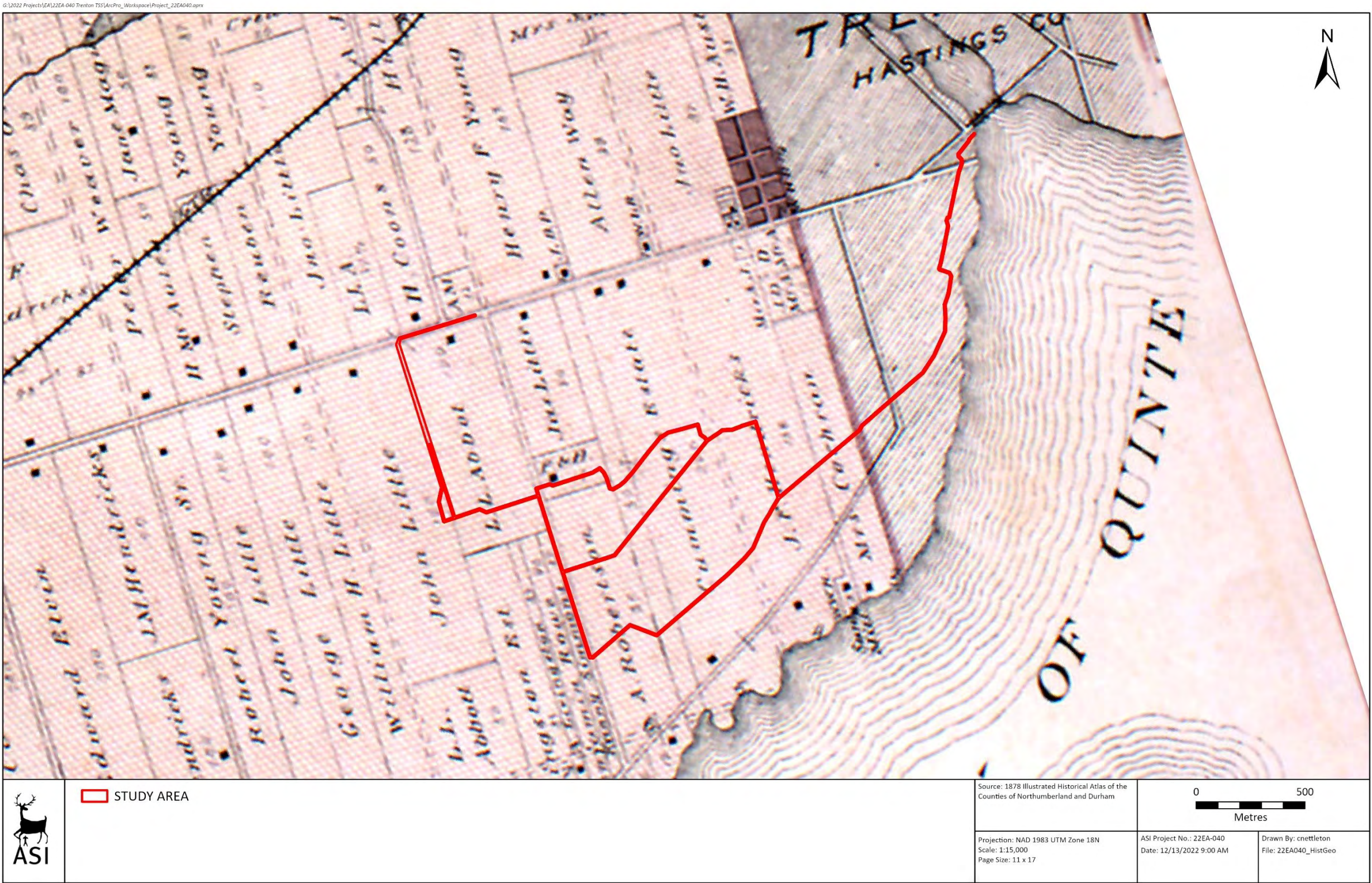


Figure 2: Study Area (Approximate Location) overlaid on the 1878 Illustrated Historical Atlas of the Counties of Northumberland and Durham



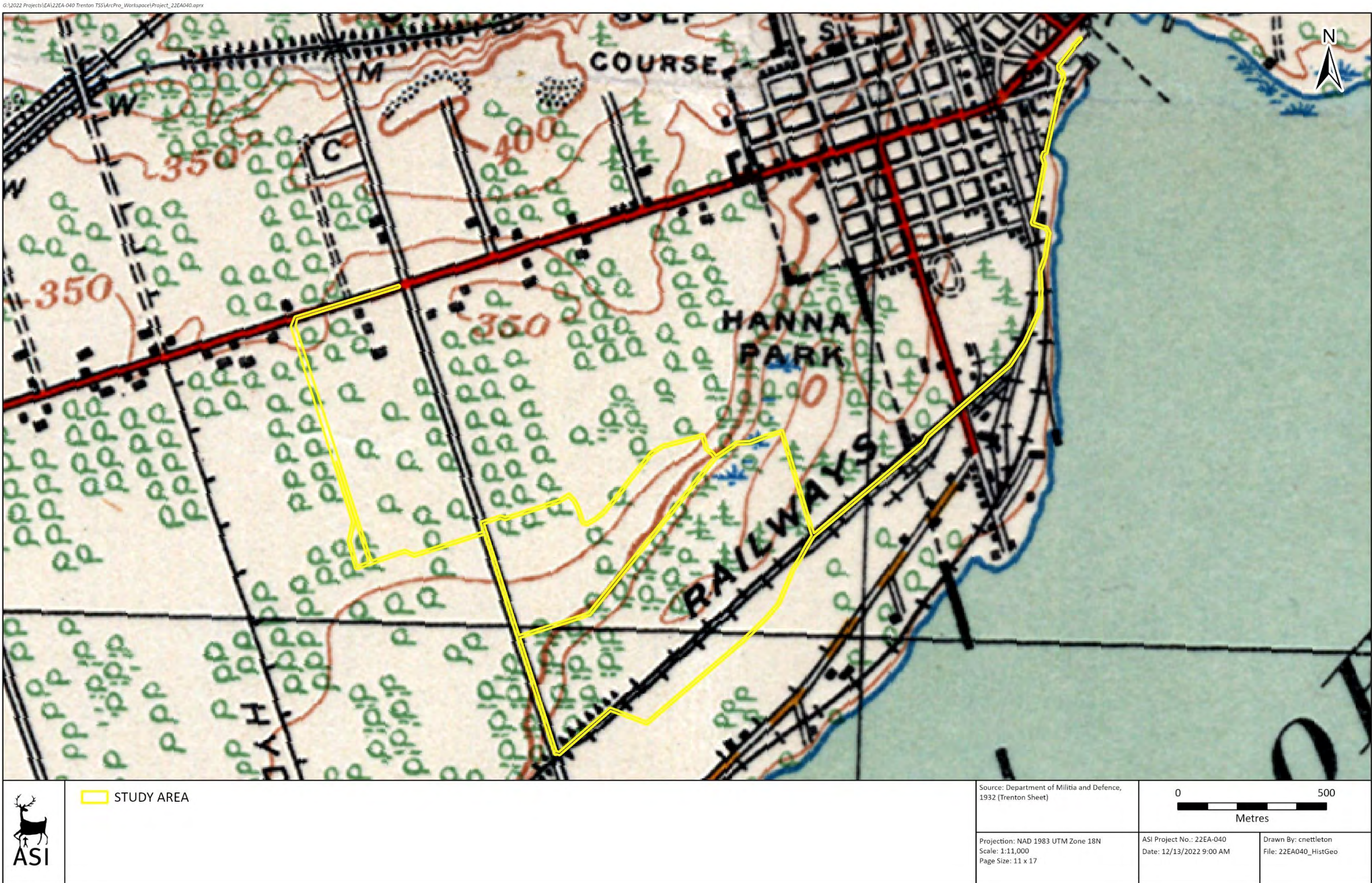


Figure 3: Study Area (Approximate Location) overlaid on the 1932 Topographic Map of Trenton



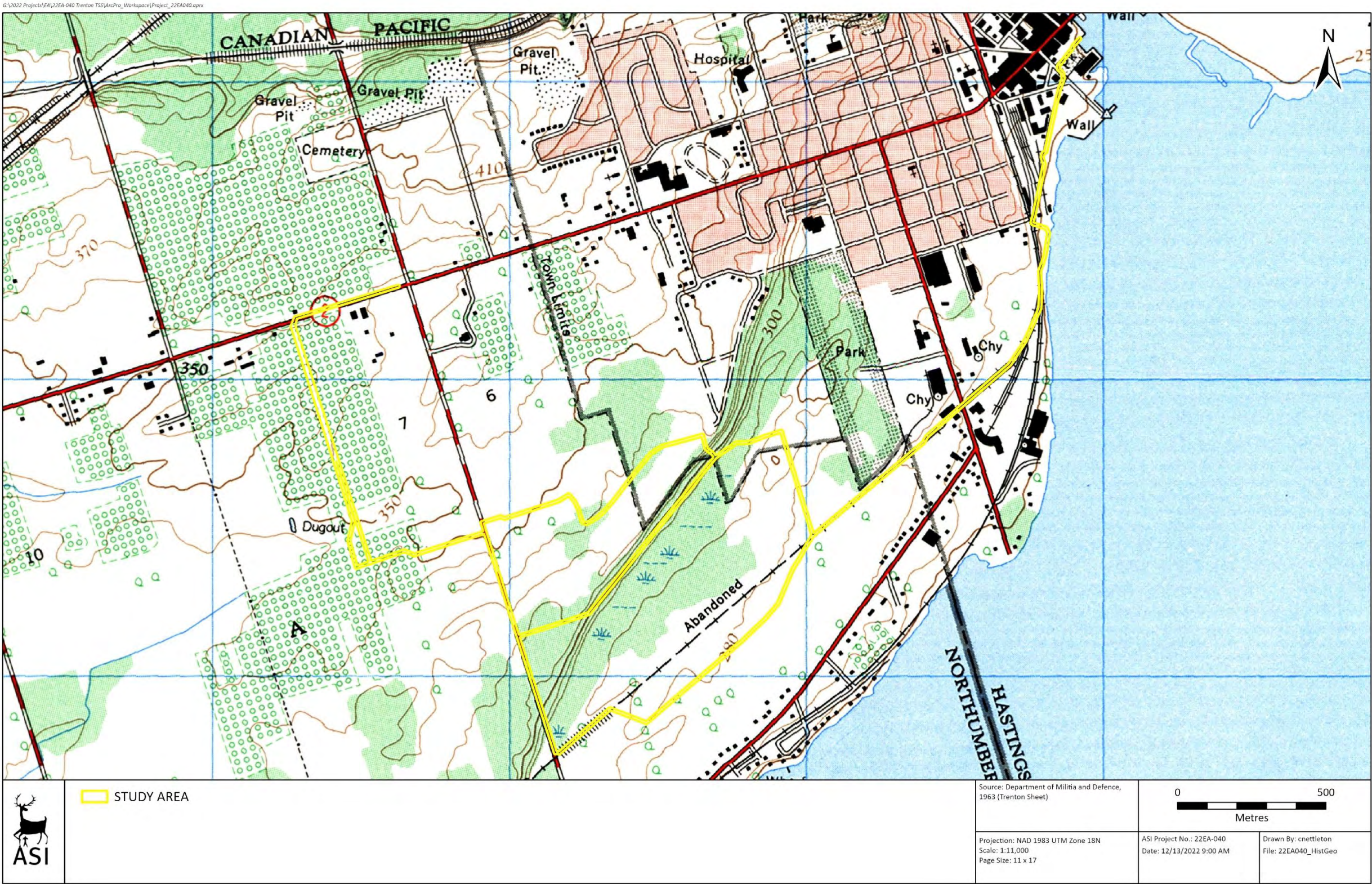


Figure 4: Study Area (Approximate Location) overlaid on the 1963 Topographic Map of Trenton





Figure 5: Study Area (Approximate Location) overlaid on a 1954 aerial photograph (Hunting Survey Corporation Limited, 1954)



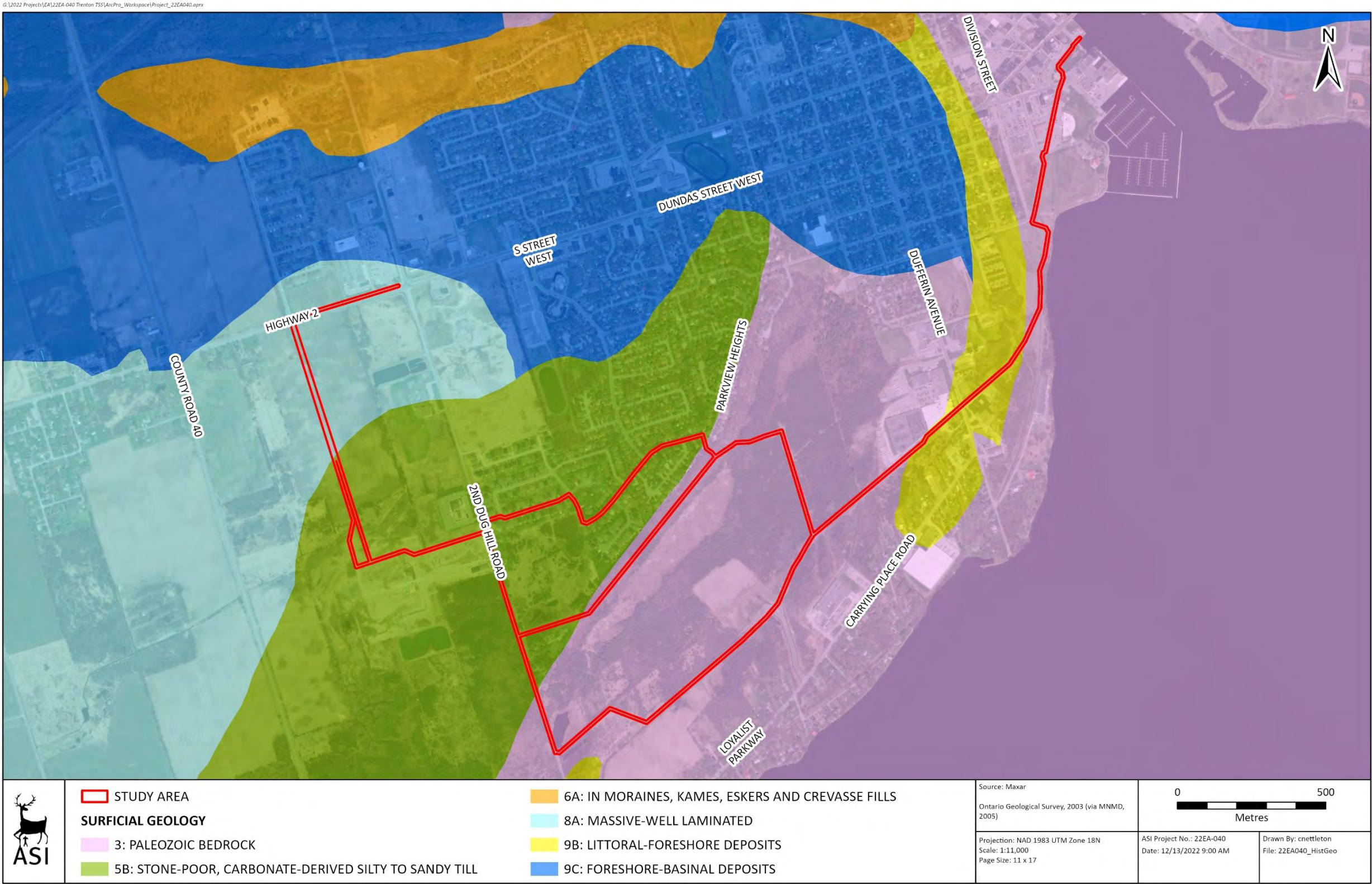


Figure 6: Study Area - Surficial Geology



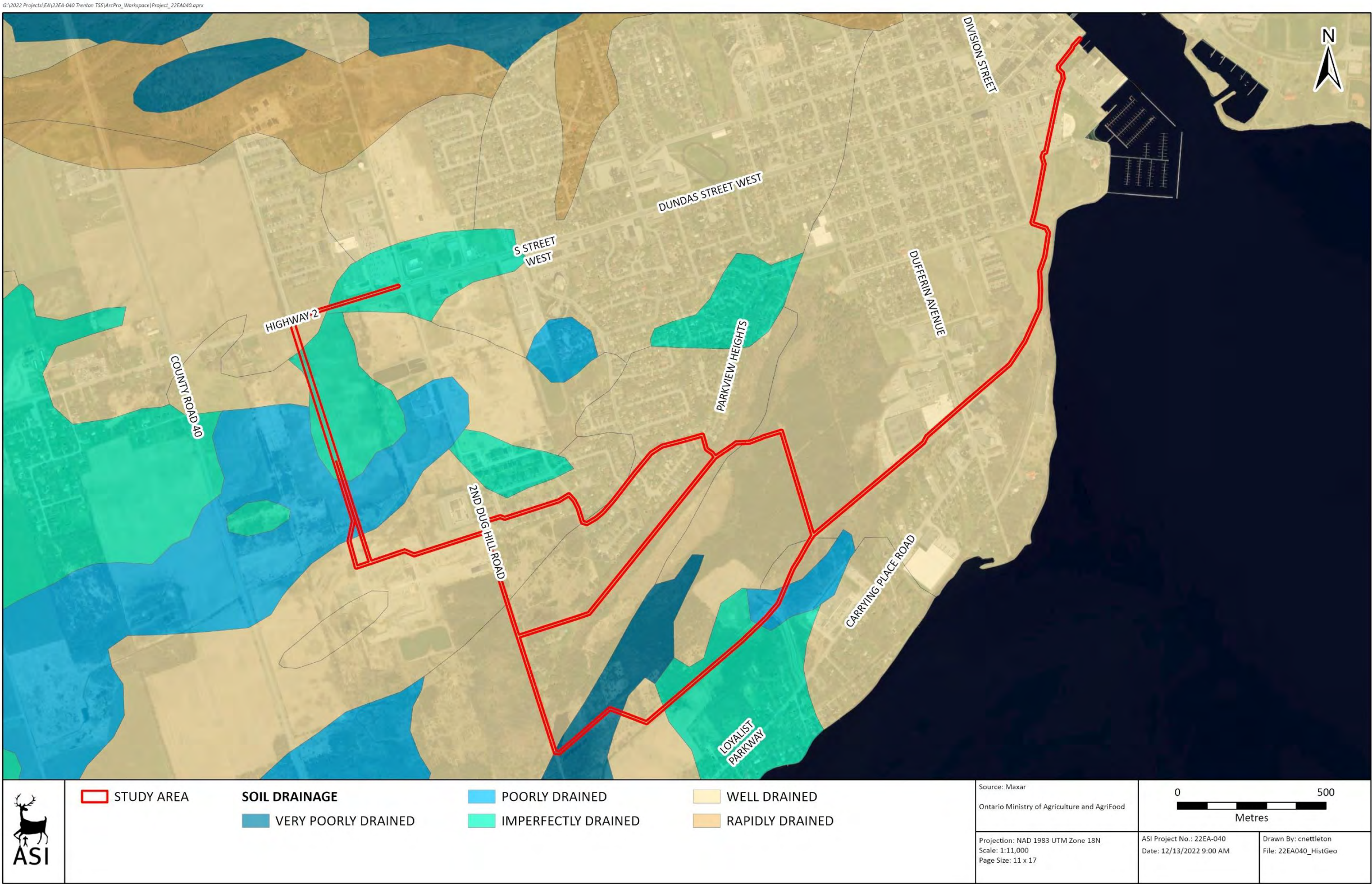


Figure 7: Study Area Soil Drainage





Figure 8: Trenton Trunk Sanitary Sewer Stage 1 Results – Key Sheet



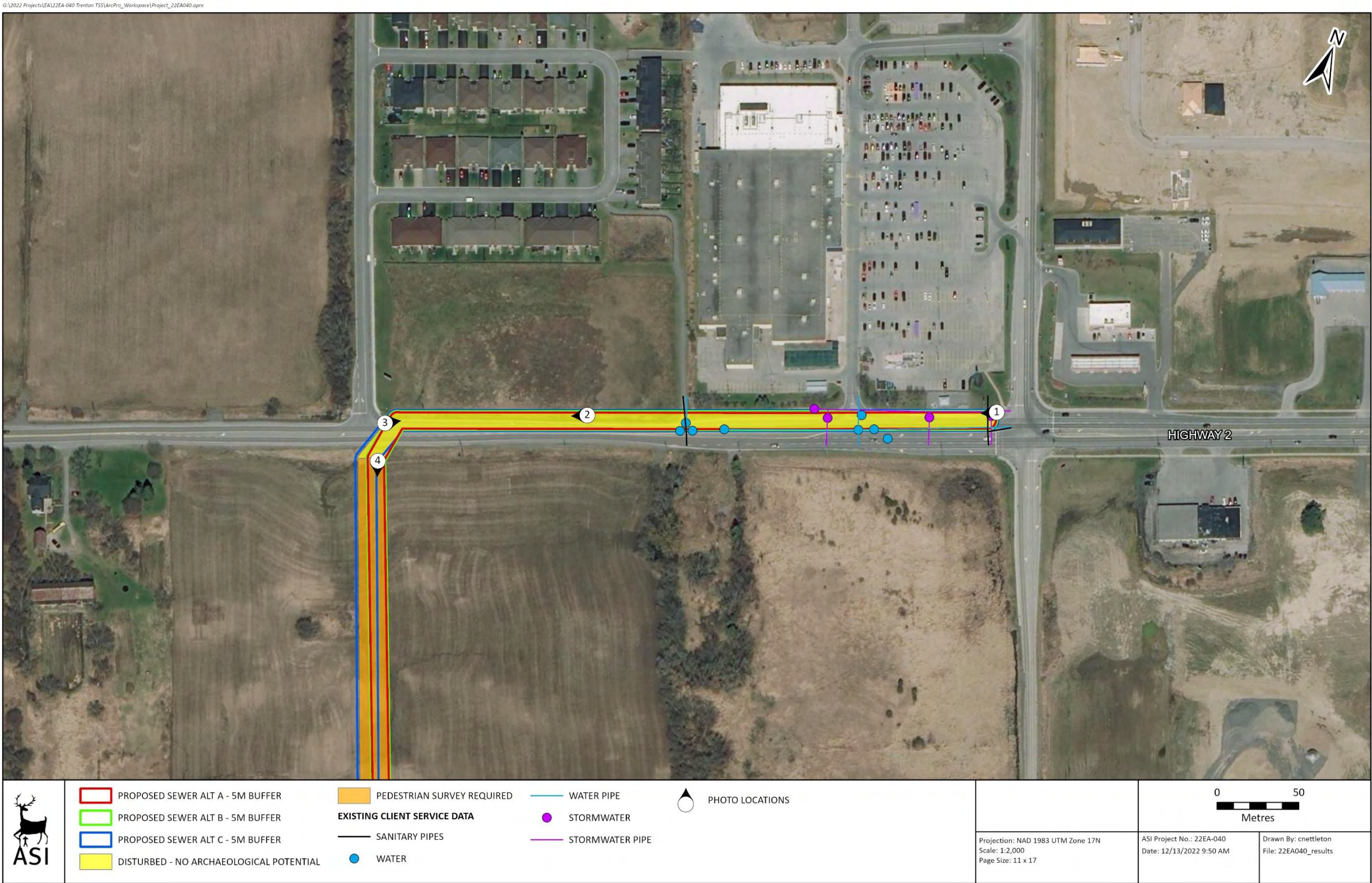


Figure 9: Trenton Trunk Sanitary Sewer Stage 1 Results – Sheet 1





Figure 10: Trenton Trunk Sanitary Sewer Stage 1 Results – Sheet 2



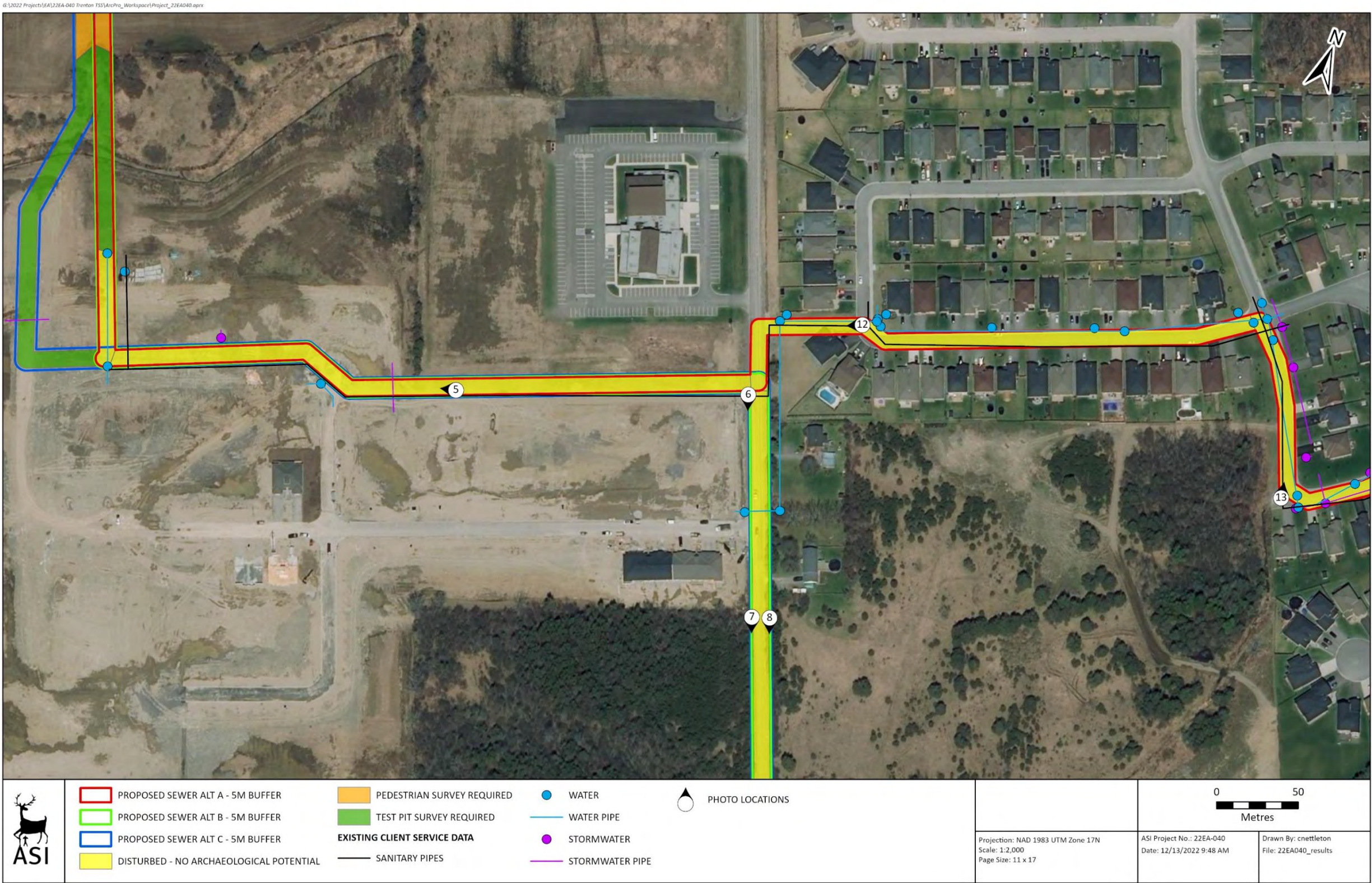


Figure 11: Trenton Trunk Sanitary Sewer Stage 1 Results – Sheet 3



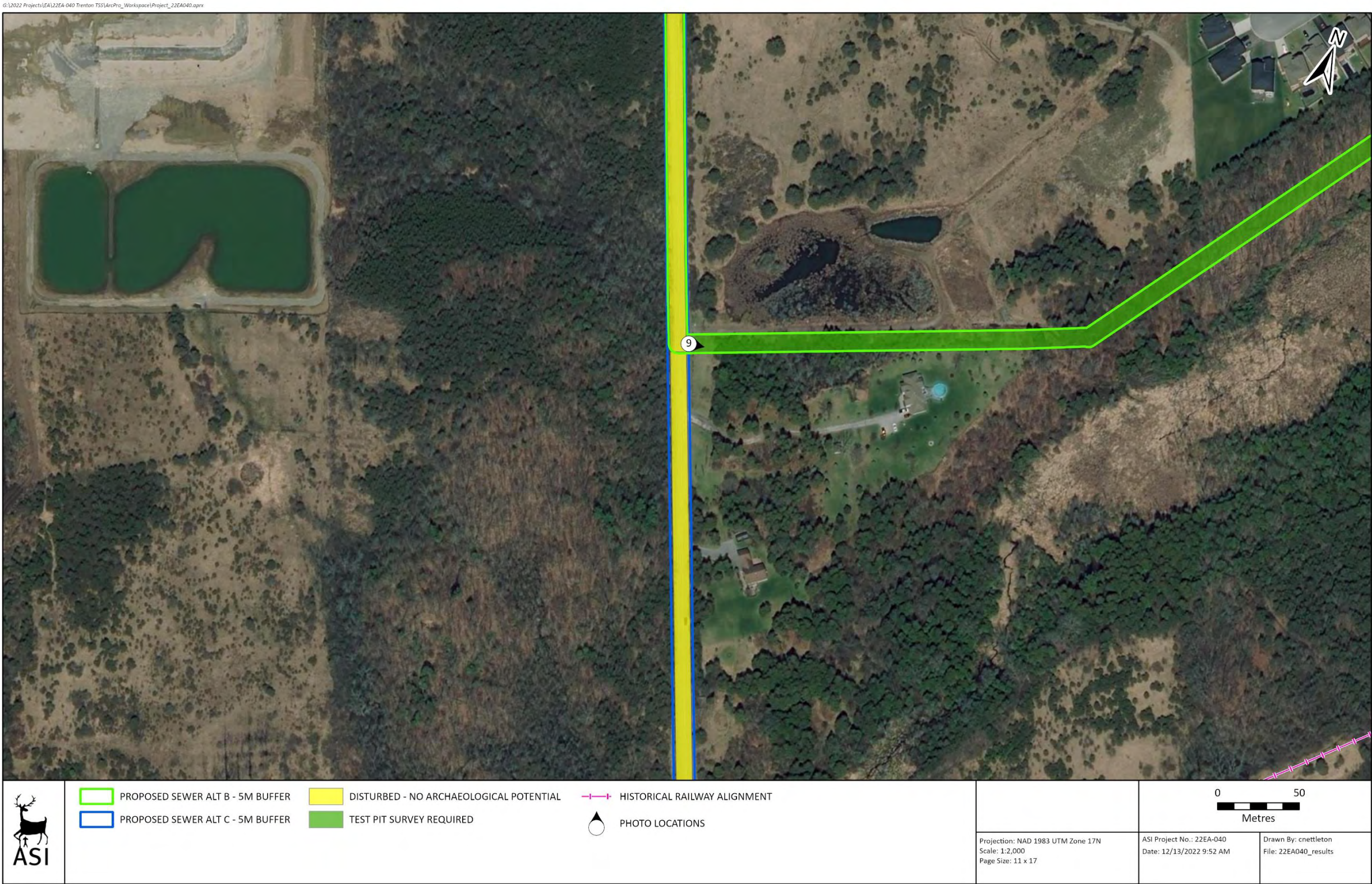


Figure 12: Trenton Trunk Sanitary Sewer Stage 1 Results – Sheet 4





Figure 13: Trenton Trunk Sanitary Sewer Stage 1 Results – Sheet 5



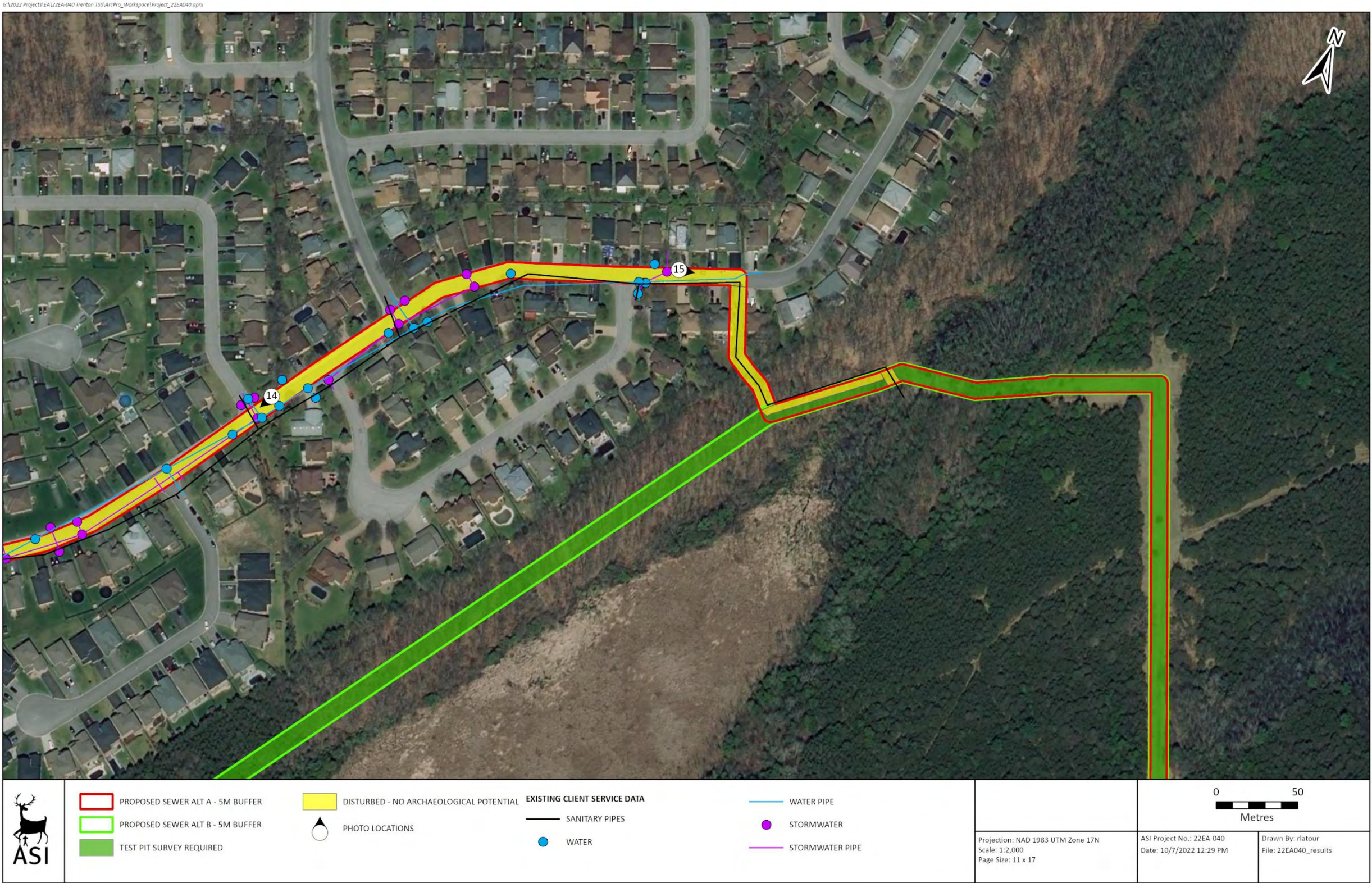


Figure 14: Trenton Trunk Sanitary Sewer Stage 1 Results – Sheet 6



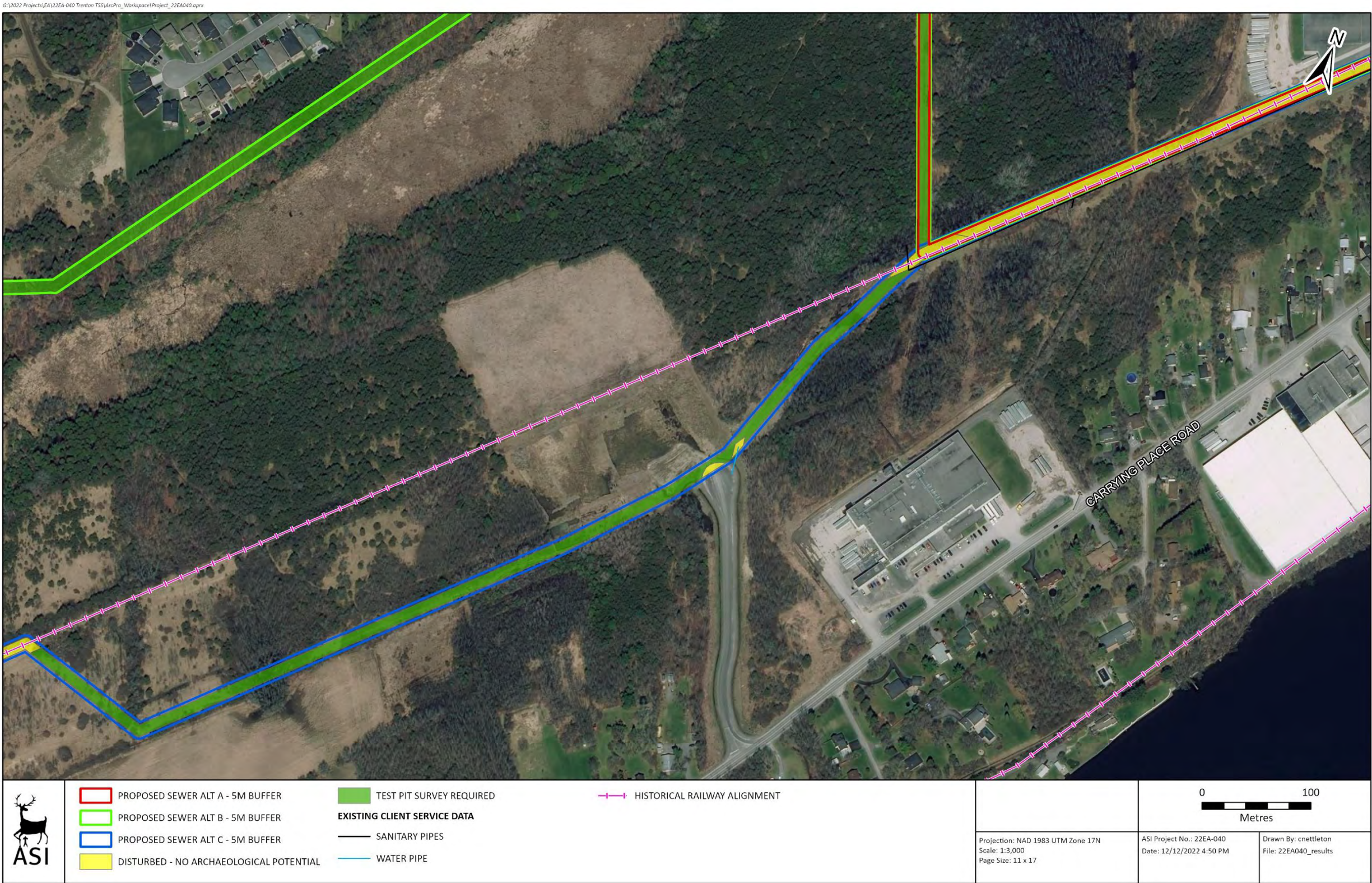


Figure 15: Trenton Trunk Sanitary Sewer Stage 1 Results – Sheet 7



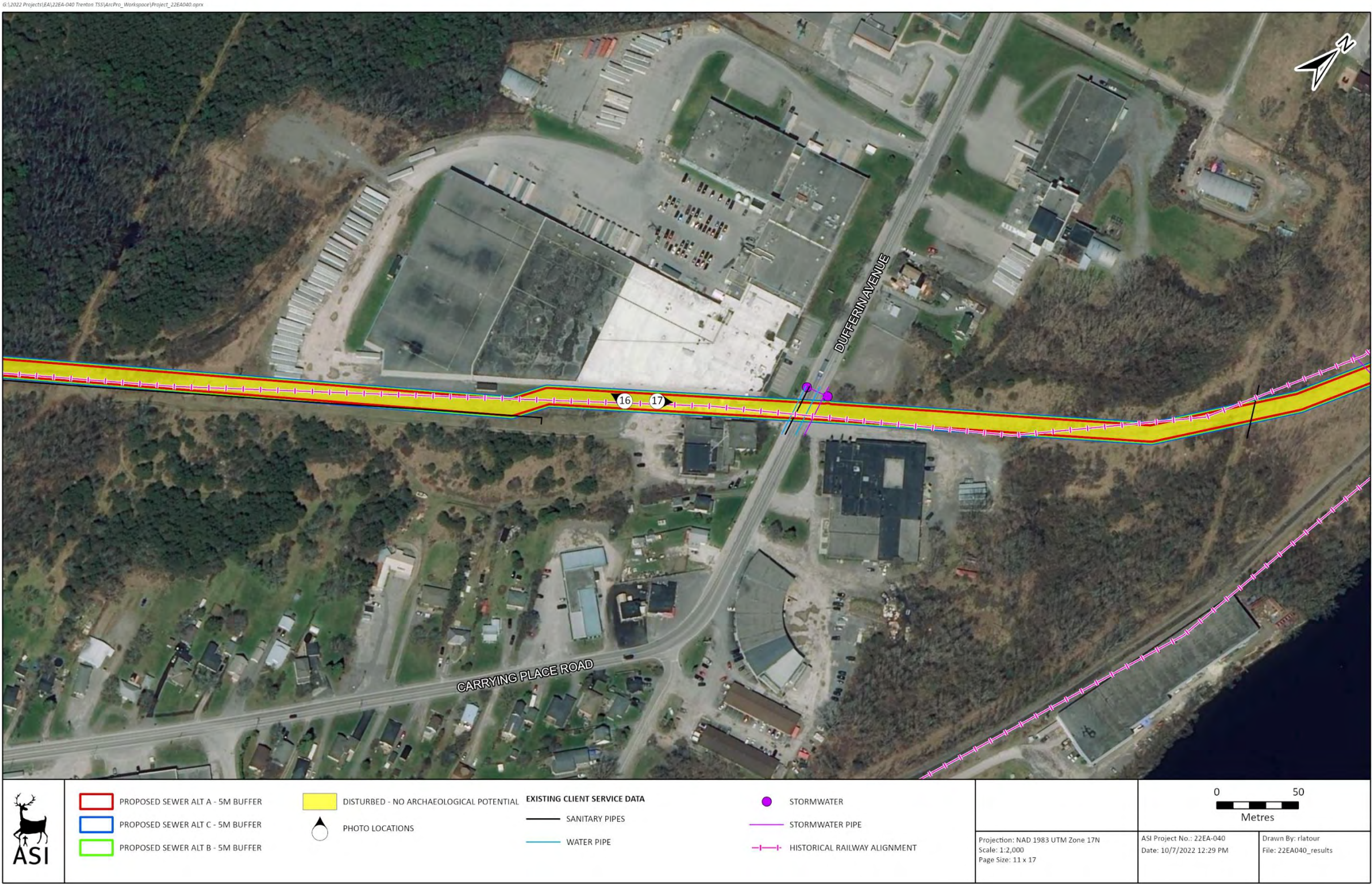


Figure 16: Trenton Trunk Sanitary Sewer Stage 1 Results – Sheet 8





Figure 17: Trenton Trunk Sanitary Sewer Stage 1 Results – Sheet 9



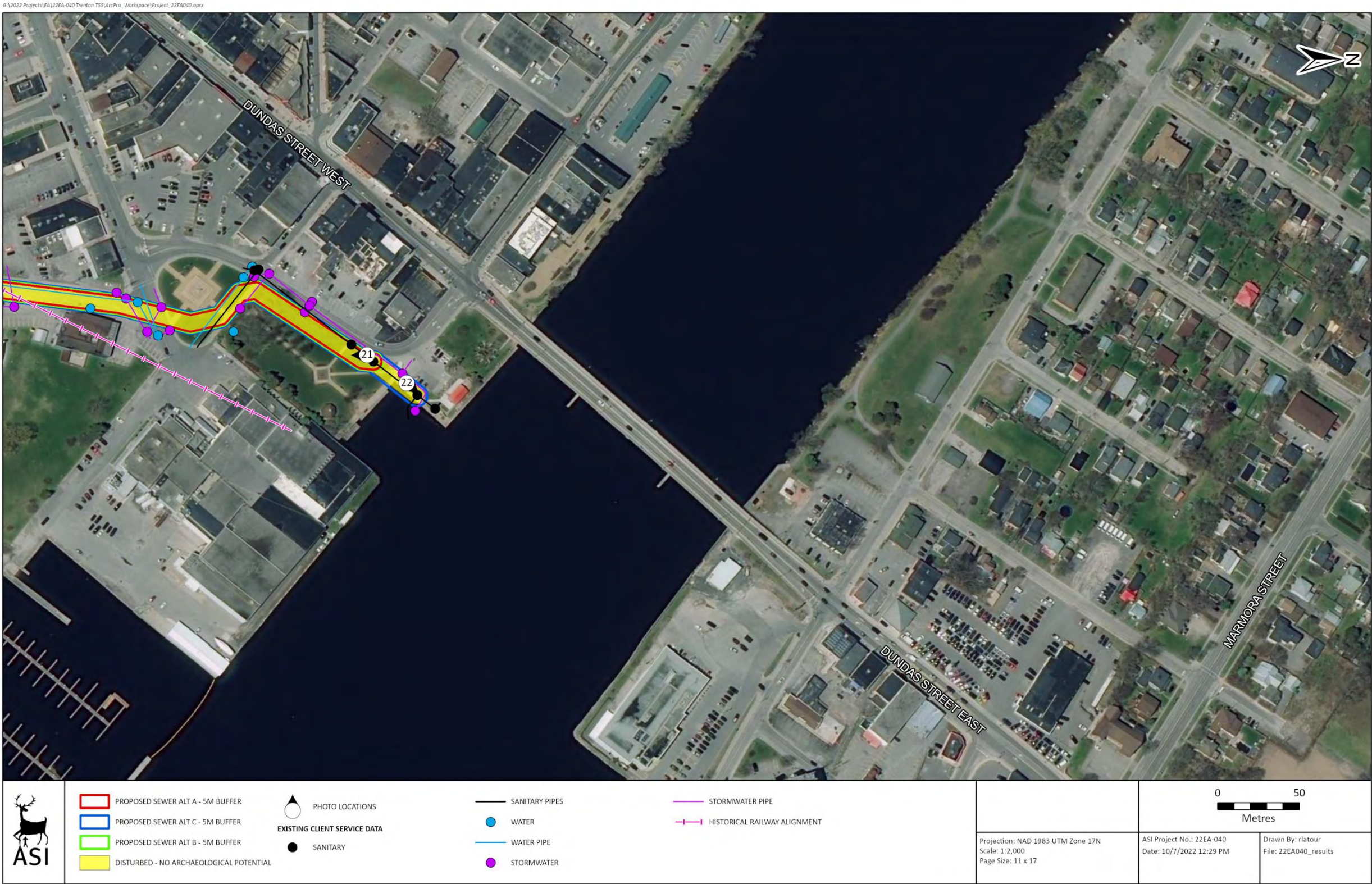


Figure 18: Trenton Trunk Sanitary Sewer Stage 1 Results – Sheet 10



Appendix C. Cultural Heritage Report: Existing Conditions and Preliminary Impact Assessment

Cultural Heritage Report: Existing Conditions and Preliminary Impact Assessment

Trenton Trunk Sanitary Sewer Municipal Class Environmental Assessment

City of Quinte West, Ontario

Draft Report

Prepared for:

Jacobs

245 Consumers Road
Toronto, ON M2J 1R3

Archaeological Services Inc. File: 23CH-062

April 2023



Executive Summary

Archaeological Services Incorporated was contracted by Jacobs, on behalf of the City of Quinte West, Ontario to conduct a Cultural Heritage Report and Preliminary Impact Assessment as part of the Trenton Trunk Sanitary Sewer Municipal Class Environmental Assessment. The Environmental Assessment involves the installation of a new trunk sanitary sewer in the community of Trenton in the City of Quinte West, Ontario. The project study area consists of three sanitary sewer alignment alternatives approximately 6.1 kilometres in length beginning at the intersection of Highway 2 and 2nd Dug Hill Road to Fraser Park Drive.

The purpose of this report is to present an inventory of known and potential built heritage resources (B.H.R.s) and cultural heritage landscapes (C.H.L.s), identify existing conditions of the project study area, provide a preliminary impact assessment, and propose appropriate mitigation measures.

The results of background historical research and a review of secondary source material, including historical mapping, indicate a study area with a generally rural history dating back to the eighteenth century. A review of federal, provincial, and municipal registers, inventories, and databases revealed that there is one known B.H.R. and one C.H.L. One additional potential B.H.R., four potential C.H.L.s, and two commemorative features (C.F.) were identified during background research and field review.

Based on the results of the assessment, the following recommendations have been developed:

1. Construction activities and staging should be suitably planned and undertaken to avoid impacts to identified C.F.s, B.H.R.s, and C.H.L.s.
2. Suitable mitigation including establishing no-go zones with fencing and issuing instructions to construction crews to avoid identified C.F.s, B.H.R.s, and C.H.L.s should be considered to mitigate any unintended impacts during construction.



3. Direct impacts are possible to C.H.L. 2 (Fraser Park), C.H.L. 3 (Trenton Veteran's Memorial), C.H.L. 4 (Millennium Trail), and C.H.L. 5 (Hanna Park). Suitable mitigation measures including establishing no-go zones with fencing and issuing instructions to construction crews to avoid the cultural heritage resources should be considered to mitigate any impacts to the C.H.L.s. Where the proposed work cannot be revised to avoid impacts, the removal of trees and other features should be limited to the extent possible. Where removal cannot be avoided, post-construction rehabilitation with sympathetic plantings should be implemented.
4. Where direct impacts to B.H.R.s or C.H.L.s are anticipated, a resource-specific Heritage Impact Assessment (H.I.A.) should be completed by a qualified cultural heritage professional as early as possible in detailed design, per City of Quinte West Official Plan Clause 10.6.3. In this respect, an H.I.A. should be completed for C.H.L.s 2-5 if suitable mitigation and avoidance measures cannot be implemented.
5. A Heritage Impact Assessment may also be required for B.H.R. 1 as per the City of Quinte West Official Plan Clause 10.6.3 as site alterations to lands adjacent to a protected heritage property are anticipated. As there are no direct or indirect adverse impacts anticipated, planning staff at the City of Quinte West should consider waiving the requirement for an H.I.A. in this case if suitable mitigation measures are employed.
6. Vibration during construction activities may impact C.F. 1 (Tree and Plaque – Civic Memorial Tree), C.F. 2 (Plaque – Champlain's War Party 1615), C.H.L. 2 (Fraser Park), and C.H.L. 3 (Hanna Park) as a result of their location in close proximity to the proposed alignments. To ensure the structures and features are not adversely impacted during construction, a baseline vibration assessment should be undertaken during detailed design.



7. Should future work require an expansion of the study area then a qualified heritage consultant should be contacted in order to confirm the impacts of the proposed work on B.H.R.s and C.H.L.s.
8. This report should be submitted by the proponent to heritage staff at the City of Quinte West, the Ministry of Citizenship and Multiculturalism, and any other relevant stakeholder with an interest in this project.



Report Accessibility Features

This report has been formatted to meet the Information and Communications Standards under the *Accessibility for Ontarians with Disabilities Act, 2005* (A.O.D.A.). Features of this report which enhance accessibility include: headings, font size and colour, alternative text provided for images, and the use of periods within acronyms. Given this is a technical report, there may be instances where additional accommodation is required in order for readers to access the report's information. If additional accommodation is required, please contact Annie Veilleux, Manager of the Cultural Heritage Division at Archaeological Services Inc., by email at aveilleux@asiheritage.ca or by phone 416-966-1069 ext. 255.



Project Personnel

- **Senior Project Manager:** Annie Veilleux, M.A. C.A.H.P., Senior Cultural Heritage Specialist, Manager – Cultural Heritage Division
- **Project Coordinator:** Jessica Bisson, B.F.A. (Hon.), Dipl. Heritage Conservation, Cultural Heritage Technician, Project Administrator – Cultural Heritage Division
- **Project Manager:** John Sleath, M.A., Cultural Heritage Specialist, Project Manager – Cultural Heritage Division
- **Field Review:** Leora Bebko, M.M.St., Cultural Heritage Technician, Technical Writer and Researcher – Cultural Heritage Division
- **Report Production:** Leora Bebko
- **Graphics Production:** Jonas Fernandez, M.S.c., Manager, Geomatics – Operations Division
- Carolyn Nettleton, B.A., Archaeologist, Geomatics Technician – Operations Division
- **Report Reviewer(s):** John Sleath and Annie Veilleux



Qualified Persons Involved in the Project

Annie Veilleux, M.A., C.A.H.P.

Senior Cultural Heritage Specialist, Manager – Cultural Heritage Division

The Senior Project Manager for this Cultural Heritage Report is **Annie Veilleux** (M.A., C.A.H.P.), who is a Senior Cultural Heritage Specialist and Manager of the Cultural Heritage Division. She was responsible for: overall project scoping and approach; development and confirmation of technical findings and study recommendations; application of relevant standards, guidelines and regulations; and implementation of quality control procedures. Annie is academically trained in the fields of cultural landscape theory, history, archaeology, and collections management and has over 15 years of experience in the field of cultural heritage resource management. This work has focused on the identification and evaluation of cultural heritage resources, both above and below ground. Annie has managed and conducted numerous built heritage and cultural heritage landscape assessments, heritage recordings and evaluations, and heritage impact assessments as required for Environmental Assessments and Planning projects throughout the Province of Ontario. Annie has extensive experience leading and conducting research for large-scale heritage planning studies, heritage interpretation programs, and projects requiring comprehensive public and Indigenous engagement programs. She is fully bilingual in English and French and has served as a French language liaison on behalf of Archaeological Services Inc. Annie is a member of the Ontario Archaeological Society, the National Trust for Canada, I.C.O.M.O.S. Canada, and I.A.P.2 Canada. She is also a professional member in good standing of the Canadian Association of Heritage Professionals.

John Sleath, M.A.

Cultural Heritage Specialist, Project Manager – Cultural Heritage Division

The Project Manager for this Cultural Heritage Report is **John Sleath** (MA), who is a Cultural Heritage Specialist and Project Manager within the Cultural Heritage Division with ASI. He was responsible for the day-to-day management activities, including scoping of research activities and site surveys and drafting of study



findings and recommendations. John has worked in a variety of contexts within the field of cultural heritage resource management for the past 14 years, as an archaeologist and as a cultural heritage professional. An exposure to both land-based and underwater archaeology and above ground cultural heritage assessments has provided John with a holistic understanding of heritage in a variety of contexts. In 2015 John began working in the Cultural Heritage Division researching and preparing a multitude of cultural heritage assessment reports and for which he was responsible for a variety of tasks including: completing archival research, investigating built heritage and cultural heritage landscapes, report preparation, historical map regression, and municipal consultation. Since 2018 John has been a project manager responsible for a variety of tasks required for successful project completion. This work has allowed John to engage with stakeholders from the public and private sector, as well as representatives from local municipal planning departments and museums. John has conducted hundreds of cultural heritage assessments across Ontario, with a focus on transit and rail corridor infrastructure including bridges and culverts.

Leora Bebko, M.M.St.

Cultural Heritage Technician, Technical Writer and Researcher – Cultural Heritage Division

The Cultural Heritage Technician for this project is **Leora Bebko** (M.M.St.), who is a Cultural Heritage Technician and Technical Writer and Researcher within the Cultural Heritage Division. She was responsible for preparing and contributing research and technical reporting. In Leora's career as a cultural heritage and museum professional she has worked extensively in public programming and education within built heritage spaces. Leora is particularly interested in the ways in which our heritage landscapes can be used to facilitate public engagement and interest in our region's diverse histories. While completing her Master of Museum Studies she was able to combine her interest in heritage architecture and museums by focusing on the historic house museum and the accessibility challenges they face. As a thesis project, Leora co-curated the award-winning exhibit *Lost & Found: Rediscovering Fragments of Old Toronto* on the grounds of Campbell House Museum. Since completing her degree she has worked as a



historical interpreter in a variety of heritage spaces, learning a range of traditional trades and has spent considerable time researching heritage foodways and baking in historic kitchens. In 2022, she joined ASI's Cultural Heritage team as a Cultural Heritage Technician.



Glossary

Built Heritage Resource (B.H.R.)

Definition: "...a building, structure, monument, installation or any manufactured remnant that contributes to a property's cultural heritage value or interest as identified by a community, including an Indigenous community. Built heritage resources are located on property that may be designated under Parts IV or V of the *Ontario Heritage Act*, or that may be included on local, provincial, federal and/or international registers" (Ministry of Municipal Affairs and Housing, 2020, p. 41).

Cultural Heritage Landscape (C.H.L.)

Definition: "...a defined geographical area that may have been modified by human activity and is identified as having cultural heritage value or interest by a community, including an Indigenous community. The area may include features such as buildings, structures, spaces, views, archaeological sites or natural elements that are valued together for their interrelationship, meaning or association. Cultural heritage landscapes may be properties that have been determined to have cultural heritage value or interest under the *Ontario Heritage Act*, or have been included on federal and/or international registers, and/or protected through official plan, zoning by-law, or other land use planning mechanisms" (Ministry of Municipal Affairs and Housing, 2020, p. 42).

Known Built Heritage Resource or Cultural Heritage Landscape

Definition: A known built heritage resource or cultural heritage landscape is a property that has recognized cultural heritage value or interest. This can include a property listed on a Municipal Heritage Register, designated under Part IV or V of the *Ontario Heritage Act*, or protected by a heritage agreement, covenant or easement, protected by the *Heritage Railway Stations Protection Act* or the *Heritage Lighthouse Protection Act*, identified as a Federal Heritage Building, or located within a U.N.E.S.C.O. World Heritage Site (Ministry of Tourism, Culture and Sport, 2016).



Impact

Definition: Includes negative and positive, direct and indirect effects to an identified built heritage resource and cultural heritage landscape. Direct impacts include destruction of any, or part of any, significant heritage attributes or features and/or unsympathetic or incompatible alterations to an identified resource. Indirect impacts include, but are not limited to, creation of shadows, isolation of heritage attributes, direct or indirect obstruction of significant views, change in land use, land disturbances (Ministry of Tourism Culture and Sport, 2006b). Indirect impacts also include potential vibration impacts (See Section 2.5 for complete definition and discussion of potential impacts).

Mitigation

Definition: Mitigation is the process of lessening or negating anticipated adverse impacts to built heritage resources or cultural heritage landscapes and may include, but are not limited to, such actions as avoidance, monitoring, protection, relocation, remedial landscaping, and documentation of the cultural heritage landscape and/or built heritage resource if to be demolished or relocated (Ministry of Tourism Culture and Sport, 2006a).

Potential Built Heritage Resource or Cultural Heritage Landscape

Definition: A potential built heritage resource or cultural heritage landscape is a property that has the potential for cultural heritage value or interest. This can include properties/project area that contain a parcel of land that is the subject of a commemorative or interpretive plaque, is adjacent to a known burial site and/or cemetery, is in a Canadian Heritage River Watershed, or contains buildings or structures that are 40 or more years old (Ministry of Tourism, Culture and Sport, 2016).

Significant

Definition: With regard to cultural heritage and archaeology resources, significant means “resources that have been determined to have cultural heritage value or interest. Processes and criteria for determining cultural heritage value or interest are established by the Province under the authority of the *Ontario Heritage Act*.



While some significant resources may already be identified and inventoried by official sources, the significance of others can only be determined after evaluation” (Ministry of Municipal Affairs and Housing, 2020, p. 51).

Vibration Zone of Influence

Definition: Area within a 50 metre buffer of construction-related activities in which there is potential to affect an identified built heritage resource or cultural heritage landscape. A 50 metre buffer is applied in the absence of a project-specific defined vibration zone of influence based on existing secondary source literature and direction (Carman et al., 2012; Crispino & D’Apuzzo, 2001; P. Ellis, 1987; Rainer, 1982; Wiss, 1981). This buffer accommodates the additional threat from collisions with heavy machinery or subsidence (Randl, 2001).



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1.0 Introduction

Archaeological Services Incorporated was contracted by Jacobs on behalf of the City of Quinte West, Ontario to conduct a Cultural Heritage Report as part of the Trenton Trunk Sanitary Sewer Municipal Class Environmental Assessment. The purpose of this report is to present an inventory of known and potential built heritage resources (B.H.R.s) and cultural heritage landscapes (C.H.L.s), identify existing conditions of the project study area, provide a preliminary impact assessment, and propose appropriate mitigation measures.

1.1 Project Overview

The Trenton Trunk Sanitary Sewer Municipal Class Environmental Assessment involves the installation of a new trunk sanitary sewer in the Community of Trenton in the City of Quinte West, Ontario. The project study area consists of three sanitary sewer alignment alternatives approximately 6.1 kilometres in length beginning at the intersection of Highway 2 and 2nd Dug Hill Road to Fraser Park Drive.

1.2 Description of Study Area

This Cultural Heritage Report will focus on the project study area with an additional 50 metre buffer (Figure 1). This project study area has been defined as inclusive of those lands that may contain B.H.R.s or C.H.L.s that may be subject to direct or indirect impacts as a result of the proposed undertaking. Properties within the study area are located in the community of Trenton in the City of Quinte West.



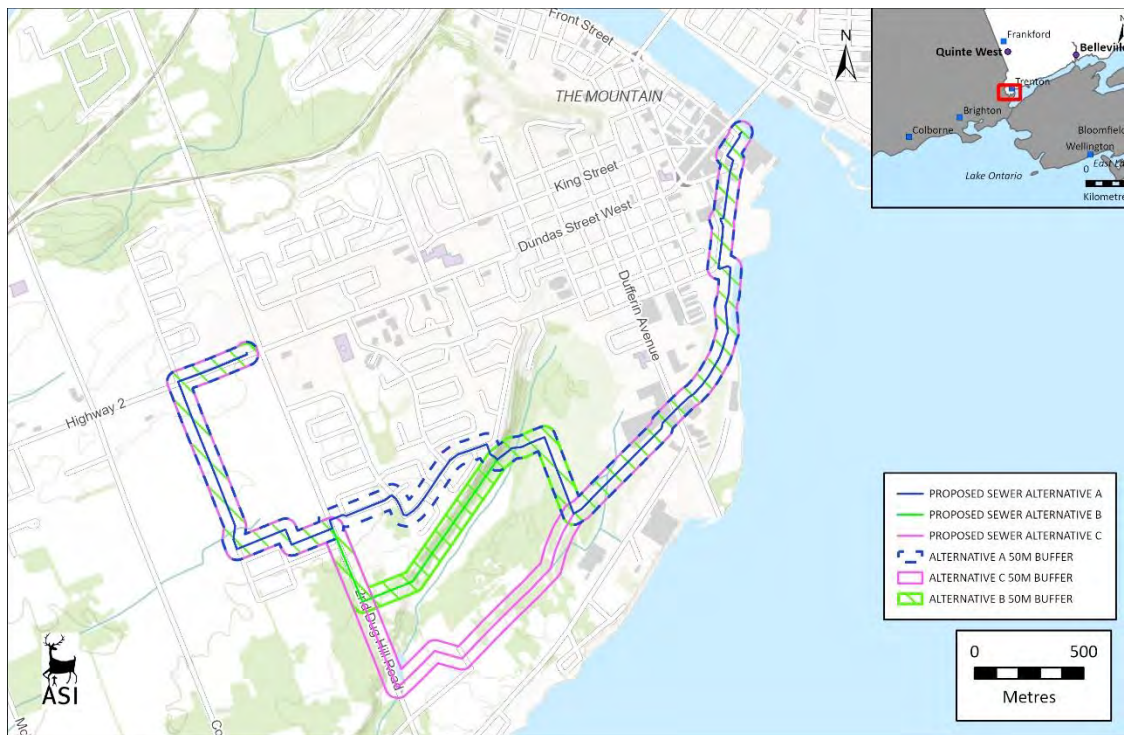


Figure 1: Location of the study area (Base Map: ©OpenStreetMap and contributors, Creative Commons-Share Alike License (C.C.-By-S.A.))

2.0 Methodology

The following sections provide a summary of regulatory requirements and municipal and regional heritage policies that guide this cultural heritage assessment. In addition, an overview of the process undertaken to identify known and potential built heritage resources and cultural heritage landscapes is provided, along with a description of how the preliminary impact assessment will be undertaken.

2.1 Regulatory Requirements

The *Ontario Heritage Act* (O.H.A.) (Ontario Heritage Act, R.S.O. c. O.18, 1990 [as Amended in 2022], 1990) is the primary piece of legislation that determines policies, priorities and programs for the conservation of Ontario's heritage. There are many other provincial acts, regulations and policies governing land use

planning and resource development that support heritage conservation, including:

- The *Planning Act* (Planning Act, R.S.O. 1990, c. P.13, 1990), which states that “conservation of features of significant architectural, cultural, historical, archaeological or scientific interest” is a “matter of provincial interest”. The *Provincial Policy Statement* (Ministry of Municipal Affairs and Housing, 2020), issued under the *Planning Act*, links heritage conservation to long-term economic prosperity and requires municipalities and the Crown to conserve significant built heritage resources and cultural heritage landscapes.
- The *Environmental Assessment Act* (Environmental Assessment Act, R.S.O. c. E.18, 1990), which defines “environment” to include cultural conditions that influence the life of humans or a community. Cultural heritage resources, which includes archaeological resources, built heritage resources and cultural heritage landscapes, are important components of those cultural conditions.

The Ministry of Citizenship and Multiculturalism (hereafter “The Ministry”) is charged under Section 2.0 of the O.H.A. with the responsibility to determine policies, priorities, and programs for the conservation, protection, and preservation of the heritage of Ontario. The *Standards and Guidelines for Conservation of Provincial Heritage Properties* (Ministry of Tourism Culture and Sport, 2010) (hereinafter “*Standards and Guidelines*”) apply to properties the Government of Ontario owns or controls that have “cultural heritage value or interest” (C.H.V.I.). The *Standards and Guidelines* provide a series of guidelines that apply to provincial heritage properties in the areas of identification and evaluation; protection; maintenance; use; and disposal. For the purpose of this report, the *Standards and Guidelines* provide points of reference to aid in determining potential heritage significance in identification of built heritage resources and cultural heritage landscapes. While not directly applicable for use in properties not under provincial ownership, the *Standards and Guidelines* are



regarded as best practice for guiding heritage assessments and ensure that additional identification and mitigation measures are considered.

Similarly, the *Ontario Heritage Tool Kit* (Ministry of Culture, 2006) provides a guide to evaluate heritage properties. To conserve a built heritage resource or cultural heritage landscape, the *Ontario Heritage Tool Kit* states that a municipality or approval authority may require a heritage impact assessment and/or a conservation plan to guide the approval, modification, or denial of a proposed development.

2.2 Municipal/Regional Heritage Policies

The study area is located within the City of Quinte West, Ontario. Policies relating to built heritage resources and cultural heritage landscapes were reviewed from the following sources:

- *City of Quinte West Official Plan* (City of Quinte West, 2013)
- *Trent Severn Waterway and Peterborough Lift Lock National Historic Sites of Canada Management Plan, 2022* (Parks Canada Agency, 2022)

2.3 Identification of Built Heritage Resources and Cultural Heritage Landscapes

This Cultural Heritage Report follows guidelines presented in the *Ontario Heritage Tool Kit* (Ministry of Culture, 2006) and *Criteria for Evaluating Potential for Built Heritage Resources and Cultural Heritage Landscapes* (Ministry of Tourism, Culture and Sport, 2016). The objective of this report is to present an inventory of known and potential built heritage resources and cultural heritage landscapes, and to provide a preliminary understanding of known and potential built heritage resources and cultural heritage landscapes located within areas anticipated to be directly or indirectly impacted by the proposed project.



In the course of the cultural heritage assessment process, all potentially affected built heritage resources and cultural heritage landscapes are subject to identification and inventory. Generally, when conducting an identification of built heritage resources and cultural heritage landscapes within a study area, three stages of research and data collection are undertaken to appropriately establish the potential for and existence of built heritage resources and cultural heritage landscapes in a geographic area: background research and desktop data collection; field review; and identification.

Background historical research, which includes consultation of primary and secondary source research and historical mapping, is undertaken to identify early settlement patterns and broad agents or themes of change in a study area. This stage in the data collection process enables the researcher to determine the presence of sensitive heritage areas that correspond to nineteenth- and twentieth-century settlement and development patterns. To augment data collected during this stage of the research process, federal, provincial, and municipal databases and/or agencies are consulted to obtain information about specific properties that have been previously identified and/or designated as having cultural heritage value. Typically, resources identified during these stages of the research process are reflective of particular architectural styles or construction methods, associated with an important person, place, or event, and contribute to the contextual facets of a particular place, neighbourhood, or intersection.

A field review is then undertaken to confirm the location and condition of previously identified built heritage resources and cultural heritage landscapes. The field review is also used to identify potential built heritage resources and cultural heritage landscapes that have not been previously identified on federal, provincial, or municipal databases or through other appropriate agency data sources.

During the cultural heritage assessment process, a property is identified as a potential built heritage resources or cultural heritage landscape based on



research, the Ministry screening tool, and professional expertise and best practice. In addition, use of a 40-year-old benchmark is a guiding principle when conducting a preliminary identification of built heritage resources and cultural heritage landscapes. While identification of a resource that is 40 years old or older does not confer outright heritage significance, this benchmark provides a means to collect information about resources that may retain heritage value. Similarly, if a resource is slightly younger than 40 years old, this does not preclude the resource from having cultural heritage value or interest.

2.4 Background Information Review

To make an identification of previously identified known or potential built heritage resources and cultural heritage landscapes within the study area, the following sections present the resources that were consulted as part of this Cultural Heritage Report.

2.4.1 Review of Existing Heritage Inventories

A number of resources were consulted in order to identify previously identified built heritage resources and cultural heritage landscapes within the study area. These resources, reviewed on 5 April 2023, include:

- The City of Quinte West's List of Designated Properties (City of Quinte West, 2021);
- Historical maps (including historical atlases, topographic maps, and aerial photography);
- The *Ontario Heritage Act Register* (Ontario Heritage Trust, n.d.b);
- The *Places of Worship Inventory* (Ontario Heritage Trust, n.d.c);
- The inventory of Ontario Heritage Trust easements (Ontario Heritage Trust, n.d.a);
- The Ontario Heritage Trust's *An Inventory of Provincial Plaques Across Ontario*: a PDF of Ontario Heritage Trust Plaques and their locations (Ontario Heritage Trust, 2018);



- The Ontario Heritage Trust's *An Inventory of Ontario Heritage Trust-owned properties across Ontario*: a PDF of properties owned by the Ontario Heritage Trust (Ontario Heritage Trust, 2019);
- Inventory of known cemeteries/burial sites in the Ontario Genealogical Society's online databases (Ontario Genealogical Society, n.d.);
- Canada's Historic Places website: available online, the searchable register provides information on historic places recognized for their heritage value at the local, provincial, territorial, and national levels (Parks Canada, n.d.a);
- Directory of Federal Heritage Designations: a searchable on-line database that identifies National Historic Sites, National Historic Events, National Historic People, Heritage Railway Stations, Federal Heritage Buildings, and Heritage Lighthouses (Parks Canada, n.d.b);
- Canadian Heritage River System: a national river conservation program that promotes, protects and enhances the best examples of Canada's river heritage (Canadian Heritage Rivers Board and Technical Planning Committee, n.d.); and,
- United Nations Educational, Scientific and Cultural Organization (U.N.E.S.C.O.) World Heritage Sites (U.N.E.S.C.O. World Heritage Centre, n.d.).

2.4.2 Review of Previous Heritage Reporting

No previous heritage reports pertaining to the Trenton Trunk Sanitary Sewer Municipal Class Environmental Assessment study area were available for review at the time of report writing..

2.4.3 Community Information Gathering

The following individuals, groups, and/or organizations were contacted to gather information on known and potential built heritage resources and cultural heritage landscapes, active and inactive cemeteries, and areas of identified Indigenous interest within the study area:



- Kelly Weste, Manager of Planning Services for the City of Quinte West (email communication 19 April 2023). Email correspondence provided by-law information for heritage designation of 65 Dundas Street West and offered to provide a list of municipally listed heritage properties. The list had not been received at the time of report submission.
- The Ministry (email communication 13 April 2023). Email correspondence confirmed that there are no properties designated by the Minister and no known Provincial Heritage Properties within the study area.
- The Ontario Heritage Trust (email communications 18 April 2023). A response indicated that there are no conservation easements or Trust-owned properties within the study area.
- The project Notice of Commencement was sent by Jacobs to Alderville First Nation, Beausoleil First Nation, Chippewas of Georgina Island, Curve Lake First Nation, Hiawatha First Nation, Mississaugas of Scugog Island First Nation, and Mohawks of the Bay of Quinte on 29 July 2022, to Chippewas of Rama First Nation, Nation Huronne-Wendat, and Williams Treaties First Nations on 8 August 2022. A follow-up email communication was sent to all groups listed above on 28 September 2022. No response was received by any of these groups at the time of draft report preparation (April 2023).

2.5 Preliminary Impact Assessment Methodology

To assess the potential impacts of the undertaking, identified built heritage resources and cultural heritage landscapes are considered against a range of possible negative impacts, based on the *Ontario Heritage Tool Kit InfoSheet #5: Heritage Impact Assessments and Conservation Plans* (Ministry of Tourism Culture and Sport, 2006b). These include:

Direct impacts:

- Destruction of any, or part of any, significant heritage attributes or features; and



- Alteration that is not sympathetic, or is incompatible, with the historic fabric and appearance.

Indirect impacts:

- Shadows created that alter the appearance of a heritage attribute or change the viability of a natural feature or plantings, such as a garden;
- Isolation of a heritage attribute from its surrounding environment, context or a significant relationship;
- Direct or indirect obstruction of significant views or vistas within, from, or of built and natural features;
- A change in land use such as rezoning a battlefield from open space to residential use, allowing new development or site alteration to fill in the formerly open spaces; and
- Land disturbances such as a change in grade that alters soils, and drainage patterns that adversely affect an archaeological resource.

Indirect impacts from construction-related vibration have the potential to negatively affect built heritage resources and cultural heritage landscapes depending on the type of construction methods and machinery selected for the project and proximity and composition of the identified resources. Potential vibration impacts are defined as having potential to affect an identified built heritage resources and cultural heritage landscapes where work is taking place within 50 metre of features on the property. A 50 metre buffer is applied in the absence of a project-specific defined vibration zone of influence based on existing secondary source literature and direction provided from the Ministry (Carman et al., 2012; Crispino & D'Apuzzo, 2001; P. Ellis, 1987; Rainer, 1982; Wiss, 1981). This buffer accommodates any additional or potential threat from collisions with heavy machinery or subsidence (Randl, 2001).

Several additional factors are also considered when evaluating potential impacts on identified built heritage resources and cultural heritage landscapes. These are outlined in a document set out by the Ministry of Culture and Communications



(now Ministry of Citizenship and Multiculturalism) and the Ministry of the Environment entitled *Guideline for Preparing the Cultural Heritage Resource Component of Environmental Assessments* (1992). While this document has largely been superseded in some respects by more current policies and legislation, the guidance provided that continues to be of relevance to this specific project includes the following definitions:

- Magnitude: the amount of physical alteration or destruction which can be expected;
- Severity: the irreversibility or reversibility of an impact;
- Duration: the length of time an adverse impact persists;
- Frequency: the number of times an impact can be expected;
- Range: the spatial distribution, widespread or site specific, of an adverse impact; and
- Diversity: the number of different kinds of activities to affect a heritage resource.

The proposed undertaking should endeavor to avoid adversely affecting known and potential built heritage resources and cultural heritage landscapes and interventions should be managed in such a way that identified features are conserved. When the nature of the undertaking is such that adverse impacts are unavoidable, it may be necessary to implement alternative approaches or mitigation strategies that alleviate the negative effects on identified built heritage resources and cultural heritage landscapes. Mitigation is the process of lessening or negating anticipated adverse impacts and may include, but are not limited to, such actions as avoidance, monitoring, protection, relocation, remedial landscaping, and documentation of the built heritage resource or cultural heritage landscape if to be demolished or relocated.

Various works associated with infrastructure improvements have the potential to affect built heritage resources and cultural heritage landscapes in a variety of ways, and as such, appropriate mitigation measures for the undertaking need to be considered.



3.0 Summary of Historical Development Within the Study Area

This section provides a brief summary of historical research. A review of available primary and secondary source material was undertaken to produce a contextual overview of the study area, including a general description of physiography, Indigenous land use, and Euro-Canadian settlement.

3.1 Physiography

The study area is situated within the Iroquois Plain physiographic region of southern Ontario (Chapman & Putnam, 1984). The Iroquois Plain physiographic region of southern Ontario is a lowland region bordering Lake Ontario. This region is characteristically flat and formed by lacustrine deposits laid down by the inundation of Lake Iroquois, a body of water that existed during the late Pleistocene. This region extends from the Trent River, around the western part of Lake Ontario, to the Niagara River, spanning a distance of 300 kilometres (Chapman & Putnam, 1984). The old shorelines of Lake Iroquois include cliffs, bars, beaches and boulder pavements. The old sandbars in this region are good aquifers that supply water to farms and villages. The gravel bars are quarried for road and building material, while the clays of the old lake bed have been used for the manufacture of bricks (Chapman & Putnam, 1984).

3.2 Indigenous Land Use and Settlement

Southern Ontario has been occupied by human populations since the retreat of the Laurentide glacier approximately 13,000 years ago, or 11,000 Before the Common Era (B.C.E.) (Ferris, 2013).¹ During the Paleo period (c. 11,000 B.C.E. to

¹ While many types of information can inform the precontact settlement of Ontario, such as oral traditions and histories, this summary provides information drawn from archaeological research conducted in southern Ontario over the last century.



9,000 B.C.E.), groups tended to be small, nomadic, and non-stratified. The population relied on hunting, fishing, and gathering for sustenance, though their lives went far beyond subsistence strategies to include cultural practices including but not limited to art and astronomy. Fluted points, beaked scrapers, and graveurs are among the most important artifacts to have been found at various sites throughout southern Ontario, and particularly along the shorelines of former glacial lakes. Given the low regional population levels at this time, evidence concerning Paleo-Indian period groups is very limited (C. J. Ellis & Deller, 1990).

Moving into the Archaic period (c. 9,000 B.C.E. to 1,000 B.C.E.), many of the same roles and responsibilities continued as they had for millennia, with groups generally remaining small, nomadic, and non-hierarchical. The seasons dictated the size of groups (with a general tendency to congregate in the spring/summer and disperse in the fall/winter), as well as their various sustenance activities, including fishing, foraging, trapping, and food storage and preparation. There were extensive trade networks which involved the exchange of both raw materials and finished objects such as polished or ground stone tools, beads, and notched or stemmed projectile points. Furthermore, mortuary ceremonialism was evident, meaning that there were burial practices and traditions associated with a group member's death (C. J. Ellis et al., 2009; C. J. Ellis & Deller, 1990).

The Woodland period (c. 1,000 B.C.E. to 1600 C.E.) saw several trends and aspects of life remain consistent with previous generations. Among the more notable changes, however, was the introduction of pottery, the establishment of larger occupations and territorial settlements, incipient horticulture, more stratified societies, and more elaborate burials. Later in this period, settlement patterns, foods, and the socio-political system continued to change. A major shift to agriculture occurred in some regions, and the ability to grow vegetables and legumes such as corn, beans, and squash ensured long-term settlement occupation and less dependence upon hunting and fishing. This development contributed to population growth as well as the emergence of permanent villages and special purpose sites supporting those villages. Furthermore, the socio-political system shifted from one which was strongly kinship based to one that



involved tribal differentiation as well as political alliances across and between regions (Birch et al., 2021; Dodd et al., 1990; C. J. Ellis & Deller, 1990; Williamson, 1990).

The arrival of European trade goods in the sixteenth century, Europeans themselves in the seventeenth century, and increasing settlement efforts in the eighteenth century all significantly impacted traditional ways of life in Southern Ontario. Over time, war and disease contributed to death, dispersion, and displacement of many Indigenous peoples across the region. The Euro-Canadian population grew in both numbers and power through the eighteenth and nineteenth centuries and treaties between colonial administrators and First Nations representatives began to be negotiated.

The Study Area is within the lands of the Crawford's Purchases and Williams Treaties.

The Crawford's Purchases of 1783 and 1784 are controversial agreements between the Crown and the Mississauga for land along the north shore of Eastern Lake Ontario and the St. Lawrence River from the Trent River to Jones Creek near Brockville, including Prince Edward County (Ministry of Indigenous Affairs, 2020). The purchase was designed to provide land for displaced Loyalists who fought for the British during the American Revolution. As compensation for the loss of homelands south of Lake Ontario and for their allegiance to Britain, the Crown granted the Haudenosaunee lands along the north shore of the lake. These lands have been reduced over the years and it is now known as Tyendinaga Mohawk Territory (Boileau, 2020).

Superintendent General of Indian Affairs Sir John Johnson assigned Captain William Redford Crawford to conduct the negotiations. Chief Mynass, a Mississauga chief living near Kanesatake was among the Indigenous representatives and the British claimed that he had control the lands from the St. Lawrence River to the Ottawa River, which were subsequently ceded to the



Crown during the negotiations (Boileau, 2020). No representatives from the Algonquin were present at the negotiations.

On October 9, 1783, Crawford noted he bought “all the lands from the Toniata or Onagara River [Jones Creek near Brockville] to a river [Trent River] in the Bay of Quinte...including all the Islands,” and extending back from the lake “as far as a man can travel in a day” for goods “that all the families belonging to them shall be clothed and that those that have not fusees [flintlock muskets] shall receive new ones, some powder and ball for their winter hunting, as much coarse red cloth as will make about a dozen coats and as many laced hats” (Boileau, 2020). This was not a formal treaty, and no surviving copies to a deed for transfer exist. Ongoing British obligations characteristic of a treaty such as annual payments or gifts were not included in this agreement (Boileau, 2020).

To clarify this, in October and November of 1923, the governments of Canada and Ontario, chaired by A.S. Williams, signed treaties with the Chippewa and Michi Saagiig for three large tracts of land in central Ontario and the northern shore of Lake Ontario, the last substantial portion of land in southern Ontario that had not yet been ceded to the government (Crown-Indigenous Relations and Northern Affairs, 2013).

In 2018 the Government of Canada reached a settlement with the Williams Treaties First Nations reaffirming the recognized Treaty harvesting rights in the Williams Treaties territories of each of the seven nations.

3.3 Historical Euro-Canadian Township Survey and Settlement

The first Europeans to arrive in the area were transient merchants and traders from France and England, who followed Indigenous pathways and set up trading posts at strategic locations along the well-traveled river routes. All of these occupations occurred at sites that afforded both natural landfalls and convenient access, by means of the various waterways and overland trails, into the



hinterlands. Early transportation routes followed existing Indigenous trails that typically followed the highlands adjacent to various creeks and rivers (Archaeological Services Inc., 2006). Early European settlements occupied similar locations as Indigenous settlements as they were generally accessible by trail or water routes and would have been in locations with good soil and suitable topography to ensure adequate drainage.

Historically, the study area is located in the Township of Murray, County of Northumberland in Lots 1 and 2, Concession 1 and Lots 1-8 in Concession A.

3.3.1 Township of Murray

Murray Township was first surveyed in 1791 and then again in 1796. It was named after James Murray, a distinguished British soldier who took part in the siege of Quebec in 1759 and became Governor of Quebec in 1760. The township was settled early by United Empire Loyalists. Among those who received grants along the broken front were Hugh McQuaid, Captain Bullock, Thomas Potts, Thomas Smith, Rolph Bell, Asa Weller, and many others. Asa Weller opened a tavern at Carrying Place and also kept a sled and oxen to convey passengers up the lake shore. Once heavily wooded with pine and other hardwood, the township today is primarily a farming district with excellent pasture for dairy herds (Mika & Mika, 1981).

3.3.2 Trenton

Trenton was incorporated as a village in 1853, a town in 1880, and then as a city on July 1, 1980.

The first settlers arrived at the mouth of the Trent River in the 1790s. Known as the gateway to the Trent-Severn Waterway, the site was first called Trent Port, then Trentown, and finally Trenton. The area had a prominent lumber industry due to the canal development. The largest sawmill was owned by the Gilmour Company. This plant, after many years of prosperity, burned to the ground in 1910. During World War I the major industry was the munitions plant of the



British Chemical Company, which was levelled by explosions in 1918. An attempt was made to turn the town into a film production centre in the 1920s, but only a handful of films were ever produced. Trenton was chosen as the centre for the Royal Canadian Air Force and functioned in World War II as a training base for Commonwealth pilots. On January 1, 1998, it became a part of the new city of Quinte West (Stortz, 2015).

3.3.3 Trent-Severn Waterway

Planning of the Trent-Severn Waterway began as early as 1785, initially as a means of transporting commercial and military goods between Lake Ontario into the Upper Great Lakes while avoiding the border with the United States as a safeguard during periods of hostility. Construction began with a lock at Bobcaygeon in 1833. Construction continued intermittently depending on the federal governments in power, and as popular support and funding allowed. The entire 387 km route between the outlet of the Trent River in Trenton on Lake Ontario, and Port Severn in Georgian Bay (Lake Huron) was completed in 1920 (Legget, 2015; Libraries and Archives Canada, 2005; Parks Canada, 2017).

The waterway predominantly follows a series of natural lakes and rivers, supplemented by artificial canals, passing generally northwest from Lake Ontario through the Trent River, Rice Lake, Otonabee River, the Kawartha Lakes, Lake Simcoe, Lake Couchiching, Severn River, and into Georgian Bay. The waterway is accessed by a total of 44 locks, 75 control dams, 15 swing bridges, and two marine railways at Big Chute. While originally conceived as a commercial and military transportation route, the waterway now primarily serves recreational boaters (Legget, 2015; Libraries and Archives Canada, 2005; Parks Canada, 2017).

3.3.4 Canadian Northern Railway and the Millennium Trail

The Canadian Northern Railway Company (C.No.R.) was founded in 1899 by William Mackenzie and Donald Mann, two former Canadian Pacific Railway employees. In 1896, Mackenzie and Mann introduced service into Northern Manitoba, and by 1902, had rail lines connecting to Edmonton in the west and



Port Arthur (present-day Thunder Bay) in the east. By 1903, the Company was also operating in Quebec and Nova Scotia. In 1908, the rail line was completed between Toronto and Port Arthur via Sudbury. The railway continued its expansion, and by 1915 the Canadian Northern was a transcontinental line connecting Quebec City to Vancouver with a total of 16,093 kilometres of track (Library and Archives Canada 2014; Peltenburg 2019).

Strong competition with the Grand Trunk Railway (G.T.R.) and the Canadian Pacific Railway led to the company's bankruptcy in 1918. In 1923 the Canadian Northern Railway was incorporated by the Canadian National (C.N.) Railways, with the former C.No.R. lines forming a major component of the C.N. network. The G.T.R. was also assumed by the C.N. in 1923, and duplicate rail lines were eliminated where they existed. As the G.T.R.'s line along the Lake Ontario waterfront was in better condition than the C.No.R.'s line that entered Toronto through the Don Valley, the C.No.R. line was eventually abandoned in favour of the G.T.R. line (Library and Archives Canada 2014; Peltenburg 2019).

In 1993, Quinte West began the process of regenerating Trent Riverfront and developed the abandoned railway lines into the multi-purpose recreational Millennium Trail it is today (Great Lakes Waterfront Trail, 2018).

3.3.5 Prince Edward County Railway/Central Ontario Railway Company

In 1873, the residents of Prince Edward County wanted a rail connection to the mainland so County Council offered a subsidy to Charles Bockus and Colonel Walter Ross to build a line from Trenton to the small fishing village of Long Point. Due to a stock market crash and following depression, construction on the line was delayed until 1879. The new Prince Edward County Railway (P.E.C.R.) opened that same year and extended for 50 kilometres from Picton to Trenton Junction (Figure 2), where it connected to the Grand Trunk Railway. In 1881 the line was sold to a group of American financiers, who quickly reorganized the company and, in 1882, renamed it the Central Ontario Railway Company (C.O.R.). One of these



wealthy financiers was the controversial figure George McMullen who, though Canadian-born, was a strong proponent of annexation to the United States and had been involved in the railway bribery scandal which brought down Macdonald's Conservative government in 1873. This group of financiers would quickly fall out with one another resulting in a series of lawsuits between the members that would plague the company for the remainder of its existence, eating up much of its resources (Canada Rail, n.d.; TrainWeb, 1998).

Despite the turmoil in upper management, in the following decades the C.O.R. expanded considerably, extending the line in 1884 another 115 kilometres to the Coe Hill iron mine. In the 1890s, several subsidiaries owned by the C.O.R. were granted authority to build lines connecting to several other mining ventures including the Marmora Mine, where they formed the Marmora Railway and Mining Company. In 1900, the C.O.R. extended further from Ormsby Junction (Coe Hill) to Bancroft and then further to Maynooth in 1907. In 1909, the C.O.R. was purchased by Mackenzie and Mann of the Canadian Northern Railway as a feeder line to their Toronto-Ottawa route. Eventually, all of the Canadian Northern lines would come under the control of Canadian National Railways. (Canada Rail, n.d.; TrainWeb, 1998).





Figure 2: Central Ontario Railway brochure from the early 1900s (Library and Archives Canada).

3.4 Review of Historical Mapping

The 1878 *Illustrated Historical Atlas of the Counties of Northumberland and Durham* (Belden, 1878) was examined to determine the presence of historical features within the study area during the nineteenth century (Figure 3).

Historically, the study area is located on Lots 1-8, Concession A in the Township of Murray, County of Northumberland. Mapping from the late 1800s shows Lots 1 and 2, Concession A now forming part of the incorporated Village of Trenton within Hastings County.

It should be noted, however, that not all features of interest were mapped systematically in the Ontario series of historical atlases. For instance, they were

often financed by subscription limiting the level of detail provided on the maps. Moreover, not every feature of interest would have been within the scope of the atlases. The use of historical map sources to reconstruct or predict the location of former features within the modern landscape generally begins by using common reference points between the various sources. The historical maps are geo-referenced to provide the most accurate determination of the location of any property on a modern map. The results of this exercise can often be imprecise or even contradictory, as there are numerous potential sources of error inherent in such a process, including differences of scale and resolution, and distortions introduced by reproduction of the sources.

Mapping from the nineteenth century shows the study area to be within a generally rural agricultural context. The eastern portion of the study area is not shown in detail in this mapping as the incorporated Village of Trenton fell within the boundaries of Hastings County at this time, and this portion of the study area is not covered in the nineteenth century mapping included in this report. Highway 2, 2nd Dug Hill Road, Dufferin Avenue, Fraser Park Drive, and Quinte Street are all depicted in this mapping as historically surveyed roads. There are two structures, just outside of the study area on the north and south side of Highway 2 and one structure within the study area on 2nd Dug Hill Road, just northeast of the point where the three alignments converge (Figure 3).

In addition to nineteenth-century mapping, historical topographic mapping and aerial photographs from the twentieth century were examined. This report presents maps and aerial photographs from 1932, 1954, 1963, and 1991 (Figure 4 to Figure 7). These do not represent the full range of maps consulted for the purpose of this study but were judged to cover the full range of land uses that occurred in the area during this period.

The topographic map from 1932 shows most of the study area continuing in a rural agricultural context. Development is evident around Highway 2, which is now depicted, along with Dufferin Avenue, as a paved, 20-foot-wide road. Two rail lines are now shown following the shoreline, both labeled as belonging to



Canadian National Railways. Hanna Park is depicted in this mapping, north of the rail lines. The area east of Queen Street, now occupied by the Quinte West Public Library and the Trent Port Marina and O.G. Buster Alyea Park are depicted in this mapping as railyards with one of the lines extending to the bank of the Trent River, just south of present-day Fraser Park (Figure 4).

Aerial photographs from 1954 show very little change in the western portions of the study area which continues to be in active agricultural use. The northernmost of the two rail lines shown in this photograph now appears to end at 2nd Dug Hill Road and does not continue west. The railway through the area east of Queen Street now terminates just south of Quinte Street at a greenspace in the location of present-day Fraser Park (Figure 5).

The 1963 topographic map shows very little change with the study area. 2nd Dug Hill Road is now depicted as a loose or stabilized surface, all-weather road, of two lanes or more. The sections of track on the northernmost rail line, east of 2nd Dug Hill Road are now labeled as abandoned. Hanna Park is depicted in this mapping, though it does not extend as far west as it does today. A park is also depicted at the location of Fraser Park with similar boundaries to the present park. A square structure is shown at the location of the Trenton Veteran's Memorial (Figure 6).

The topographic map from 1991 depicts both Highway 2 and Dufferin Avenue as hard surface, all season roads with Highway 2 having two lanes and Dufferin Avenue with two or more lanes. A roadway is shown following a similar alignment to Creswell Drive. The previously abandoned length of track east of 2nd Dug Hill Road is not shown in this mapping. In this mapping a small waterway is depicted following a similar alignment to Proposed Sewer Alternative B between 2nd Dug Hill Road and Hanna Park. Hanna Park and Fraser Park are both shown with similar boundaries to the present day, and the area west of Hanna Park is labeled as the Trenton Escarpment Conservation area. Where the railway crosses Dufferin Avenue structures on the northwest and southeast corners are in similar positions to extant industrial structures. A park is depicted at the site of present-day Bayshore Park (Figure 7).



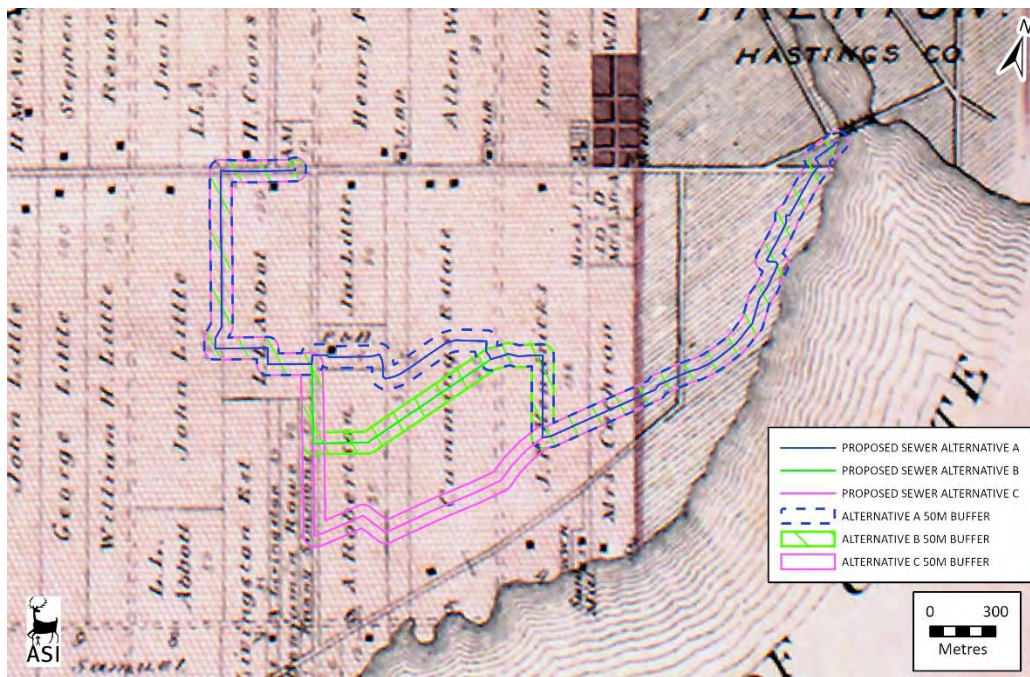


Figure 3: The study area overlaid on the 1878 *Illustrated Historical Atlas of the Counties of Northumberland and Durham* (Base map: Belden, 1878).

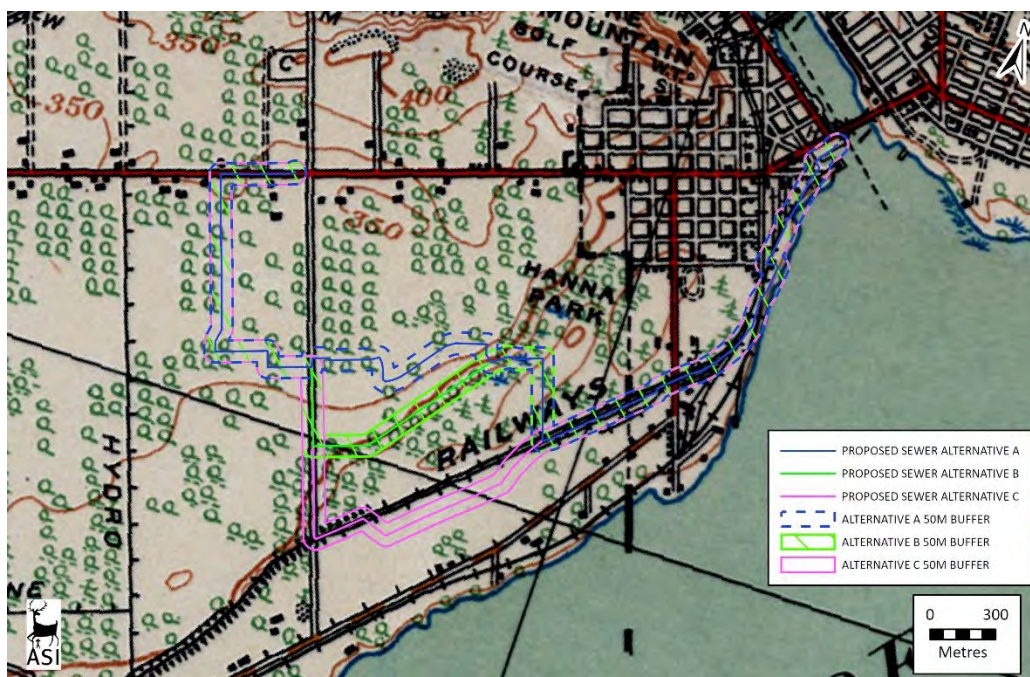


Figure 4: The study area overlaid on the 1932 topographic map of Trenton (Department of National Defence, 1938).

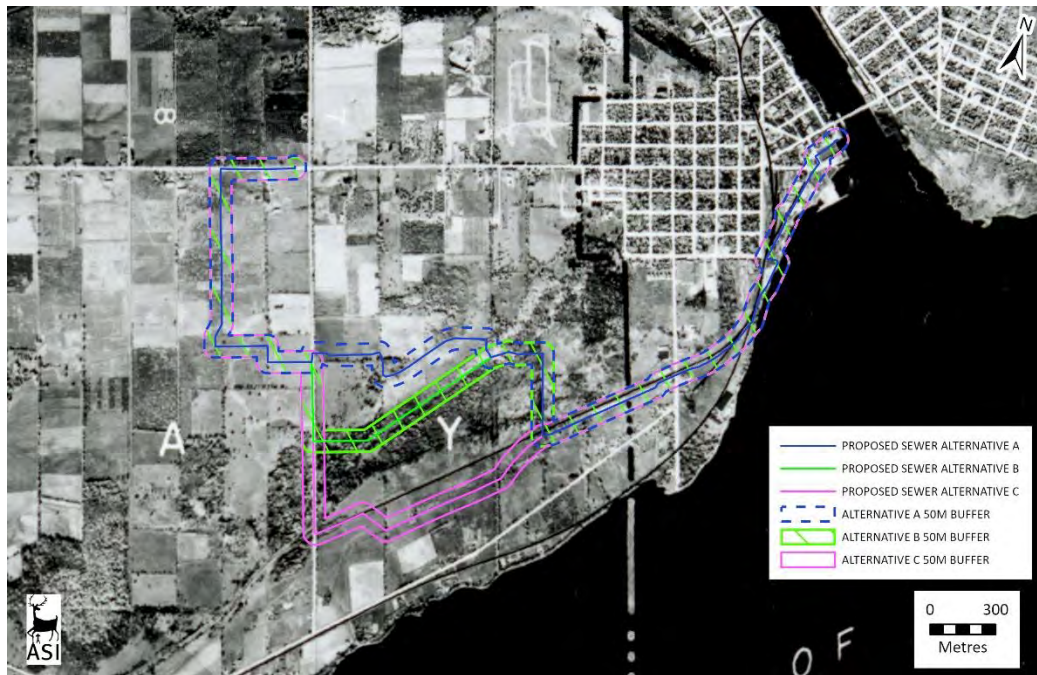


Figure 5: The study area overlaid on a 1954 aerial photograph (Base map: Hunting Survey Corporation Limited, 1954).

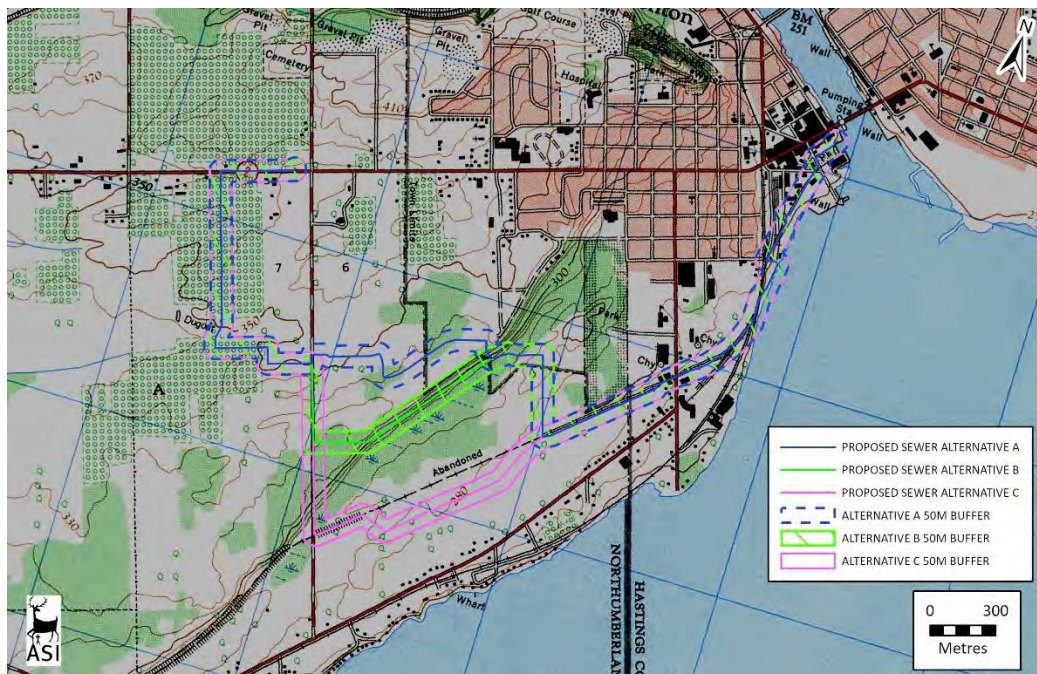


Figure 6: The study area overlaid on the 1963 topographic map of Trenton (Base map: Department of Energy, Mines and Resources, 1963).

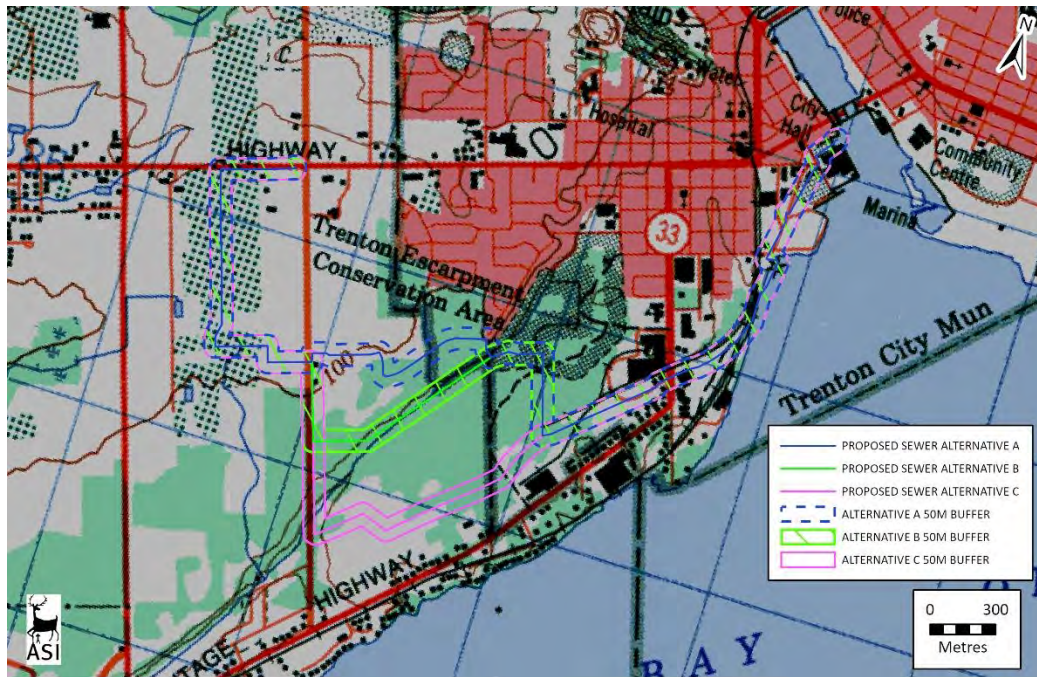


Figure 7: The study area overlaid on the 1991 topographic map of Trenton (Base map: Energy, Mines and Resources Canada, 1991).

4.0 Existing Conditions

A field review of the study area was undertaken by Leora Bebko of Archaeological Services Inc., on 14 April 2023 to document the existing conditions of the study area from existing rights-of-way. The existing conditions of the study area are described below and captured in Plate 1 to Plate 21.

4.1 Description of Field Review

For approximately the first two kilometres (traveling east to west) Proposed Sewer Alternatives A, B, and C follow the same alignment. The eastern terminus of the three alternatives is along the southern end of the Fraser Park Marina's parking lot on the east bank of the Trent River (Plate 1). From there the three alternatives follow the northern boundary of Fraser Park, on the south side of the Fraser Park Drive. Fraser Park Drive is a two-lane roadway generally bound by parking lots on the north side at the rear of commercial businesses. On the south side there is a sidewalk, which is separated from Fraser Park by decorative iron

fencing and a line of trees (Plate 2). Fraser Park is a rectangular park with several pedestrian walkways, gardens, a bandshell, and memorial gates at the west entrance (Plate 3). At the western boundary of the park, the three alignments angle southeast, traveling between Fraser Park and the Trenton Veteran's Memorial located at the intersection of Fraser Park Drive and Quinte Street (Plate 4).

Near the eastern corner of the veteran's memorial, the three alignments angle southwest, crossing Quinte Street and following the western edge of the parking lot for the Quinte West Public Library. The southeast corner of the intersection of Quinte Street and the parking lot access road is occupied by a Royal Canadian Legion Hall. The west sides of the access road and the library parking lot are generally occupied by the rear parking lots of commercial buildings fronting Quinte Street and Creswell Drive. The Quinte West Public Library building sits approximately 40-50 metres east of the path of the three proposed alignments (Plate 5 and Plate 6).

The three proposed alignments join Creswell Drive at the entrance to the Trent Port Marina and follow Creswell Drive southwest for approximately 220 metres to the access road for the city parking lot. Creswell Drive is a two-lane road with a sidewalk on the east side. On the west side of this portion of the road is an open grassy field and on the east is the Trent Port Marina and Og Buster Alyea Park (Plate 7). At the south end of the park, the three alignments veer to the east along a pedestrian access path to the Millennium Trail which they follow southwest along the shore of the Bay of Quinte for approximately 300 metres. The Millennium Trail is a paved, public recreational trail which follows the former Prince Edward County/Central Ontario Railway alignment along the shoreline of the Bay of Quinte. Public exercise equipment is on the north side near the pedestrian access path (Plate 8).

After following the Millennium Trail south for approximately 300 metres, the three alignments veer southwest along a wooded trail in a former Canadian Northern Railway alignment toward Dufferin Avenue (Plate 9). Where the three



alternatives cross Dufferin Avenue, it is a two-lane road within a generally industrial neighbourhood. An industrial building containing the Quinte Museum of Natural History is at the southeast corner, a small industrial building and a residence occupy the southwest corner, and a large factory occupies the northwest corner (Plate 10 and Plate 11). The three alignments continue in a southwest direction for approximately 580 metres along the former railway alignment, at which point Proposed Sewer Alternatives A and B branch off to the north along the western boundary of Hanna Park (Plate 12).

Proposed Sewer Alternatives A and B continue north following a wooded recreational trail for approximately 370 metres (Plate 13) before veering west for approximately 240 metres at which point alternative A branches off from Alternative B, heading northward toward Parkview Heights. Alternative A follows Parkview Heights in a generally southwesterly direction for approximately 500 metres. Parkview Heights is a residential street within a suburban residential development with detached residences on both sides (Plate 14).

At the western end of Parkview Heights, Alternative A follows Sunshine Lane north approximately 100 metres to Crews Crescent. Sunshine Lane and Crews Crescent are both residential streets within a new urban development (parts of which were still under construction at the time of field review) and are generally bound on both sides with detached residences. There are sidewalks on the east side of Sunshine Lane and the north side of Crews Crescent (Plate 15). At Crews Crescent, Alternative A veers west again, following the roadway for approximately 240 metres, to where the road turns north at which point Alternative A passes between the residences at 33 and 35 Crews Crescent to meet 2nd Dug Hill Road (Plate 16). At 2nd Dug Hill Road, Alternative A rejoins Alternatives B and C.

Proposed Sewer Alternative B, from where it branches off Alternative A, continues southwest through a forested area for approximately 920 metres before meeting Proposed Sewer Alternative C at 2nd Dug Hill Road. This portion of the alignment could not be reviewed as it was not accessible or visible from public rights-of-way.



Proposed Sewer Alternative C, from the point where Alternative A and B branch off to the north, continues in a generally southwest direction for approximately 1.2 kilometres through a wooded area. This portion of Alternative C passes through an area that appears to have been recently cleared of trees (Plate 17). Debris from the clearing made this portion of the alignment inaccessible for review.

Alternative C meets 2nd Dug Hill Road approximately 450 metres north of Carrying Place Road/Loyalist Parkway (Plate 18). Alignment C continues north on 2nd Dug Hill Road for approximately 415 metres, where it is joined by Alternative B. Alternatives B and C continue north on 2nd Dug Hill Road for approximately 360 metres where they rejoin Alternative A. This section of 2nd Dug Hill Road is a two-lane rural road with gravel shoulders. It is generally bound on both sides by wooded areas and agricultural properties (Plate 19). At the north end of this section of road, the west side is occupied by a residential housing development.

Alternatives A, B, and C converge at the intersection of Cedar Park Crescent and 2nd Dug Hill Road (Plate 20). Cedar Park Crescent is a residential road within a small housing development which was under construction and inaccessible during field review. All three alignments follow Cedar Park Crescent west for approximately 190 metres before jogging north slightly and continuing west for approximately 240 metres through agricultural fields. All three alignments then veer north through more agricultural fields for approximately 800 metres, where they meet Highway 2. The three alignments then follow Highway 2 east for approximately 330 metres, terminating just west of the intersection with 2nd Dug Hill Road. Highway 2, in this area, is a four-lane road with a sidewalk on the north side. There are agricultural fields on the south side of the road and the north side of occupied by the parking lot for a big-box store (Plate 21).





Plate 1: The western terminus of proposed Sewer Alternatives A, B, and C at the south end of the Fraser Park Marina Parking Lot, looking northeast (A.S.I., 2023).



Plate 2: Fraser Park Drive, looking southwest from the Fraser Park Marina Parking Lot (A.S.I., 2023).



Plate 3: The northern boundary of Fraser Park, looking southwest (A.S.I., 2023).



Plate 4: Park area between Fraser Park (left) and the Trenton Veteran's Memorial (right), looking southeast toward the Bay of Quinte (A.S.I., 2023).



Plate 5: The western edge of the parking lot for the Quinte West Public Library, looking north (A.S.I., 2023).



Plate 6: The Quinte West Public Library and parking lot, looking northeast. The Trenton Veteran's Memorial is visible in the distance on the left (A.S.I., 2023).



Plate 7: Creswell Drive, looking southwest from the entrance to Trent Port Marina (A.S.I., 2023).



Plate 8: The Millennium Trail, looking south from the pedestrian access path (A.S.I., 2023).



Plate 9: The wooded trail in the former Canadian Northern Railway alignment off the Millennium Trail, looking southwest (A.S.I., 2023).



Plate 10: Looking northeast from Dufferin Avenue where Alternatives A, B, and C cross the roadway (A.S.I., 2023).



Plate 11: Looking southwest from Dufferin Avenue where Alternatives A, B, and C cross the roadway (A.S.I., 2023).



Plate 12: Looking northeast along the former Canadian Northern Railway alignment from the point where Alternatives A and B branch off at the western boundary of Hanna Park (A.S.I., 2023).



Plate 13: The path of Alternatives A and B, looking north on the west side of Hanna Park (A.S.I., 2023).



Plate 14: Looking southwest on Parkview Drive from west of Trip Boulevard (A.S.I., 2023).



Plate 15: Looking west on Crews Crescent (A.S.I., 2023).



Plate 16: Looking from 2nd Dug Hill Road east to Crews Crescent (A.S.I., 2023).



Plate 17: Looking west toward cleared area along the route of Alternative C (A.S.I., 2023).



Plate 18: Looking east at the point where Alternative C meets 2nd Dug Hill Road (A.S.I., 2023).



Plate 19: Looking north on 2nd Dug Hill Road from the point where Alternative C meets the roadway and heads north (A.S.I., 2023).



Plate 20: Looking south on 2nd Dug Hill Road toward the point where Alternatives A, B, and C converge (A.S.I., 2023).





Plate 21: Looking east on Highway 2 toward the intersection with 2nd Dug Hill Road (A.S.I., 2023).


4.2 Identification of Known and Potential Built Heritage Resources and Cultural Heritage Landscapes


Based on the results of the background research and field review, two commemorative features (C.F.), one known cultural heritage landscape (C.H.L.), four potential C.H.L.s, one known built heritage resource (B.H.R.), and two potential B.H.R.s were identified within the study area. A detailed inventory of these known and potential features within the study area is presented below in Table 1, with mapping depicting their location in Figure 8 to Figure 12.


Table 1: Inventory of Known and Potential Built Heritage Resources and Cultural Heritage Landscapes within the Study Area


Feature I.D.	Type of Property/ Feature	Address or Location	Heritage Status and Recognition	Description of Property and Known or Potential C.H.V.I.	Photographs/ Digital Image
C.F. 1	Memorial Tree and Plaque Civic Memorial Tree	Compass Court (Fraser Park Drive)	Commemorative Plaque – Identified during background research/field review	<p>This memorial tree and commemorative plaque are located in Compass Court at the southeast corner of Fraser Park Drive and Dundas Street East on the east bank of the Trent River.</p> <p>The memorial tree is a Crimson King Maple tree. The plaque commemorates the planting of the Civic Memorial Tree, planted at Thanksgiving in 1998 in recognition of the incorporation of the municipality in that year. The plaque also recognizes the civic responsibility shown by citizens and city staff in recovering from the devastation caused by a severe ice storm in that same year.</p>	 <p>Plate 22: The commemorative plaque in Compass Court on Fraser Park Drive (A.S.I., 2023).</p>


Feature I.D.	Type of Property/ Feature	Address or Location	Heritage Status and Recognition	Description of Property and Known or Potential C.H.V.I.	Photographs/ Digital Image
C.F. 2	Plaque Champlain’s War Party 1615	Bayshore Park (8 Albert Street)	Commemorative Plaque – Included in Inventory of Provincial Plaques Across Ontario	<p>This commemorative plaque is located in Bayshore Park, behind the Legion Hall.</p> <p>The plaque commemorates Champlain’s War Party (1615) in which a small group of Frenchmen led by Samuel de Champlain and 500 Huron (Wendat) people traveled down the Trent River enroute to attacking an Iroquois (Haudenosaunee) settlement near present-day Syracuse New York. The attack was unsuccessful and led to increased hostility between the Five Nations (Mohawk, Oneida, Onondaga, Cayuga, and Seneca) and the French at the time.</p>	 <p>Plate 23: The commemorative plaque Bayshore Park (A.S.I., 2023).</p>


Feature I.D.	Type of Property/ Feature	Address or Location	Heritage Status and Recognition	Description of Property and Known or Potential C.H.V.I.	Photographs/ Digital Image
C.H.L. 1	Waterway The Trent-Severn Waterway	The Trent River	Known C.H.L. – National Historic Site of Canada	<p>The Trent River runs from Rice Lake in a meandering path northeast then generally south to empty into the Bay of Quinte in the City of Quinte West.</p> <p>The Trent-Severn Waterway was named a National Historic Site of Canada due to being part of Canada’s national system of canals. Previously identified heritage attributes include its completeness as a transportation route developed by the Canadian government in the early twentieth century, the engineering features (locks, dams, bridges, etc.), and cultural heritage landscapes related to themes of water power, recreation, natural features, and the waterway’s varied uses. It contains many features with their own heritage designation including the Peterborough Lift Lock National Historic Site of Canada. A full statement of cultural heritage value and character defining elements can be found in the Parks Canada Directory of Federal Heritage Designations.</p>	 <p>Plate 24: The Trent River, looking southeast toward the Bay of Quinte (A.S.I., 2023).</p>


Feature I.D.	Type of Property/ Feature	Address or Location	Heritage Status and Recognition	Description of Property and Known or Potential C.H.V.I.	Photographs/ Digital Image
C.H.L. 2	Park Fraser Park	Fraser Park Drive	Potential C.H.L. – Identified during background research and field review	<p>This C.H.L. is located on the south side of Fraser Park Drive.</p> <p>This C.H.L. contains a public park. Potential heritage attributes include the park’s landscaping and gardens, the “Ted Snider Bandshell”, waterfront viewscape, walking paths, iron border fence, and memorial gates.</p>	<div></div> <p>Plate 25: Fraser Park walking paths and central garden. The iron border fence is visible on the right (A.S.I., 2023).</p>


Feature I.D.	Type of Property/ Feature	Address or Location	Heritage Status and Recognition	Description of Property and Known or Potential C.H.V.I.	Photographs/ Digital Image
					<div></div> <p>Plate 26: The Fraser Park Memorial Gates at the western entrance to the park. The “Ted Snider Bandshell” is visible, just right of centre (A.S.I., 2023).</p>


Feature I.D.	Type of Property/ Feature	Address or Location	Heritage Status and Recognition	Description of Property and Known or Potential C.H.V.I.	Photographs/ Digital Image
C.H.L. 3	Memorial Trenton Veterans Memorial	Fraser Park Drive and Quinte Street	Potential C.H.L. – Identified during background research and field review	<p>The C.H.L. is located between Fraser Park Drive and Quinte Street in a triangular parkette.</p> <p>This C.H.L. contains a war memorial to veterans of World Wars One and Two and the Korean War. Potential heritage attributes include the memorial cenotaph, cement plinth, memorial stone, flag poles, and landscaping.</p>	 <p>Plate 27: The Trenton Veteran’s Memorial, looking northeast (A.S.I., 2023).</p>

Feature I.D.	Type of Property/ Feature	Address or Location	Heritage Status and Recognition	Description of Property and Known or Potential C.H.V.I.	Photographs/ Digital Image
C.H.L. 4	Recreational Trail Millennium Trail	The former Canadian Northern Railway alignment	Potential C.H.L. – Identified during background research and field review	<p>This C.H.L. follows the former alignment of the Canadian Northern Railway following the shoreline of the Bay of Quinte.</p> <p>This C.H.L. contains a public recreational trail. Potential heritage attributes include the historical associations with the Canadian Northern Railway, the walking trail, landscaping, waterfront views, and recreational amenities.</p>	 <p>Plate 28: The Millennium Trail, looking south from the access point at Creswell Drive (A.S.I., 2023).</p>

Feature I.D.	Type of Property/ Feature	Address or Location	Heritage Status and Recognition	Description of Property and Known or Potential C.H.V.I.	Photographs/ Digital Image
C.H.L. 5	Park Hanna Park	Creswell Drive and Film Street	Potential C.H.L. – Identified during background research and field review	<p>This C.H.L. is located west of Dufferin Avenue and is generally bound by Film Street, McGill Street, Parkside Drive, and wooded areas.</p> <p>This C.H.L. contains a public park with walking trails, tennis courts, playground, and a dog park. Potential heritage attributes include the walking trails, forests, and recreational amenities. This park appears on the 1932 topographic map of Trenton.</p>	<div></div> <p>Plate 29: The entrance to the Hanna Park Trail system (A.S.I., 2023).</p>

Feature I.D.	Type of Property/ Feature	Address or Location	Heritage Status and Recognition	Description of Property and Known or Potential C.H.V.I.	Photographs/ Digital Image
B.H.R. 1	Clock Tower Clock tower from former Post Office	65 Dundas Street West	Known B.H.R. – Designated under Part IV of the <i>Ontario Heritage Act</i> (By-law 79-3652)	<p>This B.H.R. is located on the southern corner of the intersection of Dundas Street West and Albert Street.</p> <p>This B.H.R. is a remnant clocktower from a former post office structure built in 1888 and designed by architect Thomas Fuller. Known heritage attributes include the Romanesque Revival architecture, limestone construction, and its landmark status in the City of Quinte West. Full By-law and Statement of Significance is included in Appendix A.</p>	<div></div> <p>Plate 30: The remnant clocktower at 65 Dundas Street West (A.S.I., 2023).</p>

Feature I.D.	Type of Property/ Feature	Address or Location	Heritage Status and Recognition	Description of Property and Known or Potential C.H.V.I.	Photographs/ Digital Image
					<div><p>Plate 31: A plaque mounted to the door of the clocktower (A.S.I., 2023).</p></div>

Feature I.D.	Type of Property/ Feature	Address or Location	Heritage Status and Recognition	Description of Property and Known or Potential C.H.V.I.	Photographs/ Digital Image
B.H.R. 2	Residence	11-13 McGill Street	Potential BHR – Identified during background research/field review	<p>This B.H.R. is located at the terminus of McGill Street on the south side.</p> <p>This B.H.R. contains a one-and-a-half to two-and-a-half storey Second Empire residence with an irregular footprint including multiple additions. Potential heritage attributes include the building’s mansard roof with dormer windows, central tower, massing, and fenestration,</p>	<div></div> <p>Plate 32: Obstructed view of the residence at 11 McGill Street, looking southwest (A.S.I., 2023).</p>

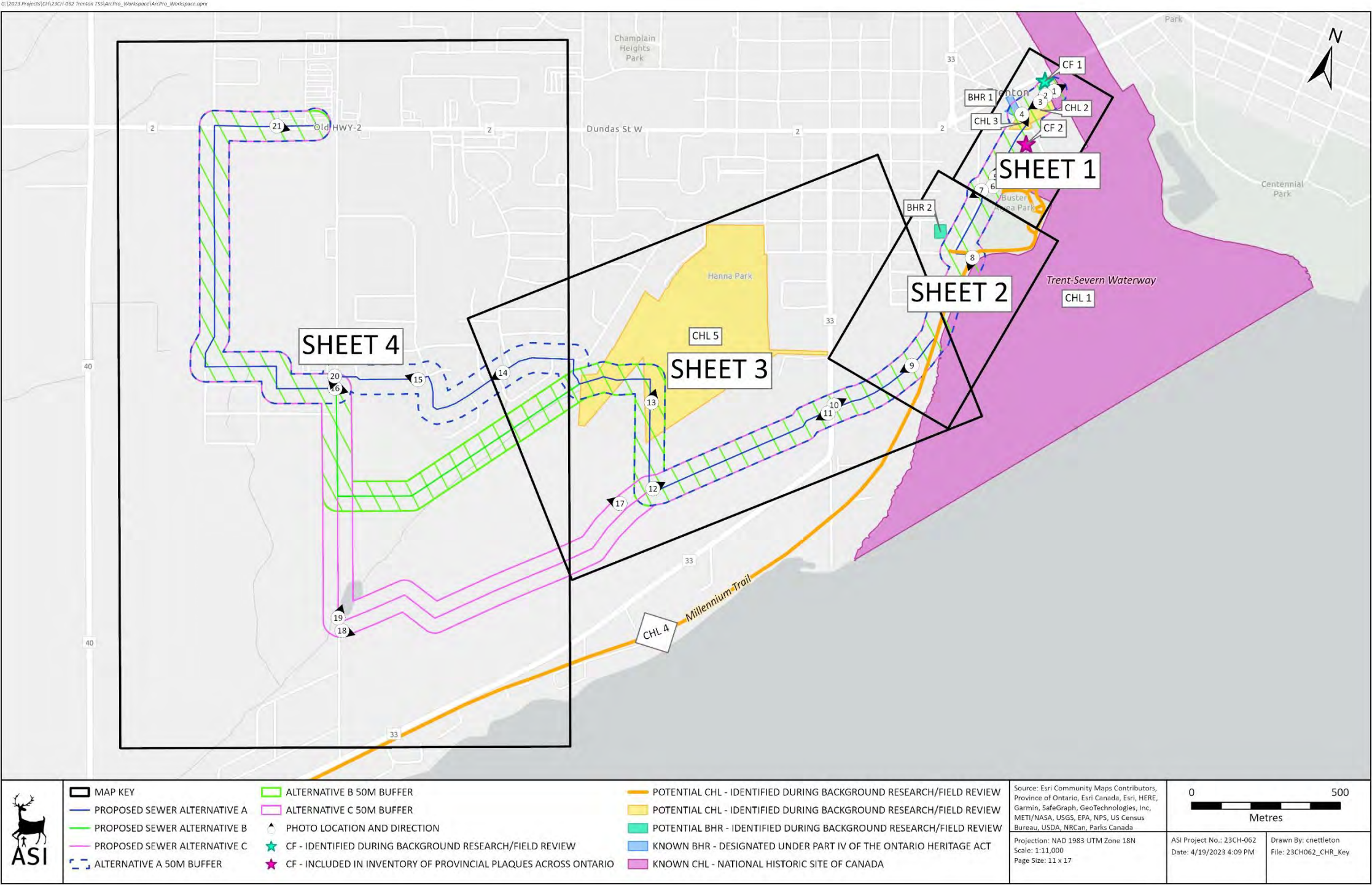


Figure 8: Key Sheet for mapping showing locations of identified commemorative features (C.F.), built heritage resources (B.H.R.), and cultural heritage landscapes (C.H.L.) in the Study Area.



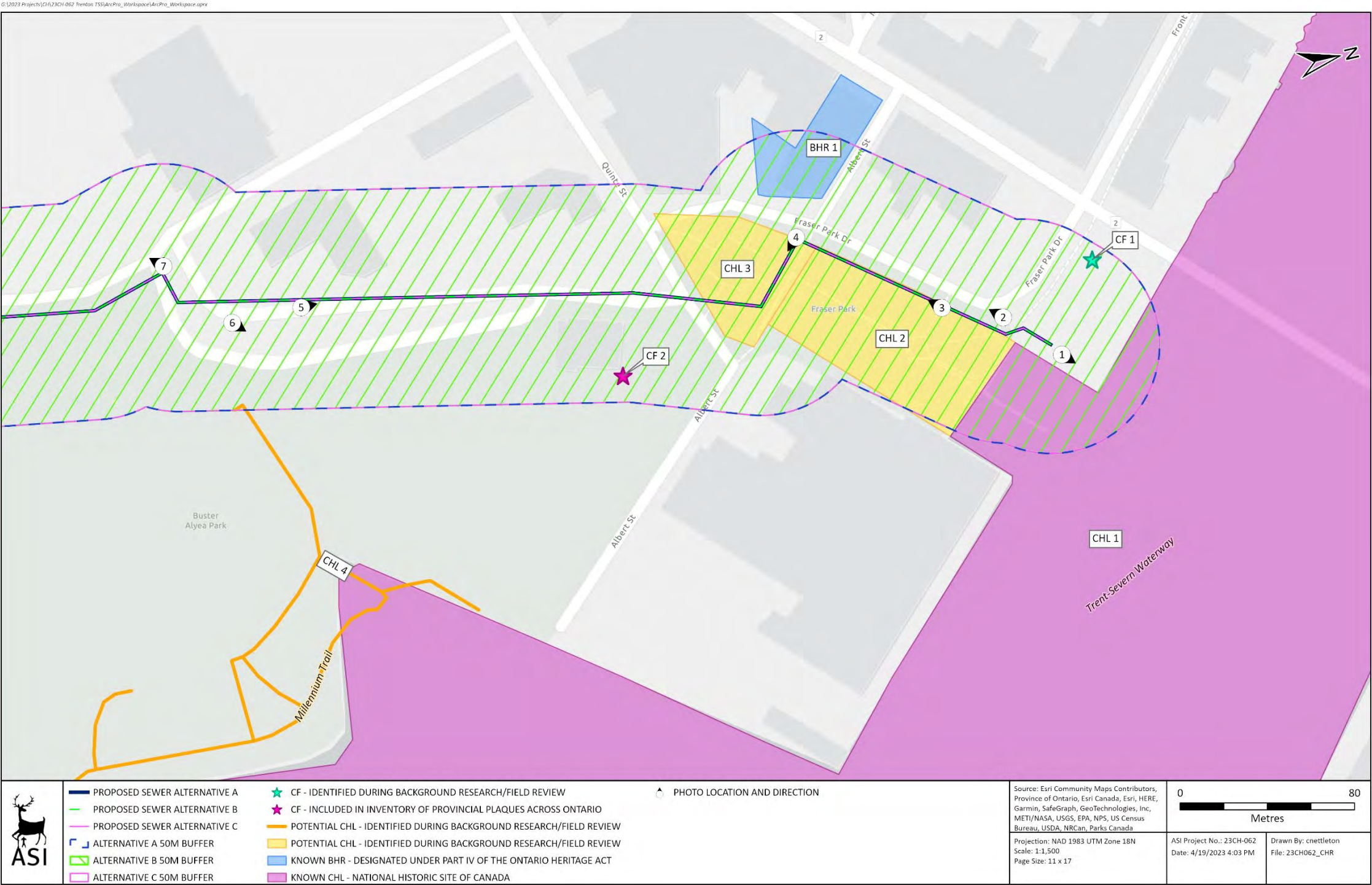


Figure 9: Map showing locations of identified commemorative features (C.F.), built heritage resources (B.H.R.), and cultural heritage landscapes (C.H.L.) in the Study Area (Sheet 1).



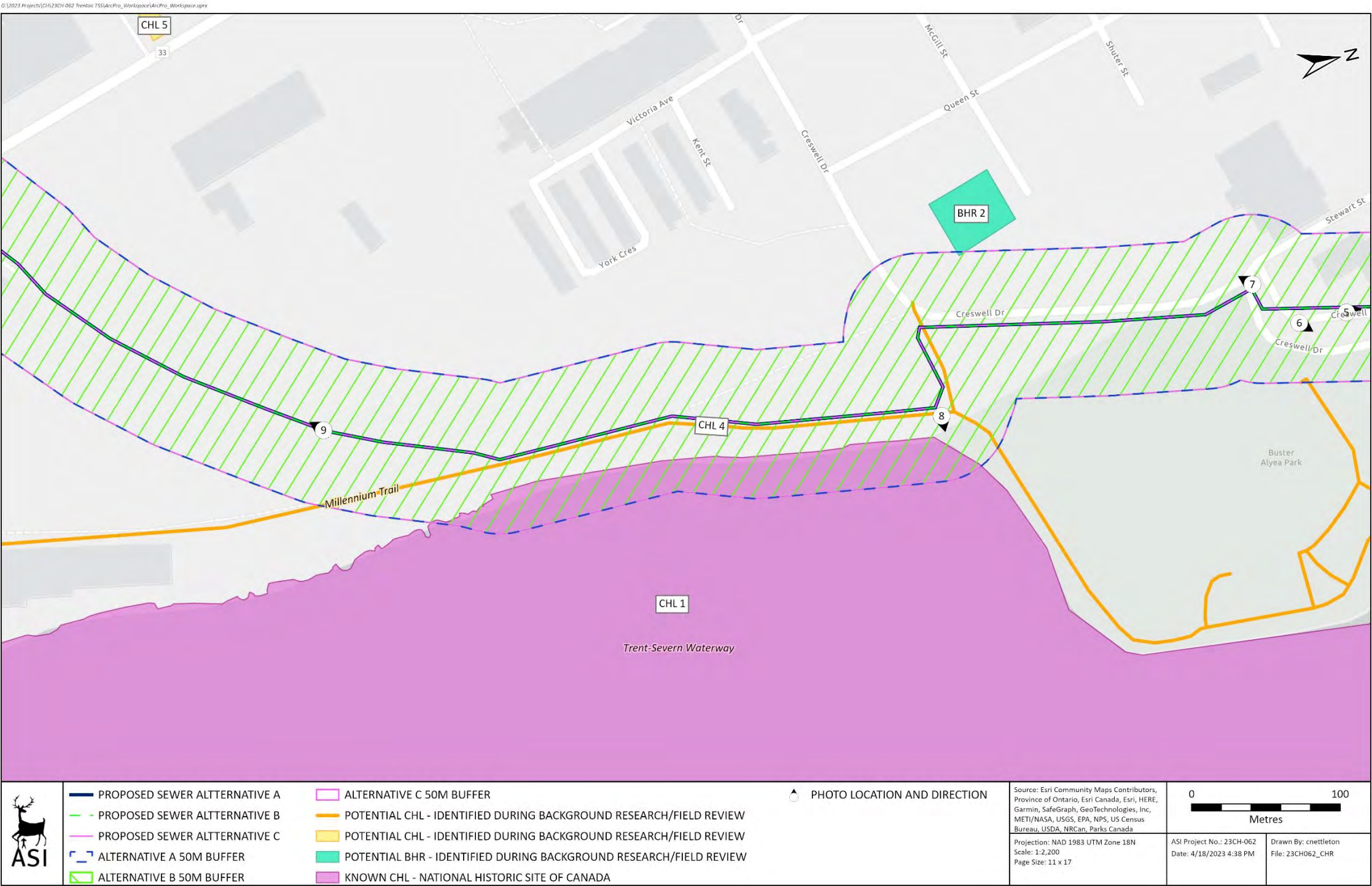


Figure 10: Map showing locations of identified commemorative features (C.F.), built heritage resources (B.H.R.), and cultural heritage landscapes (C.H.L.) in the Study Area (Sheet 2).



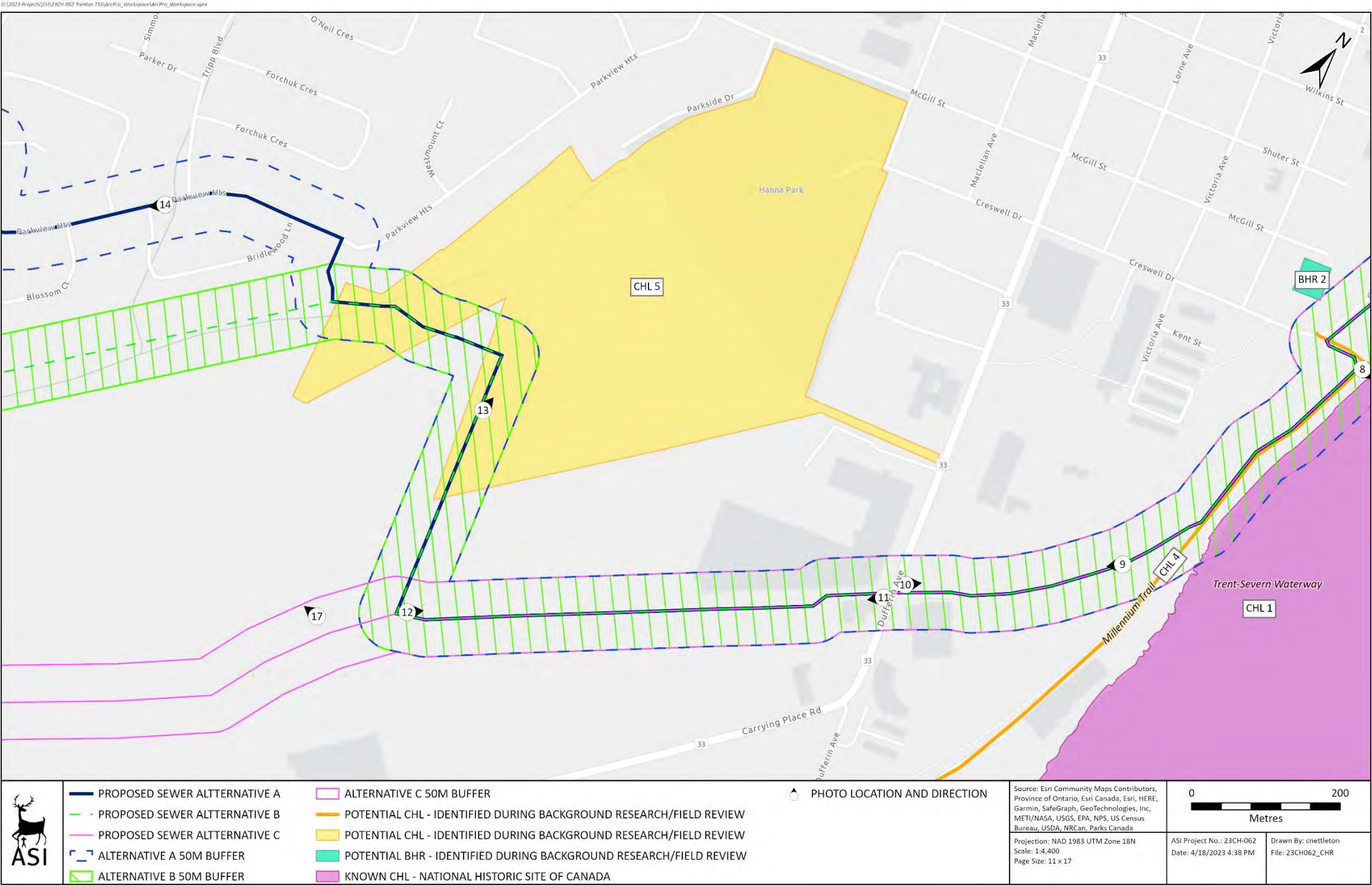


Figure 11: Map showing locations of identified commemorative features (C.F.), built heritage resources (B.H.R.), and cultural heritage landscapes (C.H.L.) in the Study Area (Sheet 3).



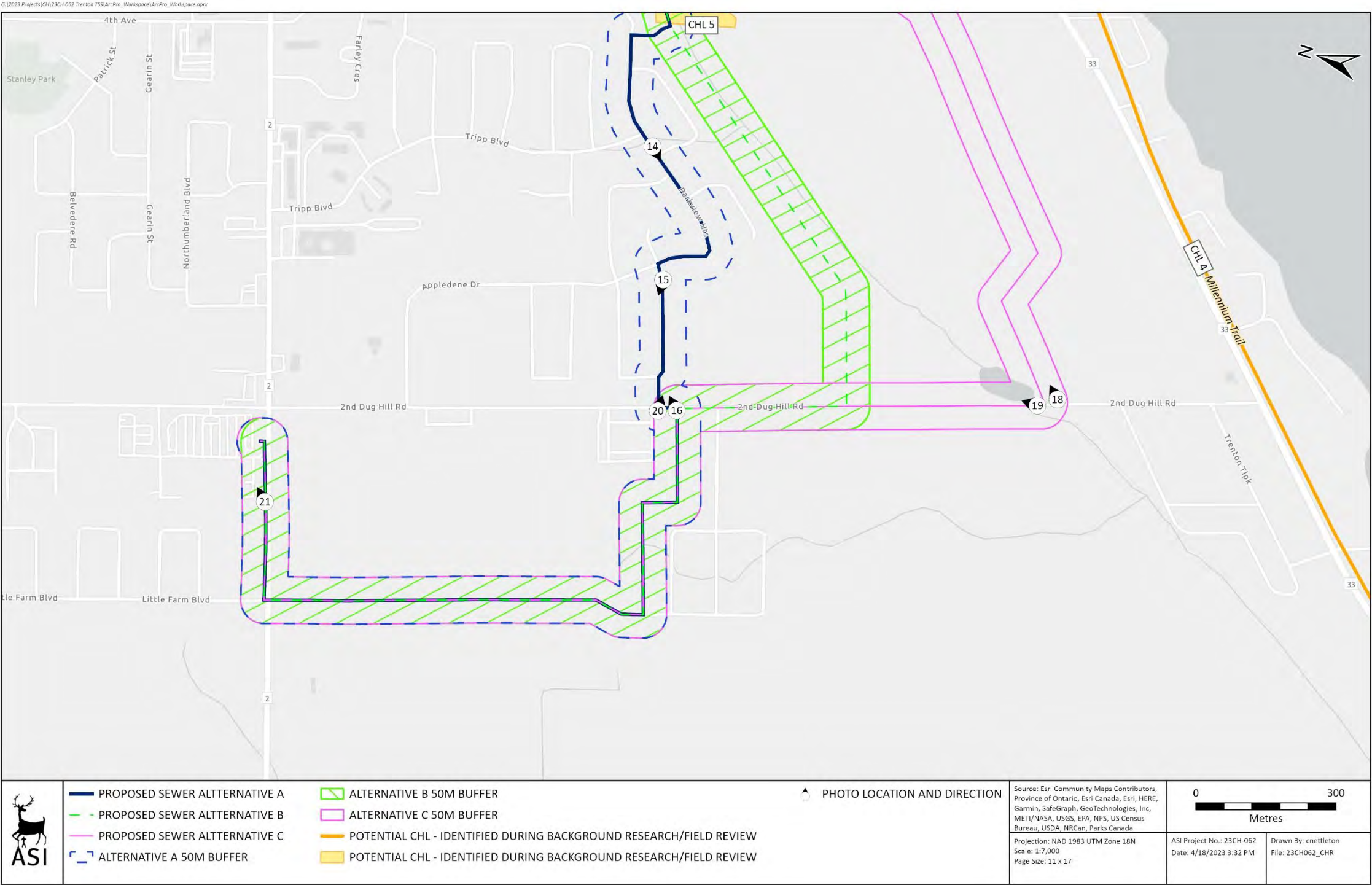


Figure 12: Map showing locations of identified commemorative features (C.F.), built heritage resources (B.H.R.), and cultural heritage landscapes (C.H.L.) in the Study Area (Sheet 4).



5.0 Preliminary Impact Assessment

The following sections provide more detailed information regarding the proposed project undertaking and analysis of the potential impacts on identified built heritage resources and cultural heritage landscapes.

5.1 Description of Proposed Undertaking

The proposed undertaking for the Trenton Trunk Sanitary Sewer Municipal Class Environmental Assessment study area consists of the installation of a new trunk sanitary sewer in Trenton, Ontario. The proposed work is assumed to include a mix of open-cut construction where possible and trenchless construction (i.e., directional drilling) where open-cut trenches are not feasible.

At the time of report preparation (April 2023) no preferred alternative alignment had been selected, and so potential impacts to identified properties and features are outlined for each of the three alternative alignments.

5.2 Analysis of Potential Impacts

Table 2 outlines the potential impacts on all identified commemorative features (C.F.), built heritage resources (B.H.R.s), and cultural heritage landscapes (C.H.L.s) within the study area.

Table 2: Preliminary Impact Assessment and Recommended Mitigation Measures

Feature I.D.	Location/Name	Type and Description of Potential/Anticipated Impact	Mitigation Strategies
C.F. 1	Tree and Plaque	No direct impacts are anticipated as the proposed work will be confined to the area south of Fraser Park Drive.	Construction and staging should be suitably planned to ensure that there are no impacts to C.F. 1.
	Civic Memorial Tree	As the commemorative feature including tree is within 50 metres of the proposed work, indirect impacts due to construction-related disturbance are possible. These impacts are considered to be minor and temporary if suitable mitigation measures are implemented.	Suitable mitigation measures including establishing no-go zones with fencing and issuing instructions to construction crews to avoid the cultural heritage resources should be considered to mitigate any impacts to the C.F. Post-construction rehabilitation should be completed to return the area adjacent to this commemorative feature to its pre-construction condition.
C.F. 2	Plaque	No direct impacts are anticipated as the proposed work will be confined to Quinte West Public Library Access Road.	Construction and staging should be suitably planned to ensure that there are no impacts to C.F. 2.
	Champlain’s War Party 1615	As the commemorative feature sits within 50 metres of the proposed work, indirect impacts due to construction-related disturbance are possible. These impacts are considered to be minor and temporary if suitable mitigation measures are implemented.	Suitable mitigation measures including establishing no-go zones with fencing and issuing instructions to construction crews to avoid the cultural heritage resources should be considered to mitigate any impacts to the C.F. Post-construction rehabilitation should be completed to return the area adjacent to this commemorative feature to its pre-construction condition.



Feature I.D.	Location/Name	Type and Description of Potential/Anticipated Impact	Mitigation Strategies
C.H.L. 1	The Trent River	No adverse direct or indirect impacts are anticipated as the proposed work will be confined to the Fraser Park Marina parking lot, adjacent to the riverbank.	No further work required.



Feature I.D.	Location/Name	Type and Description of Potential/Anticipated Impact	Mitigation Strategies
C.H.L. 2	Fraser Park	<p>Direct impacts are anticipated as the proposed work is within Fraser Park. Direct impacts may include the removal of trees, the iron boundary fence, and disruption of walking paths along the park’s northern and western boundaries.</p> <p>As the entirety of the park lies within the 50-metre vibration zone of influence, potential adverse indirect impacts from construction-related vibration are anticipated. Potential vibration-related impacts are anticipated for the Fraser Park Memorial Gates which are located approximately 15 metres from the proposed work at the park’s eastern boundary. Potential vibration-related impacts are also possible for the bandshell, iron boundary fence, and landscaping features. The impacts of the vibrations should be investigated through an engineering assessment and any necessary mitigation measures should be implemented prior to construction.</p>	<p>Where feasible, the proposed work should be designed in a manner that avoids all impacts to C.H.L. 2.</p> <p>Suitable mitigation measures including establishing no-go zones with fencing and issuing instructions to construction crews to avoid the cultural heritage resources should be considered to mitigate any impacts to the C.H.L.</p> <p>Where the proposed work cannot be revised to avoid impacts, the removal of trees and other features should be limited to the extent possible. Where removal cannot be avoided, post-construction rehabilitation with sympathetic plantings should be implemented.</p> <p>Where direct impacts are anticipated, a resource-specific Heritage Impact Assessment (H.I.A.) should be completed by a qualified cultural heritage professional as early as possible in detailed design, per City of Quinte West Official Plan Clause 10.6.3.</p> <p>To address the potential for indirect impacts to heritage attributes due to construction related vibration, undertake a baseline vibration assessment during detail design to determine potential vibration impacts.</p>



Feature I.D.	Location/Name	Type and Description of Potential/Anticipated Impact	Mitigation Strategies
C.H.L. 3	Trenton Veteran’s Memorial	<p>Direct impacts are anticipated as the proposed work passes through the northeastern portion of the memorial grounds. Direct impacts may include disruption of the walking paths and the removal of landscaping features.</p> <p>Indirect adverse impacts from vibration are anticipated as the cenotaph and plinth are within close proximity to the proposed work. The impacts of the vibrations should be investigated through an engineering assessment and any necessary mitigation measures should be implemented prior to construction.</p>	<p>Where feasible, the proposed work should be designed in a manner that avoids all impacts to C.H.L. 3.</p> <p>Suitable mitigation measures including establishing no-go zones with fencing and issuing instructions to construction crews to avoid the cultural heritage resources should be considered to mitigate any impacts to the C.H.L.</p> <p>Where the proposed work cannot be revised to avoid impacts, the removal of landscaping features should be limited to the extent possible. Where removal cannot be avoided, post-construction rehabilitation including sympathetic plantings should be implemented.</p> <p>Where direct impacts are anticipated, a resource-specific Heritage Impact Assessment (H.I.A.) should be completed by a qualified cultural heritage professional as early as possible in detailed design, per City of Quinte West Official Plan Clause 10.6.3.</p> <p>To address the potential for indirect impacts due to construction related vibration, undertake a baseline vibration assessment during detail design to determine potential vibration impacts.</p>



Feature I.D.	Location/Name	Type and Description of Potential/Anticipated Impact	Mitigation Strategies
C.H.L. 4	Millennium Trail	<p>Direct impacts are anticipated as the proposed work follows the Millennium Trail right-of-way. Direct impacts may include the removal of trees, landscaping features, and recreational equipment and the disruption of the walking path. These impacts are anticipated to be minor and temporary if suitable mitigation measures are implemented.</p> <p>No indirect impacts are anticipated.</p>	<p>Where feasible, the proposed work should be designed in a manner that avoids all impacts to C.H.L. 4.</p> <p>Suitable mitigation measures including establishing no-go zones with fencing and issuing instructions to construction crews to avoid the cultural heritage resources should be considered to mitigate any impacts to the C.H.L.</p> <p>Where the proposed work cannot be revised to avoid impacts, the removal of trees and other features should be limited to the extent possible. Where removal cannot be avoided, post-construction rehabilitation with sympathetic plantings should be implemented.</p> <p>Where direct impacts are anticipated, a resource-specific Heritage Impact Assessment (H.I.A.) should be completed by a qualified cultural heritage professional as early as possible in detailed design, per City of Quinte West Official Plan Clause 10.6.3.</p>



Feature I.D.	Location/Name	Type and Description of Potential/Anticipated Impact	Mitigation Strategies
C.H.L. 5	Hanna Park	<p>Direct impacts are anticipated as the proposed work is within the western portions of Hanna Park. Direct impacts may include the removal of trees and disruption of walking paths along the park’s western boundary. These impacts are anticipated to be minor and temporary if suitable mitigation measures are implemented.</p> <p>No indirect impacts are anticipated.</p>	<p>Where feasible, the proposed work should be designed in a manner that avoids all impacts to C.H.L. 5.</p> <p>Suitable mitigation measures including establishing no-go zones with fencing and issuing instructions to construction crews to avoid the cultural heritage resources should be considered to mitigate any impacts to the C.H.L.</p> <p>Where the proposed work cannot be revised to avoid impacts, the removal of trees and other features should be limited to the extent possible. Where removal cannot be avoided, post-construction rehabilitation with sympathetic plantings should be implemented.</p> <p>Where direct impacts are anticipated, a resource-specific Heritage Impact Assessment (H.I.A.) should be completed by a qualified cultural heritage professional as early as possible in detailed design, per City of Quinte West Official Plan Clause 10.6.3.</p>



Feature I.D.	Location/Name	Type and Description of Potential/Anticipated Impact	Mitigation Strategies
B.H.R. 1	65 Dundas Street West	No direct or indirect adverse impacts are anticipated as the proposed work will be confined to the area south of Fraser Park Drive. The heritage structure is located at the northeast corner of the property and is not within 50-metres of the proposed work.	<p>A resource-specific Heritage Impact Assessment (H.I.A.) may be required as per City of Quinte West Official Plan Clause 10.6.3 as site alterations to lands adjacent to a protected heritage property are anticipated. As there are no direct or indirect adverse impacts anticipated, planning staff at the City of Quinte West should consider waiving the requirement for an H.I.A. in this case if suitable mitigation measures are employed.</p> <p>Suitable mitigation measures including establishing no-go zones with fencing and issuing instructions to construction crews to avoid the cultural heritage resources should be considered to mitigate any impacts to the B.H.R. 1.</p>
B.H.R. 2	11-13 McGill Street	No direct or indirect adverse impacts are anticipated as the proposed work will be confined to the area south of Fraser Park Drive. No structures on the property are within 50-metres of the proposed work.	No further work required.



Where feasible, the proposed alignment should be designed to avoid impacts to these C.F.s, B.H.R.s, and C.H.L.s. To ensure the structures and features on these properties are not adversely impacted, construction and staging should be suitably planned to avoid all impacts to these properties and features. Suitable mitigation measures could include the establishment of no-go zones with fencing and issuing instructions to construction crews to avoid the C.F.s, B.H.R.s, and C.H.L.s.

C.H.L. 2 (Fraser Park), C.H.L. 3 (Trenton Veteran's Memorial), C.H.L. 4 (Millennium Trail), and C.H.L. 5 (Hanna Park) may be subject to direct impacts from the proposed work. Suitable mitigation measures including establishing no-go zones with fencing and issuing instructions to construction crews to avoid the cultural heritage resources should be considered to mitigate any impacts to the C.H.L.s. Where the proposed work cannot be revised to avoid impacts, the removal of trees and other features should be limited to the extent possible. Where removal cannot be avoided, post-construction rehabilitation with sympathetic plantings should be implemented.

Where direct impacts are anticipated, a resource-specific Heritage Impact Assessment (H.I.A.) should be completed by a qualified cultural heritage professional as early as possible in detailed design, per City of Quinte West Official Plan Clause 10.6.3. In this respect, an H.I.A. should be completed for C.H.L.s 2-5 if suitable mitigation and avoidance measures cannot be implemented.

A Heritage Impact Assessment may also be required for B.H.R. 1 as per the City of Quinte West Official Plan Clause 10.6.3 as site alterations to lands adjacent to a protected heritage property are anticipated. As there are no direct or indirect adverse impacts anticipated, planning staff at the City of Quinte West should consider waiving the requirement for an H.I.A. in this case if suitable mitigation measures are employed.

Indirect impacts to C.F. 1 (Tree and Plaque – Civic Memorial Tree), C.F. 2 (Plaque – Champlain's War Party 1615), C.H.L. 2 (Fraser Park), and C.H.L. 3 (Trenton



Veteran's Memorial) are possible as a result of their locations in close proximity to the proposed alignments. To ensure the structures and features of these properties are not adversely impacted during construction, a baseline vibration assessment should be undertaken during detailed design. Should this advance assessment conclude that the any structures or features will be subject to vibrations, a vibration monitoring plan should be prepared and implemented as part of the detailed design phase of the project to lessen vibration impacts related to construction.

No adverse direct or indirect impacts are anticipated for C.H.L. 1 (Trent River), B.H.R. 1 (65 Dundas Street West), and B.H.R. 2 (11-13 McGill Street).

6.0 Results and Mitigation Recommendations

The results of background historical research and a review of secondary source material, including historical mapping, indicate a study area with a generally rural land use history dating back to the early nineteenth century. A review of federal, provincial, and municipal registers, inventories, and databases revealed that there is one known built heritage resource (B.H.R.) and one known cultural heritage landscape (C.H.L.) in the Trenton Trunk Sanitary Sewer Municipal Class Environmental Assessment study area. An additional one potential B.H.R., four potential C.H.L.s and two commemorative features (C.F.s) were identified during the background information review and fieldwork.

6.1 Key Findings

A total of two B.H.R.s, two C.F.s, and five C.H.L.s was identified within the study area:

- One B.H.R. is designated under Part IV of the *Ontario Heritage Act* (B.H.R. 1)
- One C.H.L. is included on the register of National Historic Sites of Canada (C.H.L. 1)



- One potential B.H.R. (B.H.R. 2), four potential C.H.L.s (C.H.L.s 2-5) and two C.F.s (C.F. 1-2) were identified in background information review and fieldwork
- Identified B.H.R.s and C.H.L.s are historically, architecturally, and contextually associated with land use patterns in the City of Quinte West and more specifically representative of the early settlement of small communities along the Trent-Severn Waterway.

Results of Preliminary Impact Assessment

- Direct adverse impacts are anticipated to C.H.L. 2 (Fraser Park), C.H.L. 3 (Trenton Veteran's Memorial), C.H.L. 4 (Millennium Trail), C.H.L. 5 (Hanna Park).
- Where direct impacts are anticipated, a resource-specific Heritage Impact Assessment (H.I.A.) should be completed by a qualified cultural heritage professional as early as possible in detailed design, per City of Quinte West Official Plan Clause 10.6.3.
- Indirect impacts to C.F. 1 (Plaque – Civic Memorial Tree), C.F. 2 (Plaque – Champlain's War Party 1615), C.H.L. 2 (Fraser Park), and C.H.L. 3 (Hanna Park) are considered to be minor and temporary if suitable mitigation measures are implemented.
- No adverse direct or impacts are anticipated for C.H.L. 1 (Trent River), B.H.R. 1 (65 Dundas Street West), and B.H.R. 2 (11-13 McGill Street).

6.2 Recommendations

Based on the results of the assessment, the following recommendations have been developed:

1. Construction activities and staging should be suitably planned and undertaken to avoid impacts to identified C.F.s, B.H.R.s, and C.H.L.s.
2. Suitable mitigation including establishing no-go zones with fencing and issuing instructions to construction crews to avoid identified C.F.s,



- B.H.R.s, and C.H.L.s should be considered to mitigate any unintended impacts during construction.
3. Direct impacts are possible to C.H.L. 2 (Fraser Park), C.H.L. 3 (Trenton Veteran's Memorial), C.H.L. 4 (Millennium Trail), and C.H.L. 5 (Hanna Park). Suitable mitigation measures including establishing no-go zones with fencing and issuing instructions to construction crews to avoid the cultural heritage resources should be considered to mitigate any impacts to the C.H.L.s. Where the proposed work cannot be revised to avoid impacts, the removal of trees and other features should be limited to the extent possible. Where removal cannot be avoided, post-construction rehabilitation with sympathetic plantings should be implemented. Where direct impacts are anticipated, a resource-specific Heritage Impact Assessment (H.I.A.) should be completed by a qualified cultural heritage professional as early as possible in detailed design, per City of Quinte West Official Plan Clause 10.6.3. In this respect, an H.I.A. should be completed for C.H.L.s 2-5 if suitable mitigation and avoidance measures cannot be implemented.
 4. A H.I.A. may also be required for B.H.R. 1 as per the City of Quinte West Official Plan Clause 10.6.3 as site alterations to lands adjacent to a protected heritage property are anticipated. As there are no direct or indirect adverse impacts anticipated, planning staff at the City of Quinte West should consider waiving the requirement for an H.I.A. in this case if suitable mitigation measures are employed.
 5. Vibration during construction activities may impact C.F. 1 (Tree and Plaque – Civic Memorial Tree), C.F. 2 (Plaque – Champlain's War Party 1615), C.H.L. 2 (Fraser Park), and C.H.L. 3 (Hanna Park) as a result of their location in close proximity to the proposed alignments. To ensure the structures and features are not adversely impacted during construction, a baseline vibration assessment should be undertaken during detailed design.



6. Should future work require an expansion of the study area then a qualified heritage consultant should be contacted in order to confirm the impacts of the proposed work on B.H.R.s and C.H.L.s.
7. This report should be submitted by the proponent to heritage staff at the City of Quinte West, the Ministry of Citizenship and Multiculturalism, and any other relevant stakeholder with an interest in this project.



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Appendix A

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ONTARIO

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S. L. Henneja
LAND REGISTRAR

DATED: OCTOBER 29th, 1979

THE CORPORATION OF THE TOWN OF TRENTON

BY-LAW NO. 79-3652

WILLIAM G. WESTON
BARRISTER & SOLICITOR
42 DUNDAS STREET WEST
TRENTON, ONTARIO

DUPLICATE ORIGINAL

CORPORATION OF THE TOWN OF TRENTON
BY-LAW NO. 79-3652

A BY-LAW TO DESIGNATE THE STONE CLOCK TOWER IN THE
TOWN OF TRENTON TO BE OF HISTORIC OR ARCHITECTURAL
VALUE OR INTEREST

WHEREAS Section 29 of the Ontario Heritage Act, 1974, provides that where the Council of a municipality has given notice of its intention to designate a property to be of historic or architectural value or interest and no notice of objection is served upon the said municipality within the thirty (30) days of the date of the first publication of such notice of intention, the Council shall pass a by-law designating the property to be of historic or architectural value or interest;

AND WHEREAS all statutory requirements for giving notice of Council's intention to pass a by-law designating the property herein described to be of historic or architectural value or interest have been complied with;

AND WHEREAS no objection has been received to the by-law;

NOW, THEREFORE, THE COUNCIL OF THE CORPORATION OF THE TOWN OF TRENTON ENACTS AS FOLLOWS:

1. The Stone Clock Tower of the Municipal Building, which has served since 1888 and which is located on the property described as follows:

"ALL AND SINGULAR that certain parcel or tract of land and premises situate, lying and being in the Town of Trenton in the County of Hastings, being composed of Lot 4, Registered Plan No. 240, on the south side of Dundas Street West, having a frontage on Dundas Street West of fifty feet and a depth of one hundred, twenty-eight feet."

be and the same is designated as a property of historic or architectural value or interest, as provided in The Ontario Heritage Act, 1974.

2. Nothing in this By-Law shall be construed to designate any of the lands described above, to be of historic or architectural value or interest, as provided in The Ontario Heritage Act, 1974.
3. This By-Law shall come into force and take effect immediately on the passing thereof.

READ A FIRST, SECOND AND THIRD TIME AND FINALLY PASSED THIS
TWENTY-NINTH DAY OF OCTOBER, A.D., 1979.

MAYOR

CLERK



PLN-06-10B

**CLOCK TOWER
65 DUNDAS STREET WEST, TRENTON**

In 1888, with the upcoming completion of the Murray Canal, the federal government expected tremendous growth and prosperity for the Town of Trenton. Representative of this faith was the construction of a monumental Post Office at the foot of King Street on Dundas Street West.

With the laying of the cornerstone in June of 1888, the Trenton Courier reported that the "building will be a permanent improvement in the Town." The irony of that statement is clear today as only the tower remains. The Post Office was demolished in 1971 to make way for the City Hall and a parking garage.

There was no expense spared in the construction of the Post Office and Clock Tower. Architect Thomas Fuller's specifications called for the "best quality limestone from Ox Point Quarries near Belleville." Similarly, the brick was "the best approved quality of red brick...the pick of the kilns" from the Belleville Brickyard. Fuller was the chief architect for the Federal Department of Public Works. The builder was Walter Alford of Belleville.

Fuller favoured the Romanesque Revival style of architecture. The attributes of this style are still evident in the Clock Tower. Bold round-headed arches accentuate the windows and door openings. Random course, quarry faced limestone on the external walls add to this imposing form. Smooth faced cut stone bands give added importance to the structure. The end result was the appearance of a massive and stable building which projected a firm and solid government image.

The Clock Tower is a landmark in the downtown core. During construction in 1888, Mayor Morrison and other citizens noted that the clocks were difficult to see from the street. They wrote the Department of Public Works on the matter. As a result, the tower was raised an additional ten feet over the original design. The approximate height of the Tower is 90 feet. Clocks on four sides of the octagonal tower toll the hour.

In 1979, Trenton Council designated the Clock Tower as a heritage property under the Ontario Heritage Act for architectural and historic reasons.

Appendix D. Stakeholder Consultation Documentation

Group	First Name	Last Name	Company/Organization	Department	Job Title	Street	City	Province	Postal Code	Phone	Fax	Email Address	Communication Method	Comments	Sent NOC-1	Sent NOP	Stakeholder Comments 1	Response 1	Stakeholder Comments 2	Response 2	Stakeholder Comments 3	Response 3	Stakeholder Comments 4	Response 4
Interest/ Stakeholder							Trenton	Ontario					Email		22-Jul-22	28-Sep-22	Jul-25-2022: Concerned that property is right on the border of study, is seeking more information.	Aug-8-2022: Latest info is on the City of Quinte West website, and project is still in the process of developing and evaluating proposed alignments.	Jan-23-2023: Wants to know which alternative has been chosen and when construction will begin.	Jan-10-2023: The environmental evaluation report will soon be available.	Jan-10-2023: Acknowledged the response.			
Interest/ Stakeholder													Email/ Phone		26-Jul-22	28-Sep-22	Jul-26-2022: Wants to know more about the class A schedule B EA. Wants to be more involved in the project.	Jul-27-2022: Explained all routes will be evaluated for environmental, cultural, social, technical, and financial implications. PIC in the next six weeks.	Jan-10-2023: Following up wondering which alternative is chosen.	Aug-16-2022: Thanked them for their opinion and encouraged them to read the official plan update.				
Interest/ Stakeholder							Trenton	Ontario					Email		22-Jul-22	28-Sep-22	Suggested that the project is too large scale for Trenton and will cause disruption to the village.	Aug-27-2022: Explained all routes will be evaluated for environmental, cultural, social, technical, and financial implications. PIC in the next six weeks.	Dec-13-2022: Following up asking which alternative was chosen.	Dec-14-2022: Replied that alternative C is chosen and that construction will take place in mid to late 2023.	Jan-25-2023: Very concerned because the new sewer line has a sewer in front of his property so he is concerned for structural damage to his property, the flow of his well and the aesthetics of the area changing.	Jan-25-2023: There are no plans to urbanize the section of the village that is located. There will be a pre-construction and pre-construction inspection on all houses to prevent any damage.		
Interest/ Stakeholder													Email		22-Jul-22	28-Sep-22	Jul-25-2022: Curious on how EA boundaries were established.	Jul-27-2022: Explained how boundaries were established through an official master plan process for water and wastewater services.	Oct-4-2022: Requested paper copies of the display boards.					
Interest/ Stakeholder													Email		23-Jul-22	28-Sep-22	Aug-08-2022: Wonders why the area south of Carrying Place Road is excluded.	Aug-08-2022: Explained that Highway 2 and 2nd Dug Hill Rd are identified as growth areas from the 2021 Water and Wastewater Master Plan.	Aug-08-2022: Went where to find the Water and Wastewater Master Plan, and explained how the alignment is still yet to be determined.	Aug-08-2022: Sent where to find the Water and Wastewater Master Plan, and explained how the alignment is still yet to be determined.	Aug-17-2022: Followed up asking how to request sanitary services for certain parts of the city.			
Interest/ Stakeholder																	Oct-25-2022: Wants to minimize disturbance in Hanna park because of wildlife.	Nov-9-2022: Never too late to provide feedback. Currently working on project file and will notify when it is completed.						
Interest/ Stakeholder							Bellville	Ontario					Email			28-Sep-22	Sept-08-2022: Wanted to know the updates.	Sept-13-2022: Plan to have alignment by early October.						
Interest/ Stakeholder													Email		24-Jul-22	28-Sep-22	Sept-18-2022: Received NOC and would like to know							
Interest/ Stakeholder							Trenton	Ontario					Email		23-Jul-22	28-Sep-22	Aug-1-2022: Thinks roads cannot accommodate to project. Suggested potential solution away from the properties on 2nd Dug Hill Road.	Aug-2-2022: Explained how the project is still in EA phase and preferred alignments are still being explored. More info will come at PIC.						
Provincial	Karla	Barboza	Ministry of Heritage, Sport, Tourism and Culture Industries	Programs and Services Branch	Team Lead/SL Heritage Planning Unit	900 University Ave, 5th Floor	Toronto	Ontario	M7N 2B9	416-660-1027		karla.barboza@ontario.ca	Email		29-Jun-22	28-Sep-22	Aug-13-2022: Wants to find the online version of the display boards. It is not posted on the website.	Oct-10-2022: The boards have been posted to the City of Quinte West's website.						
Provincial	Sam	Short	Ministry of Natural Resources and Forestry	Land Use Planning and Strategic Issues Section	Regional Planner							sam.short@ontario.ca	Email		29-Jun-22	28-Sep-22	Aug-9-2022: Received the NOC, and explains the what the MTCS looks for to maintain the culture and heritage. As well as provide archaeological resources.							
Provincial	Laura	Hatcher	Ministry of Tourism, Culture, and Sport	Heritage Planner								laura.hatcher@ontario.ca	Email		30-Jun-22	28-Sep-22	Aug-9-2022: Received the NOC, and explains the what the MTCS looks for to maintain the culture and heritage. As well as provide archaeological resources.							
Provincial	Peter	Makula	Ministry of Transportation	Design and Engineering Branch	Manager, Engineering Program Delivery East	1355 John Counter Blvd, Postal Bag 4000	Kingston	Ontario	K7L 5A3	613-329-5523	613-540-5103	peter.makula@ontario.ca	Email		29-Jun-22	28-Sep-22								
Provincial	Michael	Zins	Ministry of Municipal Affairs and Housing	Eastern Municipal Services Office	Manager, Community Planning and Development	8 Estate Lane, Rockwood House	Kingston	Ontario	K7M 5A8	613-545-2132	613-548-6822	michael.zins@ontario.ca	Email		29-Jun-22	28-Sep-22								
Provincial			Ministry of the Environment, Conservation and Parks									info@ontario.ca	Email		29-Jun-22	28-Sep-22								
Provincial	Jon	Organs	Ministry of the Environment, Conservation and Parks	Project Review	Environmental Resource Planner & EA Coordinator	7th Fl, 135 St Clair Ave W	Toronto	Ontario	M4V 1P5	613-561-8250		jon.organs@ontario.ca	Email		29-Jun-22	28-Sep-22	Jul-21-2022: MCEP preliminary comments were sent, as well as a list of indigenous communities who should be consulted on the project.							
Provincial			Ministry of the Environment, Conservation and Parks	Eastern Region								western@ontario.ca	Email		29-Jun-22	28-Sep-22								
Provincial	Catherine	Warren	Ministry of Northern Development, Mines, Natural Resources and Forestry	Peterborough District	District Planner	South Tower, 1st Floor 800 Water St, PO Box 7000	Peterborough	Ontario	K9J 8M5	705-772-9012	705-755-3125	catherine.warren@ontario.ca	Email		29-Jun-22	28-Sep-22								
Provincial	Colin	Higgins	Ministry of Northern Development, Mines, Natural Resources and Forestry	Peterborough District	Management Biologist	1st Fl F's, 300 Water St	Peterborough	Ontario	K9J 3C7	705-772-3638		colin.higgins@ontario.ca	Email		29-Jun-22	28-Sep-22								
Municipal	Lynette	Lambert	City of Quinte West	Trenton	Quality Management Technician					613-392-2841 x4873		lynette.lambert@quintewest.ca	Email		29-Jun-22	28-Sep-22								
Municipal	Kathleen	Bow	City of Quinte West	Trenton	Community Services and Strategic Initiatives					613-392-2841 x 4610		kathleen.bow@quintewest.ca	Email		29-Jun-22	28-Sep-22								
Municipal	Sally	Frisman	City of Quinte West	Trenton	Councillor					613-965-6769			Through public works meeting	Councillors will be kept up to date on EA through client PM at Public Works Meetings.	-									
Municipal	Michael	Kotowski	City of Quinte West	Trenton	Councillor					613-827-3335			Through public works meeting	Councillors will be kept up to date on EA through client PM at Public Works Meetings.	-									
Municipal	Fred	Koopers	City of Quinte West	Trenton	Councillor					613-392-8548			Through public works meeting	Councillors will be kept up to date on EA through client PM at Public Works Meetings.	-									
Municipal	David	O'Neill	City of Quinte West	Trenton	Councillor					613-849-8750			Through public works meeting	Councillors will be kept up to date on EA through client PM at Public Works Meetings.	-									
Municipal	Jessie	Readehead	City of Quinte West	Trenton	Councillor					613-394-3482			Through public works meeting	Councillors will be kept up to date on EA through client PM at Public Works Meetings.	-									
EMS and Health			Quinte West Fire Prevention			7 Creswell Dr	Trenton	Ontario	K9V 3S8	3613922841			Not required	-										
EMS and Health			Quinte West Fire Department Station 2			34 Cameron Ave	Trenton	Ontario	K9V 5P7	3613394332			Not required	-										
EMS and Health			Ontario Provincial Police	Quinte West Detachment		3 Dixon Drive, P.O. Box 1050	Trenton	Ontario	K9V 6E6	613-392-3561	613-392-5202		Not required	-										
EMS and Health	Jennifer	Dovey	Ontario Provincial Police	Facilities Section	Administrative Assistant	777 Memorial Avenue, 2nd Floor	Orillia	Ontario	L3V 7Y3	705-305-2621		jennifer.dovey@oppg.ca	Email		29-Jun-22	28-Sep-22								
EMS and Health	Alicia	Almeweni	Ontario Provincial Police	Facilities Section	Administrative Assistant	777 Memorial Avenue, 2nd Floor	Orillia	Ontario	L3V 7Y3	705-329-6825		alicia.almeweni@oppg.ca	Email		29-Jun-22	28-Sep-22	Jun-29-2022: Received Undeliverable message saying the email address had permanent fatal errors.							
EMS and Health	Ethan	Toussimhey	Hastings Prince Edward Public Health		Medical Officer of Health	279 North Park Street	Bellville	Ontario	M8P 4P1	(613) 966-5500	(613) 966-9428		Not required	-										
EMS and Health Contact			CHC Trenton Memorial Hospital			242 King St	Trenton	Ontario	K9V 5S6	3613392540			Not required	-										
Conservation Authority	Mary	Burningham	Quinte Conservation	Development Services & Water Resources	Manager					613-394-3915 x211		maryburn@quinticonservation.ca	Not required	-			Project is outside Quinte Conservation jurisdiction.							
Conservation Authority	Jane	Huges	Lower Trent Conservation									jane.huges@ltn.ca	Email		29-Jun-22	28-Sep-22	Continue to communicate with her throughout the project.							
Indigenous Contact	Chief Dave	Mowat	Adenval First Nation									dmoorat@adenval.ca	Email		29-Jun-22	28-Sep-22	CC: Karry Sandy McKenzie (Williams Treaties First Nations Process Co-ordinator) at k.sandy@williamsfirstnations.ca							
Indigenous Contact	Chief James P.	Sandely	Beausoleil First Nation									jsandely@beausoleil.ca	Email		29-Jun-22	28-Sep-22	CC: Karry Sandy McKenzie (Williams Treaties First Nations Process Co-ordinator) at k.sandy@williamsfirstnations.ca							
Indigenous Contact	Chief Donna	Big Canoe	Chippewas of Georgina Island									donna.bigcanoe@chippewasofgeorgina.ca	Email		29-Jun-22	28-Sep-22	CC: Karry Sandy McKenzie (Williams Treaties First Nations Process Co-ordinator) at k.sandy@williamsfirstnations.ca							
Indigenous Contact	Denis	Pocagnaella	Chippewas of Rama First Nation		Director of Facilities and Operations	5690 Willson Road	Rama	Ontario	L3V 6H6	705-325-5611 ext. 1540		denisp@ramafirstnation.ca or denisp@ramafirstnation.ca	Email		8-Aug-22	28-Sep-22	CC: Karry Sandy McKenzie (Williams Treaties First Nations Process Co-ordinator) at k.sandy@williamsfirstnations.ca							
Indigenous Contact	Kayla	Wright										kayla@ramafirstnation.ca	Email				Dec-05-2022: Emailing the Stage 1 AA report for Curve Lake's review and comments. Encouraging comments on PIC display boards sent to the professional consultant.							
Indigenous Contact	Sally	K										sally@ramafirstnation.ca	Email											
Indigenous Contact	Kaitlin	H										</												

Quinte West - West End Trenton Trunk Sanitary Sewer - Environmental As...



Long, Andrew/TOR

To: Matt Tracey; Long, Andrew/TOR

Bcc: Newton, Dorin/TOR; Chang, Jacqueline; 'karla.barboza@ontario.ca';
'peter.makula@ontario.ca'; 'michael.elms@ontario.ca'; 'SAROntario@Ontario.ca';
'jon.orpana@ontario.ca'; 'eanotification.eregion@ontario.ca';
'catherine.warren@ontario.ca'; 'colin.higgins@ontario.ca';

6/29/2022

You forwarded this message on 6/29/2022 2:34 PM.



QW-WestSTS-NOC-FINAL-28Jun22.pdf

121 KB

Good afternoon,

The City of Quinte West is undertaking a Schedule 'B' Municipal Class Environmental Assessment (EA) for the proposed West End Trenton Trunk Sanitary Sewer. For your information, please see attached the Notice of Commencement for this Class EA with a brief description of the project. For further information please see the City's project website here: <https://quintewest.ca/blog/notice-of-study-commencement-2>

As part of the study's consultation program, you are currently included in the contact list. If you wish to be removed or would like to suggest an alternative representative, please contact one of the Jacobs or City representatives listed below. Should we not hear from you, you will continue to be notified of all future consultation opportunities throughout the rest of the EA study.

Should you have any questions, please do not hesitate to contact us.

Thank you,

Andrew Long, P.Eng, LEED GA | Jacobs | Project Manager | O: 416.007.3582 | M: 647.701.6622 |

Andrew.Long3@jacobs.com

On behalf of

Matt Tracey

Manager Water & Wastewater Services

Public Works & Environment Services

City of Quinte West, 7 Creswell Dr, PO Box 490

Trenton, ON, K8V 5R6

T: 613-392-2841 x4482 | F: 613-392-7151 T: 437-780-2441

Email: mattt@quintewest.ca

Quinte West - West End Trenton Trunk Sanitary Sewer - Environmental As...



Long, Andrew/TOR

To Long, Andrew/TOR

Bcc 'Audrey.P@quintelake.ca'



6/29/2022

You replied to this message on 6/30/2022 12:17 PM.



QW-WestSTS-NOC-FINAL-28Jun22.pdf
121 KB

Good afternoon,

The City of Quinte West is undertaking a Schedule 'B' Municipal Class Environmental Assessment (EA) for the proposed West End Trenton Trunk Sanitary Sewer. For your information, please see attached the Notice of Commencement for this Class EA with a brief description of the project. For further information please see the City's project website here: <https://quintewest.ca/blog/notice-of-study-commencement-2>

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Should you have any questions, please do not hesitate to contact us.

Thank you,

Andrew Long, P.Eng, LEED GA | Jacobs | Project Manager | O: 416.007.3582 | M: 647.701.6622 |
Andrew.Long3@jacobs.com

On behalf of

Matt Tracey

Manager Water & Wastewater Services

Public Works & Environment Services

City of Quinte West, 7 Creswell Dr, PO Box 490

Trenton, ON, K8V 5R6

T: 613-392-2841 x4482 | F: 613-392-7151 T: 437-780-2441

Email: mattt@quintewest.ca

Chang, Jacqueline

From: Long, Andrew/TOR
Sent: Monday, July 4, 2022 12:02 PM
To: eanotification.eregion@ontario.ca
Cc: Newton, Dorin/TOR; Chang, Jacqueline; Matt Tracey
Subject: West End Trenton Trunk Sanitary Sewer - Schedule B Municipal Class Environmental Assessment
Attachments: EA_Project Information Form.xlsx; QW-WestSTS-NOC-FINAL-28Jun22.pdf

Hello,

Please see attached the Notice of Commencement and Project Information Form for the Schedule B Municipal Class EA for the above noted project.

Please let us know if you have any questions.

Kind Regards,

Andrew Long, P.Eng, LEED GA | [Jacobs](#) | Project Manager | O: 416.007.3582 | M: 647.701.6622 | Andrew.Long3@jacobs.com

Chang, Jacqueline

From: Newton, Dorin/TOR
Sent: Monday, July 11, 2022 12:55 PM
To: Long, Andrew/TOR; Chang, Jacqueline
Subject: RE: Quinte West - West End Trenton Trunk Sanitary Sewer - Environmental Assessment - Notice of Commencement

Hi Jacqueline,

Please check that Janet is in the Stakeholder Contact List and make a note of the LTC file number in the comments column. It is also worthwhile checking if we have her phone number on the list as well. Once you do this, please create a folder for LTC in the consultation folder and save her email in there as a PDF so it is easy for us to pull the Project File's Consultation material together at the end of the EA for documentation purposes.

Thank you,

Dorin Newton, P.Eng., M.Eng. | Jacobs | Engineering
O:+01.437.780.2472 (Effective April 28, 2022) | M:+00.519.575.5585 | Dorin.Newton@jacobs.com
PTO Alert: August 9-29, 2022

From: Long, Andrew/TOR <andrew.long3@jacobs.com>
Sent: Friday, July 8, 2022 7:48 PM
To: Chang, Jacqueline <Jacqueline.Chang@jacobs.com>
Cc: Newton, Dorin/TOR <Dorin.Newton@jacobs.com>
Subject: Fwd: Quinte West - West End Trenton Trunk Sanitary Sewer - Environmental Assessment - Notice of Commencement

Please update the consultation log accordingly.

Thanks,

Andrew Long, P.Eng, LEED GA | Jacobs | Project Manager, Buildings & Infrastructure | 416.499.0090 x73582 | 647.701.6622 | Andrew.Long3@jacobs.com | www.jacobs.com

Please consider the environment before printing this email.

Sent from my mobile

From: Janet Noyes <janet.noyes@ltc.on.ca>
Sent: Friday, July 8, 2022 4:25:14 PM
To: Long, Andrew/TOR <andrew.long3@jacobs.com>
Cc: Matt Tracey <mattt@quintewest.ca>
Subject: [EXTERNAL] Re: Quinte West - West End Trenton Trunk Sanitary Sewer - Environmental Assessment - Notice of Commencement

Hi Andrew;

Thank you for circulating Lower Trent Conservation (LTC) on the Notice of Commencement of this Class EA. Please continue to include me on the communications regarding this project.

LTC File: PL-22-165

Regards,
Janet Noyes

Janet Noyes, P.Eng. (she/her)
Manager, Development Services & Water Resources
Lower Trent Conservation
613.394.3915 x211
janet.noyes@ltc.on.ca

****COVID-19 Notice:** We're now able to accommodate in-person meetings at our office by appointment only. We also remain available to serve you virtually or by phone. To ensure your continued safety, we're not open for unscheduled meetings at this time. Please call 613-394-4829 if your message is urgent..

The Lower Trent Conservation watershed is located on the traditional territory of the Anishnabek, Huron-Wendat, and Haudenosaunee (Iroquois) First Nations, and within the context of the Williams Treaty.

Disclaimer: This communication is intended for the addressee indicated above. It may contain information that is privileged, confidential or otherwise protected from disclosure under the Municipal Freedom of Information and Privacy Protection Act. If you have received this email in error, please notify me immediately.

From: Long, Andrew/TOR <andrew.long3@jacobs.com>
Sent: Wednesday, June 29, 2022 2:23 PM
To: Matt Tracey <mathtt@quintewest.ca>; Long, Andrew/TOR <andrew.long3@jacobs.com>
Subject: Quinte West - West End Trenton Trunk Sanitary Sewer - Environmental Assessment - Notice of Commencement

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Good afternoon,

The City of Quinte West is undertaking a Schedule 'B' Municipal Class Environmental Assessment (EA) for the proposed West End Trenton Trunk Sanitary Sewer. For your information, please see attached the Notice of Commencement for this Class EA with a brief description of the project. For further information please see the City's project website here: <https://quintewest.ca/blog/notice-of-study-commencement-2>

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Should you have any questions, please do not hesitate to contact us.

Thank you,

Andrew Long, P.Eng, LEED GA | [Jacobs](#) | Project Manager | O: 416.007.3582 | M: 647.701.6622 |
Andrew.Long3@jacobs.com

On behalf of

Matt Tracey

Manager Water & Wastewater Services

Public Works & Environment Services

City of Quinte West, 7 Creswell Dr, PO Box 490

Trenton, ON, K8V 5R6

T: 613-392-2841 x4482 | F: 613-392-7151 T: 437-780-2441

Email: mattt@quintewest.ca

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Hydro One Networks Inc.

483 Bay Street
8th Floor South Tower
Toronto, Ontario M5G 2P5

HydroOne.com

July 13, 2022

Re: Trunk Sanitary Sewer - West End Trenton

Attention:
Matt Tracey
Manager Water & Wastewater Services
Public Works & Environment Services

Thank you for sending us notification regarding (Trunk Sanitary Sewer - West End Trenton). In our preliminary assessment, we have confirmed that Hydro One has existing distribution assets within your study area.

At this time, we do not have sufficient information to comment on the potential resulting impacts that your project may have on our infrastructure. As such, we must stay informed as more information becomes available so that we can advise if any of the alternative solutions present actual conflicts with our assets, and if so; what resulting measures and costs could be incurred by the proponent. Note that this response does not constitute approval for your plans and is being sent to you as a courtesy to inform you that we must continue to be consulted on your project.

Hydro One must be consulted during all stages of your project. Please ensure that all future communications about this and future project(s) are sent to us electronically to secondarylanduse@hydroone.com

Sent on behalf of,

**Secondary Land Use
Asset Optimization
Strategy & Integrated Planning
Hydro One Networks Inc.**

Chang, Jacqueline

From: Long, Andrew/TOR
Sent: Wednesday, July 13, 2022 10:17 AM
To: Chang, Jacqueline
Cc: Newton, Dorin/TOR
Subject: Fwd: Hydro One Response: 20220713-NoticeOfCommence-Trunk Sanitary Sewer - West End Trenton
Attachments: 20220713-NoticeOfCommence-Trunk Sanitary Sewer - West End Trenton.pdf
Categories: Red Category

Please file and not in the log accordingly.

Thanks,

Andrew Long, P.Eng, LEED GA | Jacobs | Project Manager, Buildings & Infrastructure | 416.499.0090 x73582 | 647.701.6622 | Andrew.Long3@jacobs.com | www.jacobs.com

Please consider the environment before printing this email.

Sent from my mobile

From: SUN Hongxia <Susan.SUN@HydroOne.com> on behalf of SECONDARY LAND USE Department <Department.SecondaryLandUse@hydroone.com>
Sent: Wednesday, July 13, 2022 9:47:15 AM
To: mattt@quintewest.ca <mattt@quintewest.ca>
Cc: SECONDARY LAND USE Department <Department.SecondaryLandUse@hydroone.com>; Long, Andrew/TOR <andrew.long3@jacobs.com>
Subject: [EXTERNAL] Hydro One Response: 20220713-NoticeOfCommence-Trunk Sanitary Sewer - West End Trenton

Please see the attached for Hydro One's Response.

Hydro One Networks Inc
SecondaryLandUse@HydroOne.com

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**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
135 St. Clair Avenue W
Toronto ON M4V 1P5
Tel.: 416 314-8001
Fax.: 416 314-8452

Rez-de-chaussée
135, avenue St. Clair Ouest
Toronto ON M4V 1P5
Tél. : 416 314-8001
Télec. : 416 314-8452

July 25, 2022

Attention: Mr. Matt Tracey,
Manager Water & Wastewater Services
Public Works and Environmental Services
City of Quinte West, 7 Creswell Dr.,
PO Box 490, Trenton, ON K8V 5R6
mathtt@quintewest.ca

BY EMAIL ONLY

Re:

**City of Quinte West
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT – Schedule B Trunk Sanitary Sewer
– West End Trenton
MECP Response to Notice of Commencement**

Dear Matt Tracey

This letter is in response to the Notice of Commencement (issued June 28th 2022) for the above noted project. 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 B project under the Municipal Class Environmental Assessment (Class EA).

Background

The City of Quinte West is undertaking a Municipal Class Environmental Assessment (EA) Study to identify, develop and implement a solution to address future capacity needs and existing sanitary sewer issues in the West end of Trenton. The West End Trunk Sanitary Sewer services a large area that is projected to experience substantial growth. Therefore, this study is to ensure reliable sanitary service is provided to existing areas and future growth areas.

Process

This project is being planned in accordance with the requirements for a Schedule B Municipal Class EA. The Class EA process includes consultation with the public and agencies, an evaluation of viable alternative solutions, an assessment of the impacts of the alternative solutions, identification of measures to mitigate any adverse impacts, and the selection of a preferred solution.

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:

- **Mohawks of the Bay of Quinte**

Williams Treaties First Nations:

- **Alderville First Nation**
- **Curve Lake First Nation**
- **Hiawatha First Nation**
- **Mississaugas of Scugog Island First Nation**
- **Chippewas of Georgina Island**
- **Chippewas of Rama First Nation**
- **Chippewas of Beausoleil First Nation**

For the above Williams Treaties communities, please cc Karry Sandy McKenzie, William Treaties First Nations Process Co-ordinator, inquiries@williamstreatiesfirstnations.ca

- **Kawartha Nishnawbe** – we have no current contact information for this group. If the proponent is aware of a contact they can circulate to them.

If the proponent is anticipating any Archaeological work they can also include:

- **Huron-Wendat**

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

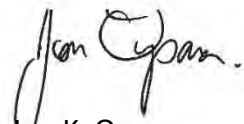
The MECP will then assess the extent of any Crown duty to consult for the circumstances and will consider whether additional steps should be taken, including what role you will be asked to play should additional steps and activities be required.

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,

A handwritten signature in black ink, appearing to read "Jon Orpana".

Jon K. Orpana

Regional Environmental Planner – Eastern Region

Cc:

Jacqueline Fuller, Water Compliance Supervisor, Peterborough District Office, MECP
Email: jacqueline.fuller@ontario.ca

Andrew Long, P. Eng.
Project Manager, Jacobs
Email: Andrew.long3@jacobs.com

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's Eastern Region. Parts of the study area may also be subject to the [Oak Ridges Moraine Conservation Plan](#) (2017), [Greenbelt Plan](#) (2017) or [Lake Simcoe Protection Plan](#) (2014). Applicable plans and the applicable policies should be identified in the report, and the proponent should describe how the proposed project adheres to the relevant policies in these plans.
- The [Provincial Policy Statement](#) (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.
 - 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 [section 1.1 of Ontario Regulation 287/07](#) 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
 - A discussion of potential mitigation measures.
- As a common practice, "air quality" should be used as 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 [*Cheminfo Services Inc. Best Practices for the Reduction of Air Emissions from Construction and Demolition Activities*](#) report prepared for Environment Canada. March 2005.
- 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 / considerations for SAR, please contact SAROntario@ontario.ca.

□ Surface Water

- 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 [Stormwater Management Planning and Design Manual \(2003\)](#) should be referenced in the report and utilized when designing stormwater control methods. **A Stormwater Management Plan should be prepared as part of the Class EA process** 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.

☐ **Groundwater**

- 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 [large landfill sites](#) and [small landfill sites](#); Environmental Compliance Approval information for waste disposal sites on [Access Environment](#).
- 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 [website](#)).
- 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 [environmental land use planning guides](#) 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
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

Client's Guide to Preliminary Screening for Species at Risk

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

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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).

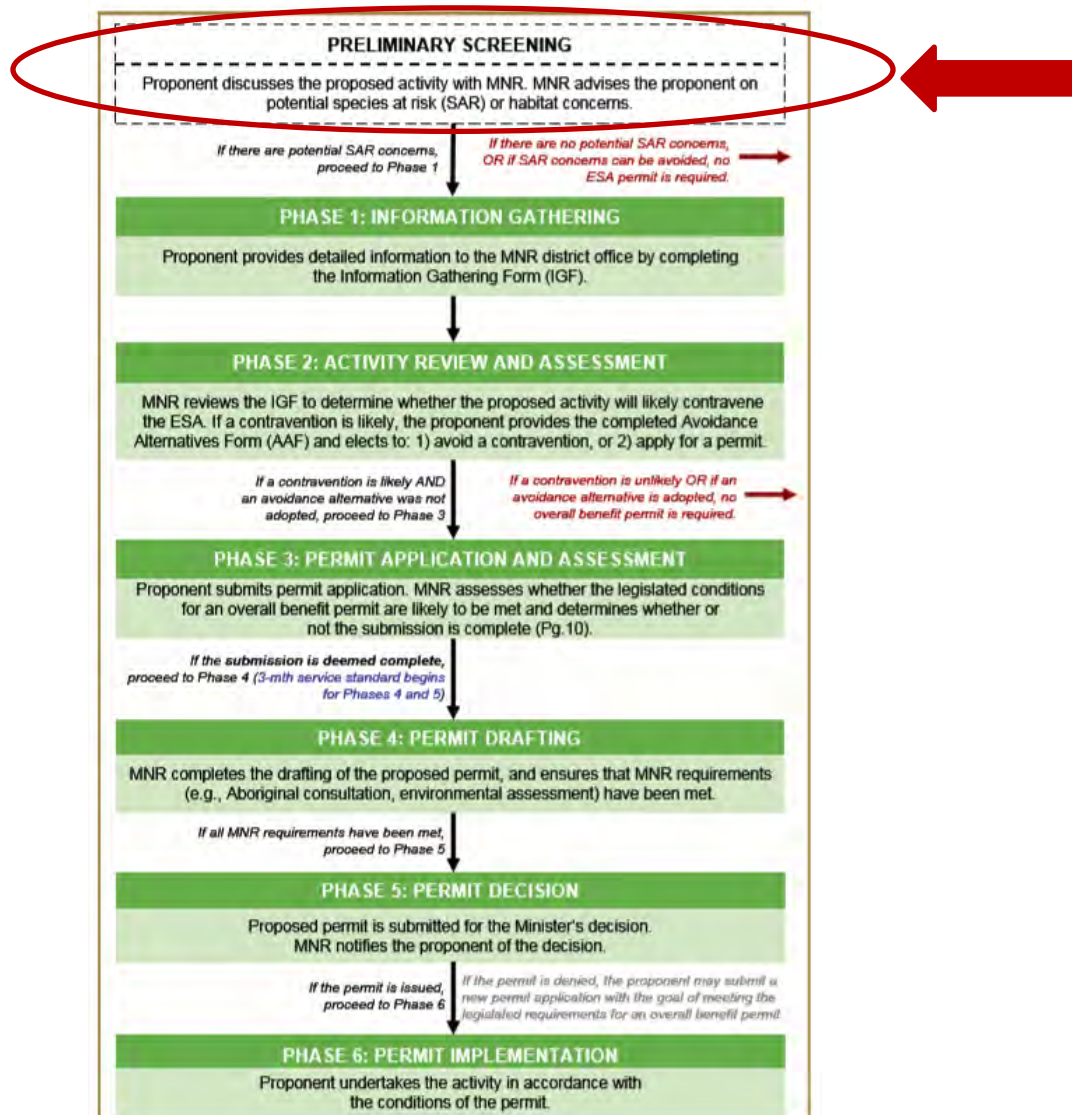
To provide the most efficient service, clients should initiate species at risk screenings and seek information from all applicable information sources identified in this guide, at a minimum, prior to contacting Government of Ontario ministry offices for further information or advice.

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 must first 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 SAROntario@ontario.ca 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 prior to 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. On-site 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-authorities/find-a-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/policy-guidance-harm-and-harass-under-endangered-species-act> and <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 it 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.

- ✓ 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: _____

- ✓ 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): _____

Chang, Jacqueline

From: Long, Andrew
Sent: Monday, July 25, 2022 5:09 PM
To: Chang, Jacqueline
Cc: Newton, Dorin/TOR
Subject: Fwd: MECP Response to Notice of Commencement - Schedule B Trunk Sanitary Sewer West End Trenton
Attachments: Supporting Attachment - Species at Risk Proponents Guide to Preliminary Screening (Draft May 2019).pdf; Supporting Attachment - Proponent's Intro to Delegation of Procedural Aspects of Consultation with Aboriginal Communities.docx; fjo_MECPNoticeofCommencementResponse_Quinte West_Trunk Sanitary Sewer_SchedB.pdf

Jacqueline, Please file and log accordingly.

Thanks,

Andrew Long, P.Eng, LEED GA | Jacobs | Project Manager, Buildings & Infrastructure | 416.499.0090 x73582 | 647.701.6622 | Andrew.Long3@jacobs.com | www.jacobs.com

Please consider the environment before printing this email.

Sent from my mobile

From: Orpana, Jon (MECP) <Jon.Orpana@ontario.ca>
Sent: Monday, July 25, 2022 4:32:27 PM
To: mattt@quintewest.ca <mattt@quintewest.ca>; Long, Andrew <andrew.long3@jacobs.com>
Cc: Fuller, Jacqueline (MECP) <Jacqueline.Fuller@ontario.ca>
Subject: [EXTERNAL] MECP Response to Notice of Commencement - Schedule B Trunk Sanitary Sewer West End Trenton

Dear Matt Tracey

Please find MECP's preliminary comments on the above mentioned file.

Enclosed and attached are some resources and links for the consideration of your study team.

Also enclosed is a list of indigenous communities who should be consulted with on your project.

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
Phone: (613) 548-6918
Fax: (613) 548-6908
Email: jon.orpana@ontario.ca

Chang, Jacqueline

From: Long, Andrew
Sent: Wednesday, July 27, 2022 10:22 AM
To: Chang, Jacqueline
Cc: Newton, Dorin/TOR
Subject: FW: [EXTERNAL] Fwd: EA West End Trenton

Please file and log this response by Matt to [REDACTED]

Thanks,

Andrew Long, P.Eng, LEED GA | [Jacobs](#) | Project Manager | O: 416.007.3582 | M: 647.701.6622 |
Andrew.Long3@jacobs.com

From: Matt Tracey <mattt@quintewest.ca>
Sent: Wednesday, July 27, 2022 8:04 AM
To: [REDACTED]
Cc: Long, Andrew <andrew.long3@jacobs.com>; Scott Pordham <scottp@quintewest.ca>; Brian Jardine <brianj@quintewest.ca>; Quinte West Mayor <mayor@quintewest.ca>; Jim Alyea <jim.alysa@quintewest.ca>; David McCue <david.mccue@quintewest.ca>; Chris Angelo <chrisa@quintewest.ca>
Subject: [EXTERNAL] Fwd: EA West End Trenton

Good morning [REDACTED], thank you for submitting your comments. They will be added to the project file. In response to your questions the Environmental Assessment is specific to the routing of the Trunk Sewer project that will ultimately service the West End of Trenton development. The boundaries for urban services were defined by the Official Plan and the project was further refined as part of the Master Planning exercise for Water and Wastewater Services. It is understood that there will be further development to the west in the future that will be serviced by this sewer project.

Regards,

Matt Tracey

Manager Water and Wastewater Services
Public Works and Environmental Services
City of Quinte West

[613.392.2841](tel:613.392.2841) x4482
mattt@quintewest.ca
www.quintewest.ca

----- Forwarded message -----

From: **Brian Jardine** <brianj@quintewest.ca>
Date: Tue, Jul 26, 2022 at 8:26 AM
Subject: Fwd: EA West End Trenton
To: Matt Tracey <mattt@quintewest.ca>

FYI

Brian Jardine

Director of Planning and Development Services
Planning and Development Services
City of Quinte West

613.392.2841 x 4467

613.920.3215 Cell

brianj@quintewest.ca

www.quintewest.ca

----- Forwarded message -----

From: <[REDACTED]>
Date: Mon, Jul 25, 2022 at 12:06 PM
Subject: EA West End Trenton
To: <mattt@quintewest.com>, <andrew.long3@jacobs.com>
Cc: Scott Pordham <scottp@quintewest.ca>, Brian Jardine <brianj@quintewest.ca>, <mayor@quintewest.ca>, <jim.alyea@quintewest.ca>, <david.mccue@quintewest.ca>

Good day,

I received notice of the Class Environmental Assessment Study for the west end of Trenton.

I am curious as to how the boundaries for the EA were established – specifically why the western boundary was established where it was and why it was not extended to County Road 40 and then down to Hwy 33.

The most recent OP proposals are showing significant future development to County Rd 40 and even beyond.

Thank you.

[REDACTED]



Virus-free. www.avg.com

Chang, Jacqueline

From: Long, Andrew
Sent: Monday, July 25, 2022 1:37 PM
To: Chang, Jacqueline
Cc: Newton, Dorin/TOR
Subject: FW: [EXTERNAL] EA West End Trenton

Hi Jacqueline,

Please file and log accordingly. I'll respond.

Thanks,

Andrew Long, P.Eng, LEED GA | [Jacobs](#) | Project Manager | O: 416.007.3582 | M: 647.701.6622 |
Andrew.Long3@jacobs.com

From: bradlittle444@gmail.com <bradlittle444@gmail.com>
Sent: Monday, July 25, 2022 12:06 PM
To: mattt@quintewest.com; Long, Andrew <andrew.long3@jacobs.com>
Cc: 'Scott Pordham' <scottp@quintewest.ca>; 'Brian Jardine' <brianj@quintewest.ca>; mayor@quintewest.ca; jim.alyea@quintewest.ca; david.mccue@quintewest.ca
Subject: [EXTERNAL] EA West End Trenton

Good day,

I received notice of the Class Environmental Assessment Study for the west end of Trenton.
I am curious as to how the boundaries for the EA were established – specifically why the western boundary was established where it was and why it was not extended to County Road 40 and then down to Hwy 33.
The most recent OP proposals are showing significant future development to County Rd 40 and even beyond.

Thank you.

[Brad Little](#)



Virus-free. www.avg.com

Chang, Jacqueline

From: Long, Andrew
Sent: Tuesday, July 26, 2022 9:38 AM
To: Chang, Jacqueline
Cc: Newton, Dorin/TOR
Subject: FW: Voice Mail (46 seconds)
Attachments: audio.mp3

[Another one to log](#)

Andrew Long, P.Eng, LEED GA | [Jacobs](#) | Project Manager | O: 416.007.3582 | M: 647.701.6622 |
Andrew.Long3@jacobs.com

From: [REDACTED]
Sent: Tuesday, July 26, 2022 9:31 AM
To: Long, Andrew <andrew.long3@jacobs.com>
Subject: Voice Mail (46 seconds)

Hello, my name is [REDACTED]. I'm a resident of Trenton. I am very interested in the classier schedule B for Trenton. And I want a lot more information on this project than what I'm seeing here in this little letter that was sent by you and Matt Tracy. So my phone number is [REDACTED] and I will probably send you an e-mail as well. So anyway, get back to me when you can. Thank you again [REDACTED]

You received a voice mail from [REDACTED]

Thank you for using Transcription! If you don't see a transcript above, it's because the audio quality was not clear enough to transcribe.

[Set Up Voice Mail](#)

Chang, Jacqueline

From: Long, Andrew
Sent: Wednesday, July 27, 2022 2:26 PM
To: Chang, Jacqueline
Cc: Newton, Dorin
Subject: FW: [EXTERNAL] Newspaper Coverage - Class EA Study Commencement
Attachments: NewspaperAd_ClassEAStudy_Commencement_CommunityPress_07-JUL-2022.pdf;
NewspaperAd_ClassEAStudy_Commencement_Trentonian_21-JUL-2022.pdf;
NewspaperAd_ClassEAStudy_Commencement_CommunityPress_21-JUL-2022.pdf;
NewspaperAd_ClassEAStudy_Commencement_Trentonian_07-JUL-2022.pdf

For filing and logging.

Thanks,

Andrew Long, P.Eng, LEED GA | Jacobs | Project Manager | O: 416.007.3582 | M: 647.701.6622 |
Andrew.Long3@jacobs.com

From: Lynette Lambert <lynette.lambert@quintewest.ca>
Sent: Wednesday, July 27, 2022 2:21 PM
To: Long, Andrew <andrew.long3@jacobs.com>
Cc: Matt Tracey <mattt@quintewest.ca>
Subject: [EXTERNAL] Newspaper Coverage - Class EA Study Commencement

Good Afternoon Andrew,

Please find attached copies of the advertisements that were published in the newspapers for the Class EA Study Notice of Commencement for the Trunk Sanitary Sewer - West End Trenton for your records.

Thank you

Lynette Lambert

Quality Management Technician
Public Works and Environmental Services
City of Quinte West

[613.392.2841](tel:613.392.2841) x4493
lynette.lambert@quintewest.ca
www.quintewest.ca

Chang, Jacqueline

From: Long, Andrew
Sent: Wednesday, July 27, 2022 9:41 PM
To: Chang, Jacqueline
Cc: Newton, Dorin
Subject: Fwd: [EXTERNAL] [Communications] New submission from Website Feedback Form

For filing and logging.

Thanks,

Andrew Long, P.Eng, LEED GA | Jacobs | Project Manager, Buildings & Infrastructure | 416.499.0090
x73582 | 647.701.6622 | Andrew.Long3@jacobs.com | www.jacobs.com

Please consider the environment before printing this email.

Sent from my mobile

From: [REDACTED]
Sent: Wednesday, July 27, 2022 9:16:01 PM
To: Long, Andrew <andrew.long3@jacobs.com>
Cc: [REDACTED]
Subject: Re: [EXTERNAL] [Communications] New submission from Website Feedback Form

Hello Andrew and [REDACTED]

I've reviewed the Trenton plans. I believe these plans were developed by people without considering the real future transportation needs of the City of Trenton. The plan is an ambitious step into the future minus the serious prerequisite of much better east west traffic corridors through the downtown section of Trenton itself. The need for those corridors to support population growth is obvious and has to involve other levels of government. This is too big a project for a small city. Expanding the population of Trenton significantly, while tempting, is asking for big trouble, not just because of traffic flow but because of the well understood serious health hazards that will ensue when vehicles are forced to sit and idle for hours in the downtown main street because they can't cross the bridge in a timely manner. I've personally experienced this very situation in Uxbridge, Ontario and it was ugly to say the least. Trenton will be far, far worse because there is no quick solution or indeed any solution in sight or even contemplated yet. That is a gruesome future to impose on downtown residents and especially the shopkeepers who will be trapped.

Every aspect of the plan was treated as an element to be developed in its own dimension with little attempt to integrate the result into the actual reality of the area's existing features. There is no reference at all to natural habitat or evolving traffic flow. Natural features are called "rural" at best.

You would think this was an alien planet being terra-formed. Trenton and the surrounding area is still one of the most beautiful parts of Ontario but it's been planned without any sense of natural features or aesthetic appreciation of what is here now that would enhance the living experience. This plan was developed using 1940s thinking for the very different needs of the 21st century where most people had better have a sound appreciation of the value of integrating natural habitat with human activities if they want to survive in an increasingly aggressive climate. There's lots of babbling in the media about sustainability but sustainability is not a goal worth attaining in a world where clean air, soil and water is declining and natural processes are broken or gone altogether..

Restoration of all aspects of natural habitat has to be part of the plan to avoid toxicity of air, soil and water. I don't see any mention of that in Trenton's plan for the future. I don't see any recognition of the fact that we are dealing with living things that are part of what keeps us alive on the land to be developed. Integration and restoration has to be partnered with development going forward.

For that reason, there needs to be planned and respected buffer zones integrated within and surrounding neighbourhoods. Those buffers zones need to be based on a thorough understanding of the requirements of what are known as foundational species. I would bet the entire town that Trenton's planners have no idea what foundation species much less why we need them.

These are the species that make life itself possible on earth. Destroying habitat indiscriminately does not respect this and ultimately harms all of us. Intermittent (vernal) ponds and streams that keep land fertile and productive are nowhere identified on the plans. How can you know not to build over them if you don't even know what they are or how vital they are to life itself?

There are no wildlife corridors anywhere identified. How can a zoning official assess land without having the faintest clue about the native importance of the land being zoned? It can't happen. Zoning officials are typically completely out of touch and insensitive to the land being zoned. That's how we ended up with concrete jungles and urban crime in addition to wasted environmental features and vanished natural attractions.

I don't see any of the buffer zones required by the Clean Water Act either. They should be and must be identified on any planning map. That is Ontario environmental law. That law is in place not only to prevent chemical runoff into waterways but also to provide need accommodation for migrating birds and butterflies. A healthy habitat is necessary for human health as well as natural health. From what I've seen since living here is the the area's vernal ponds and intermittent streams have been capped because I don't see any in local fields. That is habitat destruction and the intentional reduction of soil fertility.

Trenton is a tourist destination that seems bent on obliterating it self. The reasons for people to come here and live and enjoy an intelligently planned community where people can enjoy and experience nature without a fence between them and natural land are being eliminated. How many kids today get to experience walking through a field or climbing a tree as we did as children? Everything is squared off and paved over. Doing that puts everyone out of touch with nature. Doing that sets up an important equation: fewer people to defend against urban encroachment and unnatural living practices and a majority of people who are so out of touch they have never seen a frog or a toad in real life, have no idea what it is to plant a tree or breathe clean air in a wood land. Development and natural habitat need to be married in the planning stage to generate future living environments that don't drive local species to extinction.

As we discussed, the amphibian population is in serious decline in this area and throughout southern Ontario due entirely to destructive planning practices. The nearly complete absence of frogs and toads in my part of Trenton has resulted in a population explosion of ticks. Having the entire town infested with ticks is not a prospect to be contemplated. A tick bite can itch for six months or more and that's not counting what happens to you if you get Lyme disease. So part of what this development plan needs to encompass urgently is to figure out how to re-establish our amphibian populations before summer living here is untenable. That cannot and will not happen without lots of natural green space and restoration of wet lands and recovery of intermittent waterways that include vernal ponds.

There is a lot more to this trunk sewer proposal than meets the eye if you understand what you're looking at and the real stakes. The scope of work for this Environmental Assessment is far too narrow and addresses the elements as though it was a cardboard jigsaw puzzle instead of land that must support life for all species, not just us.

Failing to understand these concepts in the past is what has brought us Global Warming, Climate Change and an environment that is ramping up its retaliation.

When we were in school in Toronto in the 60s, our geography text books told us that southern Ontario received on average 20" of rainfall annually. That number today is 32". Where did that extra foot of rain and snow come from? Right now, Los Angeles, California is experiencing their worst ever drought with no end in sight. Their average precipitation is currently 12" less than normal for their area. If we continue to ignore the natural laws of the planet, things will just get worse. We have time to plan Trenton's growth intelligently and with respect for natural habitat at the same time without sacrificing the economic infrastructure or our human need for healthy communities.

On Jul 27, 2022, at 3:08 PM, Long, Andrew <andrew.long3@jacobs.com> wrote:

Hi [REDACTED]

As discussed, please see links below to the plans we discussed:

- 2021 Water and Wastewater Master Plan: [Plans - The City of Quinte West](#)
 - Click on the "+" next to "Water wastewater masterplan" and then click the link to open the pdf of the Master Plan document.
- 2013 Official Plan: [Official Plan - The City of Quinte West](#)

I will follow up with the City on your comments with respect to growth and transportation impacts, and official plan update schedule.

Thanks,

Andrew Long, P.Eng, LEED GA | [Jacobs](#) | Project Manager | O: 416.007.3582 | M: 647.701.6622 | Andrew.Long3@jacobs.com

From: Long, Andrew

Sent: Wednesday, July 27, 2022 2:30 PM

To: [REDACTED]

Cc: Matt Tracey <mattt@quintewest.ca>; Chang, Jacqueline <Jacqueline.Chang@jacobs.com>; Newton, Dorin/TOR <Dorin.Newton@jacobs.com>

Subject: RE: [EXTERNAL] Fwd: [Communications] New submission from Website Feedback Form

Hello,

Thank you for expressing interest in the West Trunk Sanitary Sewer Environmental Assessment (EA) project. Your comments are valued and will be added to the project file. You have received a copy of the Notice of Commencement as you have been identified as property owner within the study area. We're just at the start of the EA process, and through it we'll evaluate different alternative alignments for the new sewer which will consider environmental, cultural, social, technical, and financial implications of each. The analysis of alternatives and the preferred alignment will be presented at the Public Information Centre that will be scheduled in the next 6-8 weeks. You will have the opportunity to review the alternative alignments and provide additional comments on them if you wish.

Thanks again for providing your comments on this project! We'll include you in our mailing list and will provide you additional information as it becomes available.

Kind Regards,

Andrew Long, P.Eng, LEED GA | [Jacobs](#) | Project Manager | O: 416.007.3582 | M: 647.701.6622 | Andrew.Long3@jacobs.com

----- Forwarded message -----

From: **The City of Quinte West** <noreply@quintewest.ca>

Date: Wed, Jul 27, 2022 at 11:06 AM

Subject: [Communications] New submission from Website Feedback Form

To: <communications@quintewest.ca>

- **Help us improve our website with your feedback.**

- **Was this webpage helpful?** Not helpful
 - **Select a category below if you have specific feedback** Problem
 - **Feedback** This site is supposed to contain support information for the Public Notice that was sent June 28, 2022 by Matt Tracey, Mgr. of Water and Wastewater Services and Andrew Long, Project Manager at Jacobs, apparently the Consulting Engineers. My notice was a second notice. I don't recall a first. It arrived on July 27, nearly one month later. Being late, I expected progress to have been made with respect to providing relevant information that the public can use to make informed comments. So far I'm not seeing any of that, though I do intend to look further.
 - **Enter your email address below** [REDACTED]
 - **post_referred** <https://quintewest.ca/blog/notice-of-study-commencement-2/>
-

--

Quinte West Communications
Community Services and Strategic Partnerships
communications@quintewest.ca

You received this message because you are subscribed to the Google Groups "Communications" group. To unsubscribe from this group and stop receiving emails from it, send an email to communications+unsubscribe@quintewest.ca.

To view this discussion on the web

visit <https://groups.google.com/a/quintewest.ca/d/msgid/communications/Li6RlrV9eqw8ZC4HBDzQlcxsEwUc0fINrATPUsyqGE%40quintewest.ca>.

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Chang, Jacqueline

From: Long, Andrew
Sent: Wednesday, July 27, 2022 2:26 PM
To: Chang, Jacqueline
Cc: Newton, Dorin
Subject: FW: [EXTERNAL] Fwd: [Communications] New submission from Website Feedback Form

For filing and logging.

Thanks,

Andrew Long, P.Eng, LEED GA | [Jacobs](#) | Project Manager | O: 416.007.3582 | M: 647.701.6622 |
Andrew.Long3@jacobs.com

From: Lynette Lambert <lynette.lambert@quintewest.ca>
Sent: Wednesday, July 27, 2022 1:45 PM
To: Matt Tracey <mattt@quintewest.ca>; Long, Andrew <andrew.long3@jacobs.com>
Subject: [EXTERNAL] Fwd: [Communications] New submission from Website Feedback Form

Good Afternoon,

Please follow up with the email comment below.

Thank you

Lynette Lambert

Quality Management Technician
Public Works and Environmental Services
City of Quinte West

[613.392.2841](tel:613.392.2841) x4493
lynette.lambert@quintewest.ca
www.quintewest.ca

----- Forwarded message -----

From: Rochelle Box <rochelle.box@quintewest.ca>
Date: Wed, Jul 27, 2022 at 11:42 AM
Subject: Fwd: [Communications] New submission from Website Feedback Form
To: Lynette Lambert <lynette.lambert@quintewest.ca>

Hi Lynette,

We just received this website feedback regarding the environmental assessment study. I'm not entirely sure what information is being requested, but I am wondering if you can follow up with this individual.

Rochelle Box

Communications Officer
Community Services and Strategic Partnerships
City of Quinte West
[613.392.2841](tel:613.392.2841) x 4519
[613.403.7737](tel:613.403.7737) Cell

rochelle.box@quintewest.ca

www.quintewest.ca

----- Forwarded message -----

From: **The City of Quinte West** <noreply@quintewest.ca>

Date: Wed, Jul 27, 2022 at 11:06 AM

Subject: [Communications] New submission from Website Feedback Form

To: <communications@quintewest.ca>

- **Help us improve our website with your feedback.**

- **Was this webpage helpful?** Not helpful
 - **Select a category below if you have specific feedback** Problem
 - **Feedback** This site is supposed to contain support information for the Public Notice that was sent June 28, 2022 by Matt Tracey, Mgr. of Water and Wastewater Services and Andrew Long, Project Manager at Jacobs, apparently the Consulting Engineers. My notice was a second notice. I don't recall a first. It arrived on July 27, nearly one month later. Being late, I expected progress to have been made with respect to providing relevant information that the public can use to make informed comments. So far I'm not seeing any of that, though I do intend to look further.
 - **Enter your email address below** [REDACTED]
 - **post_referred** <https://quintewest.ca/blog/notice-of-study-commencement-2/>
-

--
Quinte West Communications
Community Services and Strategic Partnerships
communications@quintewest.ca

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<https://groups.google.com/a/quintewest.ca/d/msgid/communications/Li6RlrV9eqw8ZC4HBDzQlcxsEwUc0fINrATPUsyqGE%40quintewest.ca>.

Chang, Jacqueline

From: Long, Andrew
Sent: Wednesday, July 27, 2022 2:30 PM
To: [REDACTED]
Cc: Matt Tracey; Chang, Jacqueline; Newton, Dorin
Subject: RE: [EXTERNAL] Fwd: [Communications] New submission from Website Feedback Form

Hello,

Thank you for expressing interest in the West Trunk Sanitary Sewer Environmental Assessment (EA) project. Your comments are valued and will be added to the project file. You have received a copy of the Notice of Commencement as you have been identified as property owner within the study area. We're just at the start of the EA process, and through it we'll evaluate different alternative alignments for the new sewer which will consider environmental, cultural, social, technical, and financial implications of each. The analysis of alternatives and the preferred alignment will be presented at the Public Information Centre that will be scheduled in the next 6-8 weeks. You will have the opportunity to review the alternative alignments and provide additional comments on them if you wish.

Thanks again for providing your comments on this project! We'll include you in our mailing list and will provide you additional information as it becomes available.

Kind Regards,

Andrew Long, P.Eng, LEED GA | [Jacobs](#) | Project Manager | O: 416.007.3582 | M: 647.701.6622 |
Andrew.Long3@jacobs.com

----- Forwarded message -----

From: The City of Quinte West <noreply@quintewest.ca>
Date: Wed, Jul 27, 2022 at 11:06 AM
Subject: [Communications] New submission from Website Feedback Form
To: <communications@quintewest.ca>

• **Help us improve our website with your feedback.**

-
- **Was this webpage helpful?** Not helpful
 - **Select a category below if you have specific feedback** Problem
 - **Feedback** This site is supposed to contain support information for the Public Notice that was sent June 28, 2022 by Matt Tracey, Mgr. of Water and Wastewater Services and Andrew Long, Project Manager at Jacobs, apparently the Consulting Engineers. My notice was a second notice. I don't recall a first. It arrived on July 27, nearly one month later. Being late, I expected progress to have been made with respect to providing relevant information that the public can use to make informed comments. So far I'm not seeing any of that, though I do intend to look further.
 - **Enter your email address below** [REDACTED]
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Quinte West Communications
Community Services and Strategic Partnerships
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Chang, Jacqueline

From: Long, Andrew
Sent: Wednesday, July 27, 2022 3:08 PM
To: [REDACTED]
Cc: Matt Tracey; Chang, Jacqueline; Newton, Dorin
Subject: RE: [EXTERNAL] Fwd: [Communications] New submission from Website Feedback Form

Hi John,

As discussed, please see links below to the plans we discussed:

- 2021 Water and Wastewater Master Plan: [Plans - The City of Quinte West](#)
 - Click on the “+” next to “Water wastewater masterplan” and then click the link to open the pdf of the Master Plan document.
- 2013 Official Plan: [Official Plan - The City of Quinte West](#)

I will follow up with the City on your comments with respect to growth and transportation impacts, and official plan update schedule.

Thanks,

Andrew Long, P.Eng, LEED GA | [Jacobs](#) | Project Manager | O: 416.007.3582 | M: 647.701.6622 | Andrew.Long3@jacobs.com

From: Long, Andrew
Sent: Wednesday, July 27, 2022 2:30 PM
To: [REDACTED]
Cc: Matt Tracey <mattd@quintewest.ca>; Chang, Jacqueline <Jacqueline.Chang@jacobs.com>; Newton, Dorin/TOR <Dorin.Newton@jacobs.com>
Subject: RE: [EXTERNAL] Fwd: [Communications] New submission from Website Feedback Form

Hello,

Thank you for expressing interest in the West Trunk Sanitary Sewer Environmental Assessment (EA) project. Your comments are valued and will be added to the project file. You have received a copy of the Notice of Commencement as you have been identified as property owner within the study area. We're just at the start of the EA process, and through it we'll evaluate different alternative alignments for the new sewer which will consider environmental, cultural, social, technical, and financial implications of each. The analysis of alternatives and the preferred alignment will be presented at the Public Information Centre that will be scheduled in the next 6-8 weeks. You will have the opportunity to review the alternative alignments and provide additional comments on them if you wish.

Thanks again for providing your comments on this project! We'll include you in our mailing list and will provide you additional information as it becomes available.

Kind Regards,

Andrew Long, P.Eng, LEED GA | [Jacobs](#) | Project Manager | O: 416.007.3582 | M: 647.701.6622 | Andrew.Long3@jacobs.com

----- Forwarded message -----

From: **The City of Quinte West** <noreply@quintewest.ca>

Date: Wed, Jul 27, 2022 at 11:06 AM

Subject: [Communications] New submission from Website Feedback Form

To: <communications@quintewest.ca>

- **Help us improve our website with your feedback.**

-
- **Was this webpage helpful?** Not helpful
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 - **Feedback** This site is supposed to contain support information for the Public Notice that was sent June 28, 2022 by Matt Tracey, Mgr. of Water and Wastewater Services and Andrew Long, Project Manager at Jacobs, apparently the Consulting Engineers. My notice was a second notice. I don't recall a first. It arrived on July 27, nearly one month later. Being late, I expected progress to have been made with respect to providing relevant information that the public can use to make informed comments. So far I'm not seeing any of that, though I do intend to look further.
 - **Enter your email address below** [REDACTED]
 - **post_referred** <https://quintewest.ca/blog/notice-of-study-commencement-2/>

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Community Services and Strategic Partnerships
communications@quintewest.ca

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<https://groups.google.com/a/quintewest.ca/d/msgid/communications/Li6RlrV9eqw8ZC4HBDzQlcxEwUc0fINrATPUsyqGE%40quintewest.ca>.

Chang, Jacqueline

From: Long, Andrew
Sent: Wednesday, July 27, 2022 10:08 AM
To: Chang, Jacqueline
Cc: Newton, Dorin/TOR
Subject: FW: Voice Mail (36 seconds)
Attachments: audio.mp3

[Another one to log.](#)

Thanks,

Andrew Long, P.Eng, LEED GA | [Jacobs](#) | Project Manager | O: 416.007.3582 | M: 647.701.6622 |
Andrew.Long3@jacobs.com

From: [REDACTED]
Sent: Wednesday, July 27, 2022 9:49 AM
To: Long, Andrew <andrew.long3@jacobs.com>
Subject: Voice Mail (36 seconds)

Hello, my name is [REDACTED] in Trenton and my phone number is [REDACTED] and I'm calling about the class environmental assessment study. Notice of commencement that was sent out on June the 28th and it is now July 27th. And I only got this two days ago, so 1 month has passed and I want to get on this. So please call me back.
Thank you, [REDACTED]

You received a voice mail from [REDACTED]

Thank you for using Transcription! If you don't see a transcript above, it's because the audio quality was not clear enough to transcribe.

[Set Up Voice Mail](#)

Chang, Jacqueline

From: Long, Andrew
Sent: Tuesday, August 2, 2022 7:24 AM
To: Chang, Jacqueline
Subject: Fwd: [EXTERNAL] Fwd: Notice of Commencement - Trunk Sanitary Sewer - West End Trenton

Categories: Red Category

For logging and filing.

Thanks,

Andrew Long, P.Eng, LEED GA | Jacobs | Project Manager, Buildings & Infrastructure | 416.499.0090
x73582 | 647.701.6622 | Andrew.Long3@jacobs.com | www.jacobs.com

Please consider the environment before printing this email.

Sent from my mobile

From: Matt Tracey <mattt@quintewest.ca>
Sent: Tuesday, August 2, 2022 6:40:02 AM
To: Long, Andrew <andrew.long3@jacobs.com>
Cc: Lynette Lambert <lynette.lambert@quintewest.ca>
Subject: [EXTERNAL] Fwd: Notice of Commencement - Trunk Sanitary Sewer - West End Trenton

For a response and the project file. Thanks.

----- Forwarded message -----

From: [REDACTED]
Date: Mon., Aug. 1, 2022, 8:50 a.m.
Subject: Notice of Commencement - Trunk Sanitary Sewer - West End Trenton
To: mattt@quintewest.ca <mattt@quintewest.ca>

Good morning,

My name is [REDACTED] and I own a property [REDACTED] which is likely right in the heart of where you plan to run a new trunk line.

Given the explosion of traffic on the south side of 2nd Dug Hill Road, the current rural chip/tar road is simply inadequate. Public works is on the road on a weekly basis fixing potholes, and there is absolutely no shoulder on the road, which is becoming more of a problem due to heightened pedestrian traffic. The ideal solution, I would think, would be to properly pave the street, install a sidewalk (at least as far as where Staikos will develop the land just to the north of the city owned property @ 183 2nd Dug), and install main sewer/water lines connecting Highway 2 and Highway 33). The road has to be addressed anyway in a major way in the next few years, so using this as the path to accommodate the hundreds of housing units that will be built off 2nd Dug Hill would likely be the path of least resistance, and one I would support as one of the property owners with the most frontage on this street.

Kind regards,

Chang, Jacqueline

From: Long, Andrew
Sent: Tuesday, August 2, 2022 8:45 AM
To: [REDACTED]
Cc: Lynette Lambert; Matt Tracey; Chang, Jacqueline; Newton, Dorin
Subject: RE: [EXTERNAL] Fwd: Notice of Commencement - Trunk Sanitary Sewer - West End Trenton

Hi [REDACTED]

Thank you for expressing interest in the West Trunk Sanitary Sewer Environmental Assessment (EA) project. Your comments are valued and will be added to the project file. We're at the start of the EA process, and through it we'll evaluate different alternative alignments for the new sewer (some of which go down a section of 2nd Dug Hill Rd) which will consider environmental, cultural, social, technical, and financial implications of each. The analysis of alternatives and the preferred alignment will be presented at the Public Information Centre that will be scheduled in the next 8 weeks. You will have the opportunity to review the alternative alignments and provide additional comments on them if you wish.

Thanks again for providing your comments on this project! We'll include you in our mailing list and will provide you additional information as it becomes available.

Kind Regards,

Andrew Long, P.Eng, LEED GA | [Jacobs](#) | Project Manager | O: 416.007.3582 | M: 647.701.6622 |
Andrew.Long3@jacobs.com

----- Forwarded message -----

From: [REDACTED] >
Date: Mon., Aug. 1, 2022, 8:50 a.m.
Subject: Notice of Commencement - Trunk Sanitary Sewer - West End Trenton
To: mattt@quintewest.ca <mattt@quintewest.ca>

Good morning,

My name is [REDACTED], and I own a property [REDACTED] which is likely right in the heart of where you plan to run a new trunk line.

Given the explosion of traffic on the south side of 2nd Dug Hill Road, the current rural chip/tar road is simply inadequate. Public works is on the road on a weekly basis fixing potholes, and there is absolutely no shoulder on the road, which is becoming more of a problem due to heightened pedestrian traffic. The ideal solution, I would think, would be to properly pave the street, install a sidewalk (at least as far as where Staikos will develop the land just to the north of the city owned property @ 183 2nd Dug), and install main sewer/water lines connecting Highway 2 and Highway 33). The road has to be addressed anyway in a major way in the next few years, so using this as the path to accommodate the hundreds of housing units that will be built off 2nd Dug Hill would likely be the path of least resistance, and one I would support as one of the property owners with the most frontage on this street.

Kind regards,



Ministry of Tourism, Culture and Sport

Programs and Services Branch
400 University Ave, 5th Flr
Toronto, ON M7A 2R9
Tel: 437-239-3404

Ministère du Tourisme, Culture et Sport

Direction des programmes et des services
400, av. University, 5e étage
Toronto, ON M7A 2R9
Tel: 437-239-3404



August 3, 2022

EMAIL ONLY

Matt Tracey
Manager Water & Wastewater Services
Public Works & Environment Services
City of Quinte West
mattt@quintewest.ca

MTCS File : 0017090
Proponent : City of Quinte West
Subject : Schedule B Municipal Class EA - Notice of Commencement
Project : Trunk Sanitary Sewer, West End Trenton
Location : City of Quinte West

Dear Mr. Tracey:

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

- archaeological resources, including land 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 City of Quinte West is undertaking a Municipal Class Environmental Assessment (EA) Study to identify, develop and implement a solution to address future capacity needs and existing sanitary sewer issues in the West end of Trenton.

The West End Trunk Sanitary Sewer services a large area that is projected to experience substantial growth. Therefore, this study is to ensure reliable sanitary service is provided to existing areas and future growth areas.

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 MTCS [Criteria for Evaluating Archaeological Potential](#) to determine if an archaeological assessment is needed. MTCS archaeological sites data are available at archaeology@ontario.ca.

If the EA project area exhibits archaeological potential, then an archaeological assessment (AA) shall be undertaken by an archaeologist licenced under the *Ontario Heritage Act (OHA)*, who is responsible for submitting the report directly to MTCS for review.

Built Heritage Resources and Cultural Heritage Landscapes

The MTCS [Criteria for Evaluating Potential for Built Heritage Resources and Cultural Heritage Landscapes](#) should be completed to help determine whether this EA project may impact built heritage resources and/or cultural heritage landscapes.

If known or potential built heritage resources and/or cultural heritage landscapes are present, a Cultural Heritage Report: Existing Conditions and Preliminary Impact Assessment should be undertaken for the entire study area during the planning phase, to be summarized in the EA Report. This study will:

1. 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.
2. Identify preliminary potential project-specific impacts 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.

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 MTCS whether any technical cultural heritage studies will be completed for this EA project, and provide them to MTCS before issuing a Notice of Completion. 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 MTCS 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,

Laura Hatcher
Heritage Planner
laura.e.hatcher@ontario.ca

Copied to: Andrew Long, Project Manager, Jacobs

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

Please notify MTCS (at archaeology@ontario.ca) 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 and coroner must be contacted. In situations where human remains are associated with archaeological resources, MTCS should also be notified (at archaeology@ontario.ca) to ensure that the site is not subject to unlicensed alterations which would be a contravention of the Ontario Heritage Act.

Chang, Jacqueline

From: Long, Andrew
Sent: Wednesday, August 3, 2022 3:30 PM
To: Newton, Dorin; Chang, Jacqueline
Subject: Fwd: File 0017090: Quinte West - West End Trenton Trunk Sanitary Sewer - Environmental Assessment - Notice of Commencement
Attachments: 2022-08-03 SanitarySewer-WestEndTrenton.pdf

For filing and logging

Dorin please review and advise of anything worth noting.

Thanks,

Andrew Long, P.Eng, LEED GA | Jacobs | Project Manager, Buildings & Infrastructure | 416.499.0090 x73582 | 647.701.6622 | Andrew.Long3@jacobs.com | www.jacobs.com

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Sent from my mobile

From: Hatcher, Laura (MTCS) <Laura.E.Hatcher@ontario.ca>
Sent: Wednesday, August 3, 2022 2:40:19 PM
To: mattt@quintewest.ca <mattt@quintewest.ca>
Cc: Long, Andrew <andrew.long3@jacobs.com>
Subject: [EXTERNAL] FW: File 0017090: Quinte West - West End Trenton Trunk Sanitary Sewer - Environmental Assessment - Notice of Commencement

Good afternoon,

Thank you for contacting the Ministry of Tourism, Culture and Sport about this project. Please find attached a letter with comments from MTCS.

Sincerely,

Laura

Laura Hatcher, MCIP, RPP
Heritage Planner
Heritage Planning Unit | Programs and Services Branch | Heritage, Tourism and Culture Division
Ministry of Tourism, Culture and Sport
Tel. 437-239-3404 **New** | email: laura.e.hatcher@ontario.ca

From: Long, Andrew/TOR <andrew.long3@jacobs.com>
Sent: June-29-22 2:23 PM
To: Matt Tracey <mattt@quintewest.ca>; Long, Andrew/TOR <andrew.long3@jacobs.com>
Subject: Quinte West - West End Trenton Trunk Sanitary Sewer - Environmental Assessment - Notice of Commencement

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

Good afternoon,

The City of Quinte West is undertaking a Schedule 'B' Municipal Class Environmental Assessment (EA) for the proposed West End Trenton Trunk Sanitary Sewer. For your information, please see attached the Notice of Commencement for this Class EA with a brief description of the project. For further information please see the City's project website here: <https://quintewest.ca/blog/notice-of-study-commencement-2>

As part of the study's consultation program, you are currently included in the contact list. If you wish to be removed or would like to suggest an alternative representative, please contact one of the Jacobs or City representatives listed below. Should we not hear from you, you will continue to be notified of all future consultation opportunities throughout the rest of the EA study.

Should you have any questions, please do not hesitate to contact us.

Thank you,

Andrew Long, P.Eng, LEED GA | [Jacobs](#) | Project Manager | O: 416.007.3582 | M: 647.701.6622 | Andrew.Long3@jacobs.com

On behalf of

Matt Tracey

Manager Water & Wastewater Services

Public Works & Environment Services

City of Quinte West, 7 Creswell Dr, PO Box 490

Trenton, ON, K8V 5R6

T: 613-392-2841 x4482 | F: 613-392-7151 T: 437-780-2441

Email: mattt@quintewest.ca

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Quinte West - West Trunk Sanitary Sewer - Environmental Assessment - N...



Long, Andrew

To: Long, Andrew

Bcc: Marie-Sophie.Gendron@wendake.ca; inquiries@williamstreatiesfirstnations.ca;
denisp@ramafirstnation.ca; facilities@ramafirstnation.ca



3:09 PM



Good afternoon,

The City of Quinte West is undertaking a Schedule 'B' Municipal Class Environmental Assessment (EA) for the proposed West End Trenton Trunk Sanitary Sewer. For your information, please see attached the Notice of Commencement for this Class EA with a brief description of the project. For further information please see the City's project website here: <https://quintewest.ca/blog/notice-of-study-commencement-2>

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Andrew.Long3@jacobs.com

On behalf of

Matt Tracey
Manager Water & Wastewater Services
Public Works & Environment Services
City of Quinte West, 7 Creswell Dr, PO Box 490
Trenton, ON, K8V 5B6
T: 613-392-2841 x4482 | F: 613-392-7151 T: 437-780-2441
Email: mattt@quintewest.ca

Chang, Jacqueline

From: [REDACTED]
Sent: Monday, August 8, 2022 2:03 PM
To: Long, Andrew
Cc: Lynette Lambert; Matt Tracey; Chang, Jacqueline; Newton, Dorin
Subject: Re: [EXTERNAL] Fwd: Class Environmental Assessment

Good afternoon Matt,

Trust you had a great vacation. Thank you for your quick reply.

I can't say that I understand your logic when you said "the study area shown on the Notice of Commencement was determined based on the potential alignments of the new West TSS and not based on lands that can be serviced.", especially when you went on to say that the placement and depth will affect the lands that it could service.

Are you able to share with me the potential alignments for the West TSS that you referenced along with the applicable areas that they will service? This information is critical for residents to review in order to provide relevant comments and feedback.

Can you also provide me with a copy or link to the 2021 Water and Wastewater Master Plan?

Is the area I referenced that is south of Highway 33 and currently not included in the Class Environment Assessment Study, identified in the Master Plan for wastewater services? If not, how do residents in this area go about requesting that this area be considered for sanitary services?

Thanks in advance for your assistance and information and for the opportunity to provide feedback.

[REDACTED]
Sent from my iPhone

On Aug 8, 2022, at 9:54 AM, Long, Andrew <andrew.long3@jacobs.com> wrote:

Hi [REDACTED]

Thank you for expressing interest in the West Trunk Sanitary Sewer (TSS) Environmental Assessment (EA) project. Your comments are valued and will be added to the project file.

The primary purpose of the West TSS is to service the growth areas identified as part of the 2021 Water and Wastewater Master Plan around the intersection of Highway 2 and 2nd Dug Hill Rd. The study area shown in the Notice of Commencement was determined based on the potential alignments of the new West TSS and not based on lands that can be serviced by it. However, it's ultimate placement as well as depth will affect the lands that it could service. The alternative alignments will be examined through the EA considering technical, environmental, social/cultural, and financial factors, and the preferred alternative presented at the Public Information Centre to be held in the next 8 weeks.

Thanks again for providing your comments on this project! We'll include you in our mailing list and will provide you additional information as it becomes available. In the meantime, please let us know if you have any additional questions or comments.

Kind Regards,

Andrew Long, P.Eng, LEED GA | [Jacobs](#) | Project Manager | O: 416.007.3582 | M: 647.701.6622 | Andrew.Long3@jacobs.com

----- Forwarded message -----

From: [REDACTED] >
Date: Fri, Jul 29, 2022 at 10:32 AM
Subject: Class Environmental Assessment
To: <mattt@quintewest.ca>

Hi Matt,

In the notice of commencement it states that the study is to identify/develop and implement a solution to address future capacity needs and existing sanitary sewer issues in the West end of Trenton, yet the area south of Carrying Place Road is excluded.

Can you please explain to me why the area to the south of Carrying Place Road is not included in the environmental assessment?

Thanks

[REDACTED]

Sent from my iPhone

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Chang, Jacqueline

From: Long, Andrew
Sent: Monday, August 8, 2022 9:54 AM
To: [REDACTED]
Cc: Lynette Lambert; Matt Tracey; Chang, Jacqueline; Newton, Dorin
Subject: RE: [EXTERNAL] Fwd: Class Environmental Assessment

Hi [REDACTED]

Thank you for expressing interest in the West Trunk Sanitary Sewer (TSS) Environmental Assessment (EA) project. Your comments are valued and will be added to the project file.

The primary purpose of the West TSS is to service the growth areas identified as part of the 2021 Water and Wastewater Master Plan around the intersection of Highway 2 and 2nd Dug Hill Rd. The study area shown in the Notice of Commencement was determined based on the potential alignments of the new West TSS and not based on lands that can be serviced by it. However, it's ultimate placement as well as depth will affect the lands that it could service. The alternative alignments will be examined through the EA considering technical, environmental, social/cultural, and financial factors, and the preferred alternative presented at the Public Information Centre to be held in the next 8 weeks.

Thanks again for providing your comments on this project! We'll include you in our mailing list and will provide you additional information as it becomes available. In the meantime, please let us know if you have any additional questions or comments.

Kind Regards,

Andrew Long, P.Eng, LEED GA | [Jacobs](#) | Project Manager | O: 416.007.3582 | M: 647.701.6622 |
Andrew.Long3@jacobs.com

----- Forwarded message -----

From: [REDACTED]
Date: Fri, Jul 29, 2022 at 10:32 AM
Subject: Class Environmental Assessment
To: <mattt@quintewest.ca>

Hi Matt,

In the notice of commencement it states that the study is to identify/develop and implement a solution to address future capacity needs and existing sanitary sewer issues in the West end of Trenton, yet the area south of Carrying Place Road is excluded.

Can you please explain to me why the area to the south of Carrying Place Road is not included in the environmental assessment?

Thanks

[REDACTED]

Sent from my iPhone

Chang, Jacqueline

From: Long, Andrew
Sent: Monday, August 8, 2022 3:03 PM
To: [REDACTED]
Cc: Lynette Lambert; Matt Tracey; Chang, Jacqueline; Newton, Dorin
Subject: RE: [EXTERNAL] Fwd: Class Environmental Assessment

Hi [REDACTED]

The City of Quinte West completed a Water and Wastewater Master Plan in 2021 which examined the projected growth areas in the City and identified the water and wastewater infrastructure required to service these areas. The West Trunk Sanitary Sewer (TSS) project was one of the projects identified within the plan which is available here: [Plans - The City of Quinte West](#). Click on the “+” next to “Water wastewater masterplan” and then click the link to open the pdf of the Master Plan document.

We’re still in the process of developing and evaluating the alternative alignments for the proposed West TSS per the EA process. The Public Information Centre (PIC) will be held to present this analysis and obtain feedback from residents and stakeholders. The PIC date has not yet been finalized, however is planned for September.

The scope of the current EA is the West TSS which is designed to service the planned growth in areas west of the Highway 2 and 2nd Dug Hill Rd intersection. With respect to your question about potential servicing of the area south of Highway 33, I’m not sure what the process is for requesting new sanitary servicing and will follow up with the City to confirm.

Thanks again for providing your comments on this project! We’ll include you in our mailing list and will provide you additional information as it becomes available. In the meantime, please let us know if you have any additional questions or comments.

Kind Regards,

Andrew Long, P.Eng, LEED GA | [Jacobs](#) | Project Manager | O: 416.007.3582 | M: 647.701.6622 | Andrew.Long3@jacobs.com

From: [REDACTED]
Sent: Monday, August 8, 2022 2:03 PM
To: Long, Andrew <andrew.long3@jacobs.com>
Cc: Lynette Lambert <lynette.lambert@quintewest.ca>; Matt Tracey <mathtt@quintewest.ca>; Chang, Jacqueline <Jacqueline.Chang@jacobs.com>; Newton, Dorin <Dorin.Newton@jacobs.com>
Subject: Re: [EXTERNAL] Fwd: Class Environmental Assessment

Good afternoon Matt,

Trust you had a great vacation. Thank you for your quick reply.

I can’t say that I understand your logic when you said “the study area shown on the Notice of Commencement was determined based on the potential alignments of the new West TSS and not based on lands that can be serviced.”, especially when you went on to say that the placement and depth will affect the lands that it could service.

Are you able to share with me the potential alignments for the West TSS that you referenced along with the applicable areas that they will service? This information is critical for residents to review in order to provide relevant comments and feedback.

Can you also provide me with a copy or link to the 2021 Water and Wastewater Master Plan?

Is the area I referenced that is south of Highway 33 and currently not included in the Class Environment Assessment Study, identified in the Master Plan for wastewater services? If not, how do residents in this area go about requesting that this area be considered for sanitary services?

Thanks in advance for your assistance and information and for the opportunity to provide feedback.

[REDACTED]
Sent from my iPhone

On Aug 8, 2022, at 9:54 AM, Long, Andrew <andrew.long3@jacobs.com> wrote:

Hi [REDACTED]

Thank you for expressing interest in the West Trunk Sanitary Sewer (TSS) Environmental Assessment (EA) project. Your comments are valued and will be added to the project file.

The primary purpose of the West TSS is to service the growth areas identified as part of the 2021 Water and Wastewater Master Plan around the intersection of Highway 2 and 2nd Dug Hill Rd. The study area shown in the Notice of Commencement was determined based on the potential alignments of the new West TSS and not based on lands that can be serviced by it. However, it's ultimate placement as well as depth will affect the lands that it could service. The alternative alignments will be examined through the EA considering technical, environmental, social/cultural, and financial factors, and the preferred alternative presented at the Public Information Centre to be held in the next 8 weeks.

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Kind Regards,

Andrew Long, P.Eng, LEED GA | Jacobs | Project Manager | O: 416.007.3582 | M: 647.701.6622 |
Andrew.Long3@jacobs.com

----- Forwarded message -----

From: [REDACTED]
Date: Fri, Jul 29, 2022 at 10:32 AM
Subject: Class Environmental Assessment
To: <mattt@quintewest.ca>

Hi Matt,

In the notice of commencement it states that the study is to identify/develop and implement a solution to address future capacity needs and existing sanitary sewer issues in the West end of Trenton, yet the area south of Carrying Place Road is excluded.

Can you please explain to me why the area to the south of Carrying Place Road is not included in the environmental assessment?

Thanks



Sent from my iPhone

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Chang, Jacqueline

From: Long, Andrew
Sent: Monday, August 8, 2022 8:50 AM
To: Chang, Jacqueline; Newton, Dorin
Subject: Fwd: [EXTERNAL] Fwd: Class Environmental Assessment

Hi Jacqueline,

Another one to log and file.

Thanks,

Andrew Long, P.Eng, LEED GA | Jacobs | Project Manager, Buildings & Infrastructure | 416.499.0090 x73582 | 647.701.6622 | Andrew.Long3@jacobs.com | www.jacobs.com

Please consider the environment before printing this email.

Sent from my mobile

From: Matt Tracey <mattt@quintewest.ca>
Sent: Monday, August 8, 2022 7:40:12 AM
To: Long, Andrew <andrew.long3@jacobs.com>
Cc: Lynette Lambert <lynette.lambert@quintewest.ca>
Subject: [EXTERNAL] Fwd: Class Environmental Assessment

Andrew, can you provide a response when you have a moment. Thanks

Matt Tracey

Manager Water and Wastewater Services
Public Works and Environmental Services
City of Quinte West

[613.392.2841](tel:613.392.2841) x4482
mattt@quintewest.ca
www.quintewest.ca

----- Forwarded message -----

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Thanks

[REDACTED]

Sent from my iPhone

Chang, Jacqueline

From: Long, Andrew
Sent: Monday, August 8, 2022 2:48 PM
To: [REDACTED]
Cc: Newton, Dorin; Chang, Jacqueline; Matt Tracey
Subject: RE: [EXTERNAL] Fwd: Trunk Sanitary Sewer Environmental Assessment

Hi [REDACTED]

Apologies for the delay in getting back to your email. Thank you for expressing interest in the West Trunk Sanitary Sewer (TSS) Environmental Assessment (EA) project. Your comments are valued and will be added to the project file.

The latest information for the West TSS EA project is available at this website: [Notice of study commencement - The City of Quinte West](#). We're still in the process of developing and evaluating the alternative alignments for the proposed West TSS per the EA process. The Public Information Centre (PIC) will be held to present this analysis and obtain feedback from residents and stakeholders. The PIC date has not yet been finalized, however is planned for September.

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Kind Regards,

Andrew Long, P.Eng, LEED GA | [Jacobs](#) | Project Manager | O: 416.007.3582 | M: 647.701.6622 | Andrew.Long3@jacobs.com

----- Forwarded message -----

From: [REDACTED]
Date: Fri, Jul 22, 2022 at 12:46 PM
Subject: Fwd: Trunk Sanitary Sewer Environmental Assessment
To: <mattt@quintewest.ca>

> Dear Mr Tracey:

>

> I received a Notice of Commencement for the Trunk Sanitary Sewer Environmental Assessment today in the mail. As the owner of a property bordering on the area I have many concerns about this issue. Last year I tried to obtain more information from the city planners but received very little.

>

> This notice states that there will be a PIC this summer but it is already July and I have not heard of a date for that yet. I have also attempted to access the city website but that has been down for several days. The last time I looked, the maps were woefully out of date anyway.

>

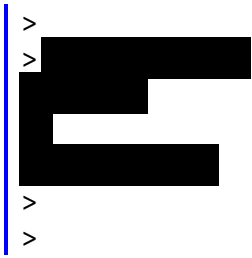
> Please provide me with any information that you have on this subject.

>

> Sincerely,

>

> [REDACTED]



Chang, Jacqueline

From: Long, Andrew
Sent: Monday, August 15, 2022 10:00 AM
To: [REDACTED]
Cc: Chang, Jacqueline
Subject: RE: [EXTERNAL] [Communications] New submission from Website Feedback Form

Hi [REDACTED]

Thanks again for providing your comments on this project! We'll provide you additional information as it becomes available.

With respect to growth within Quinte West, I encourage you to review the latest Official Plan documents on the website below for the latest information on the Official Plan update:

[Official Plan review - The City of Quinte West](#)

Kind Regards,

Andrew Long, P.Eng, LEED GA | [Jacobs](#) | Project Manager | O: 416.007.3582 | M: 647.701.6622 |
Andrew.Long3@jacobs.com

From: [REDACTED]
Sent: Wednesday, July 27, 2022 9:16 PM
To: Long, Andrew <andrew.long3@jacobs.com>
Cc: [REDACTED]
Subject: Re: [EXTERNAL] [Communications] New submission from Website Feedback Form

Hello Andrew and [REDACTED]

I've reviewed the Trenton plans. I believe these plans were developed by people without considering the real future transportation needs of the City of Trenton. The plan is an ambitious step into the future minus the serious prerequisite of much better east west traffic corridors through the downtown section of Trenton itself. The need for those corridors to support population growth is obvious and has to involve other levels of government. This is too big a project for a small city. Expanding the population of Trenton significantly, while tempting, is asking for big trouble, not just because of traffic flow but because of the well understood serious health hazards that will ensue when vehicles are forced to sit and idle for hours in the downtown main street because they can't cross the bridge in a timely manner. I've personally experienced this very situation in Uxbridge, Ontario and it was ugly to say the least. Trenton will be far, far worse because there is no quick solution or indeed any solution in sight or even contemplated yet. That is a gruesome future to impose on downtown residents and especially the shopkeepers who will be trapped.

Every aspect of the plan was treated as an element to be developed in its own dimension with little attempt to integrate the result into the actual reality of the area's existing features. There is no reference at all to natural habitat or evolving traffic flow. Natural features are called "rural" at best.

You would think this was an alien planet being terra-formed. Trenton and the surrounding area is still one of the most beautiful parts of Ontario but it's been planned without any sense of natural features or aesthetic appreciation of what is here now that would enhance the living experience. This plan was developed using 1940s thinking for the very different needs of the 21st century where most people had better have a sound appreciation of the value of integrating natural habitat with human activities if they want to survive in an increasingly aggressive climate. There's lots of

babbling in the media about sustainability but sustainability is not a goal worth attaining in a world where clean air, soil and water is declining and natural processes are broken or gone altogether..

Restoration of all aspects of natural habitat has to be part of the plan to avoid toxicity of air, soil and water. I don't see any mention of that in Trenton's plan for the future. I don't see any recognition of the fact that we are dealing with living things that are part of what keeps us alive on the land to be developed. Integration and restoration has to be partnered with development going forward.

For that reason, there needs to be planned and respected buffer zones integrated within and surrounding neighbourhoods. Those buffers zones need to be based on a thorough understanding of the requirements of what are known as foundational species. I would bet the entire town that Trenton's planners have no idea what foundation species much less why we need them.

These are the species that make life itself possible on earth. Destroying habitat indiscriminately does not respect this and ultimately harms all of us. Intermittent (vernal) ponds and streams that keep land fertile and productive are nowhere identified on the plans. How can you know not to build over them if you don't even know what they are or how vital they are to life itself?

There are no wildlife corridors anywhere identified. How can a zoning official assess land without having the faintest clue about the native importance of the land being zoned? It can't happen. Zoning officials are typically completely out of touch and insensitive to the land being zoned. That's how we ended up with concrete jungles and urban crime in addition to wasted environmental features and vanished natural attractions.

I don't see any of the buffer zones required by the Clean Water Act either. They should be and must be identified on any planning map. That is Ontario environmental law. That law is in place not only to prevent chemical runoff into waterways but also to provide need accommodation for migrating birds and butterflies. A healthy habitat is necessary for human health as well as natural health. From what I've seen since living here is the the area's vernal ponds and intermittent streams have been capped because I don't see any in local fields. That is habitat destruction and the intentional reduction of soil fertility.

Trenton is a tourist destination that seems bent on obliterating it self. The reasons for people to come here and live and enjoy an intelligently planned community where people can enjoy and experience nature without a fence between them and natural land are being eliminated. How many kids today get to experience walking through a field or climbing a tree as we did as children? Everything is squared off and paved over. Doing that puts everyone out of touch with nature. Doing that sets up an important equation: fewer people to defend against urban encroachment and unnatural living practices and a majority of people who are so out of touch they have never seen a frog or a toad in real life, have no idea what it is to plant a tree or breathe clean air in a wood land. Development and natural habitat need to be married in the planning stage to generate future living environments that don't drive local species to extinction.

As we discussed, the amphibian population is in serious decline in this area and throughout southern Ontario due entirely to destructive planning practices. The nearly complete absence of frogs and toads in my part of Trenton has resulted in a population explosion of ticks. Having the entire town infested with ticks is not a prospect to be contemplated. A tick bite can itch for six months or more and that's not counting what happens to you if you get Lyme disease. So part of what this development plan needs to encompass urgently is to figure out how to re-establish our amphibian populations before summer living here is untenable. That cannot and will not happen without lots of natural green space and restoration of wet lands and recovery of intermittent waterways that include vernal ponds.

There is a lot more to this trunk sewer proposal than meets the eye if you understand what you're looking at and the real stakes. The scope of work for this Environmental Assessment is far too narrow and addresses the elements as though it was a cardboard jigsaw puzzle instead of land that must support life for all species, not just us.

Failing to understand these concepts in the past is what has brought us Global Warming, Climate Change and an environment that is ramping up its retaliation.

When we were in school in Toronto in the 60s, our geography text books told us that southern Ontario received on average 20" of rainfall annually. That number today is 32". Where did that extra foot of rain and snow come from? Right now, Los Angeles, California is experiencing their worst ever drought with no end in sight. Their average precipitation is currently 12" less than normal for their area. If we continue to ignore the natural laws of the planet, things will just get worse. We have time to plan Trenton's growth intelligently and with respect for natural habitat at the same time without sacrificing the economic infrastructure or our human need for healthy communities.

On Jul 27, 2022, at 3:08 PM, Long, Andrew <andrew.long3@jacobs.com> wrote:

Hi [REDACTED]

As discussed, please see links below to the plans we discussed:

- 2021 Water and Wastewater Master Plan: [Plans - The City of Quinte West](#)
 - Click on the "+" next to "Water wastewater masterplan" and then click the link to open the pdf of the Master Plan document.
- 2013 Official Plan: [Official Plan - The City of Quinte West](#)

I will follow up with the City on your comments with respect to growth and transportation impacts, and official plan update schedule.

Thanks,

Andrew Long, P.Eng, LEED GA | [Jacobs](#) | Project Manager | O: 416.007.3582 | M: 647.701.6622 | Andrew.Long3@jacobs.com

From: Long, Andrew

Sent: Wednesday, July 27, 2022 2:30 PM

To: [REDACTED]

Cc: Matt Tracey <mattt@quintewest.ca>; Chang, Jacqueline <Jacqueline.Chang@jacobs.com>; Newton, Dorin/TOR <Dorin.Newton@jacobs.com>

Subject: RE: [EXTERNAL] Fwd: [Communications] New submission from Website Feedback Form

Hello,

Thank you for expressing interest in the West Trunk Sanitary Sewer Environmental Assessment (EA) project. Your comments are valued and will be added to the project file. You have received a copy of the Notice of Commencement as you have been identified as property owner within the study area. We're just at the start of the EA process, and through it we'll evaluate different alternative alignments for the new sewer which will consider environmental, cultural, social, technical, and financial implications of each. The analysis of alternatives and the preferred alignment will be presented at the Public Information Centre that will be scheduled in the next 6-8 weeks. You will have the opportunity to review the alternative alignments and provide additional comments on them if you wish.

Thanks again for providing your comments on this project! We'll include you in our mailing list and will provide you additional information as it becomes available.

Kind Regards,

Andrew Long, P.Eng, LEED GA | Jacobs | Project Manager | O: 416.007.3582 | M: 647.701.6622 | Andrew.Long3@jacobs.com

----- Forwarded message -----

From: **The City of Quinte West** <noreply@quintewest.ca>

Date: Wed, Jul 27, 2022 at 11:06 AM

Subject: [Communications] New submission from Website Feedback Form

To: <communications@quintewest.ca>

• **Help us improve our website with your feedback.**

-
- **Was this webpage helpful?** Not helpful
 - **Select a category below if you have specific feedback** Problem
 - **Feedback** This site is supposed to contain support information for the Public Notice that was sent June 28, 2022 by Matt Tracey, Mgr. of Water and Wastewater Services and Andrew Long, Project Manager at Jacobs, apparently the Consulting Engineers. My notice was a second notice. I don't recall a first. It arrived on July 27, nearly one month later. Being late, I expected progress to have been made with respect to providing relevant information that the public can use to make informed comments. So far I'm not seeing any of that, though I do intend to look further.
 - **Enter your email address below** [REDACTED]
 - **post_referred** <https://quintewest.ca/blog/notice-of-study-commencement-2/>
-

--
Quinte West Communications
Community Services and Strategic Partnerships
communications@quintewest.ca

You received this message because you are subscribed to the Google Groups "Communications" group.
To unsubscribe from this group and stop receiving emails from it, send an email to communications+unsubscribe@quintewest.ca.
To view this discussion on the web visit <https://groups.google.com/a/quintewest.ca/d/msgid/communications/Li6RlrV9eqw8ZC4HBDzQlcxsEwUc0fINrATPUsyqGE%40quintewest.ca>.

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Chang, Jacqueline

From: Long, Andrew
Sent: Wednesday, August 24, 2022 2:49 PM
To: Chang, Jacqueline
Subject: FW: [EXTERNAL] Fwd: Class Environmental Assessment

For filing and logging.

Thanks,

Andrew Long, P.Eng, LEED GA | [Jacobs](#) | Project Manager | O: 416.007.3582 | M: 647.701.6622 | Andrew.Long3@jacobs.com

From: [REDACTED]
Sent: Wednesday, August 17, 2022 11:38 AM
To: Long, Andrew <andrew.long3@jacobs.com>
Subject: Re: [EXTERNAL] Fwd: Class Environmental Assessment

Good morning Andrew,

I'm following up on your offer to look into the process for requesting sanitary services with the city.

Thanks in advance.

[REDACTED]

Sent from my iPhone

On Aug 8, 2022, at 4:20 PM, [REDACTED] wrote:

Andrew,

Thanks so much for the information and providing clarity on the PIC process.

I look forward to attending the PIC.

Sincerely

[REDACTED]

Sent from my iPhone

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Andrew Long, P.Eng, LEED GA | Jacobs | Project Manager | O: 416.007.3582 | M: 647.701.6622 | Andrew.Long3@jacobs.com

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Subject: Re: [EXTERNAL] Fwd: Class Environmental Assessment

Good afternoon Matt,

Trust you had a great vacation. Thank you for your quick reply.

I can’t say that I understand your logic when you said “the study area shown on the Notice of Commencement was determined based on the potential alignments of the new West TSS and not based on lands that can be serviced.”, especially when you went on to say that the placement and depth will affect the lands that it could service.

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Kind Regards,

Andrew Long, P.Eng, LEED GA | [Jacobs](#) | Project Manager | O:
416.007.3582 | M: 647.701.6622 | Andrew.Long3@jacobs.com

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Date: Fri, Jul 29, 2022 at 10:32 AM
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To: <mattt@quintewest.ca>

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Chang, Jacqueline

From: Long, Andrew
Sent: Thursday, August 25, 2022 10:51 AM
To: Chang, Jacqueline
Subject: FW: [EXTERNAL] Fwd: Class Environmental Assessment

For logging

Andrew Long, P.Eng, LEED GA | [Jacobs](#) | Project Manager | O: 416.007.3582 | M: 647.701.6622 | Andrew.Long3@jacobs.com

From: Long, Andrew
Sent: Wednesday, August 24, 2022 2:49 PM
To: [REDACTED]
Cc: Matt Tracey <mattt@quintewest.ca>
Subject: RE: [EXTERNAL] Fwd: Class Environmental Assessment

Hi [REDACTED]

I've followed up with the City regarding your inquiry, and they indicated that there is no plan at this time for expansion or infill in the area south of Highway 33 that would require sanitary servicing. The City indicated that if the residents are interested in obtaining sanitary servicing, they could complete a petition to request it and send to Public Works department. Please note however that the residents that connect would be responsible for the cost of any new infrastructure required to service the lands. Depending on the elevations of the service area that may require a new pump station.

Please let me know if you have any further questions about the West TSS Environmental Assessment. You will also be notified when the Public Information Centre date has been confirmed.

Kind Regards,

Andrew Long, P.Eng, LEED GA | [Jacobs](#) | Project Manager | O: 416.007.3582 | M: 647.701.6622 | Andrew.Long3@jacobs.com

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Subject: Re: [EXTERNAL] Fwd: Class Environmental Assessment

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I can't say that I understand your logic when you said "the study area shown on the Notice of Commencement was determined based on the potential alignments of the new West TSS and not based on lands that can be serviced.", especially when you went on to say that the placement and depth will affect the lands that it could service.

Are you able to share with me the potential alignments for the West TSS that you referenced along with the applicable areas that they will service? This information is critical for residents to review in order to provide relevant comments and feedback.

Can you also provide me with a copy or link to the 2021 Water and Wastewater Master Plan?

Is the area I referenced that is south of Highway 33 and currently not included in the Class Environment Assessment Study, identified in the Master Plan for wastewater services? If not, how do residents in this area go about requesting that this area be considered for sanitary services?

Thanks in advance for your assistance and information and for the opportunity to provide feedback.

[REDACTED]

Sent from my iPhone

On Aug 8, 2022, at 9:54 AM, Long, Andrew
<andrew.long3@jacobs.com> wrote:

Hi [REDACTED]

Thank you for expressing interest in the West Trunk Sanitary Sewer (TSS) Environmental Assessment (EA) project. Your comments are valued and will be added to the project file.

The primary purpose of the West TSS is to service the growth areas identified as part of the 2021 Water and Wastewater Master Plan around the intersection of Highway 2 and 2nd Dug Hill Rd. The study area shown in the Notice of Commencement was determined based on the potential alignments of the new West TSS and not based on lands that can be serviced by it. However, it's ultimate placement as well as depth will affect the lands that it could service. The alternative alignments will be examined through the EA considering technical, environmental, social/cultural, and financial factors, and the preferred alternative presented at the Public Information Centre to be held in the next 8 weeks.

Thanks again for providing your comments on this project! We'll include you in our mailing list and will provide you additional information as it

becomes available. In the meantime, please let us know if you have any additional questions or comments.

Kind Regards,

Andrew Long, P.Eng, LEED GA | Jacobs | Project Manager | O:
416.007.3582 | M: 647.701.6622 | Andrew.Long3@jacobs.com

----- Forwarded message -----

From: [REDACTED]
Date: Fri, Jul 29, 2022 at 10:32 AM
Subject: Class Environmental Assessment
To: <mattt@quintewest.ca>

Hi Matt,

In the notice of commencement it states that the study is to identify/develop and implement a solution to address future capacity needs and existing sanitary sewer issues in the West end of Trenton, yet the area south of Carrying Place Road is excluded.

Can you please explain to me why the area to the south of Carrying Place Road is not included in the environmental assessment?

Thanks

[REDACTED]

Sent from my iPhone

NOTICE - This communication may contain confidential and privileged information that is for the sole use of the intended recipient. Any viewing, copying or distribution of, or reliance on this message by unintended recipients is strictly prohibited. If you have received this message in error, please notify us immediately by replying to the message and deleting it from your computer.

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Chang, Jacqueline

From: Long, Andrew
Sent: Thursday, September 22, 2022 3:24 PM
To: Chang, Jacqueline
Subject: FW: [EXTERNAL] Re: STAIKOS HOMES (2014) LTD - Appledene South Subdivision

For filing. I don't have the original because I wasn't copied on it.

Andrew Long, P.Eng, LEED GA | [Jacobs](#) | Project Manager | O: 416.007.3582 | M: 647.701.6622 |
Andrew.Long3@jacobs.com

From: Matt Tracey <mattt@quintewest.ca>
Sent: Tuesday, September 13, 2022 9:24 AM
To: AH Vandermeer <meer.ahvandermeer@gmail.com>
Cc: Long, Andrew <andrew.long3@jacobs.com>
Subject: [EXTERNAL] Re: STAIKOS HOMES (2014) LTD - Appledene South Subdivision

Good morning Arnold, we are working our way through the EA process currently. We are hopeful to have the preferred alternative identified by early October. We have tentatively scheduled a PIC meeting for the week of October 11th. We will circulate you with the details as we get closer. Thanks

Matt Tracey

Manager Water and Wastewater Services
Public Works and Environmental Services
City of Quinte West

[613.392.2841](tel:613.392.2841) x4482
mattt@quintewest.ca
www.quintewest.ca

On Thu, Sep 8, 2022 at 4:48 PM AH Vandermeer <meer.ahvandermeer@gmail.com> wrote:

Good afternoon Matt,

Would you have an update on how the sanitary sewer servicing options for the west end of Trenton has progressed?

We would like to complete a servicing brief for a proposed Draft Plan of Subdivision for property.

Thanks

van**MEER** limited

Arnold H. Vandermeer, P.Eng.,

Pres.

83 North Park Street

BELLEVILLE, Ontario K8P 2Y6

Tel (613) 969-0171

Chang, Jacqueline

From: Long, Andrew
Sent: Tuesday, September 20, 2022 9:51 AM
To: Chang, Jacqueline
Subject: FW: Class EA study - trunk sanitary sewer

Andrew Long, P.Eng, LEED GA | [Jacobs](#) | Project Manager | O: 416.007.3582 | M: 647.701.6622 | Andrew.Long3@jacobs.com

From: [REDACTED]
Sent: Sunday, September 18, 2022 7:49 PM
To: mattt@quintewest.ca; Long, Andrew <andrew.long3@jacobs.com>
Subject: [EXTERNAL] Class EA study - trunk sanitary sewer

Hi Andrew and Matt,

I received a notice in the mail about this project in my area. I am interested in receiving information about this study and how it will impact the residents in the area.

Thanks,
[REDACTED]

Chang, Jacqueline

From: Long, Andrew
Sent: Monday, September 19, 2022 2:17 PM
To: AudreyP@curvelake.ca; HeidiW@curevlake.ca
Cc: Chang, Jacqueline; Matt Tracey
Subject: RE: Quinte West - West End Trenton Trunk Sanitary Sewer - Environmental Assessment - Notice of Commencement

Hello Audrey and Heidi,

I didn't receive any response on the notice of study commencement below and wanted to reach out again to make sure you received it.

We're scheduling a Public Information Centre (PIC) to review the alternatives and preliminary preferred alternative with the public. I will be sending you an official notice of the PIC in the next couple of days.

I believe Curve Lake has an administration fee to review projects and wanted to confirm the amount so we can get that processed before we send you any documents for review.

Please let me know if you have any questions or comments.

Kind Regards,

Andrew Long, P.Eng, LEED GA | Jacobs | Project Manager | O: 416.007.3582 | M: 647.701.6622 |
Andrew.Long3@jacobs.com

From: Long, Andrew/TOR
Sent: Thursday, June 30, 2022 12:18 PM
To: Long, Andrew/TOR <andrew.long3@jacobs.com>
Subject: Quinte West - West End Trenton Trunk Sanitary Sewer - Environmental Assessment - Notice of Commencement

Good afternoon,

The City of Quinte West is undertaking a Schedule 'B' Municipal Class Environmental Assessment (EA) for the proposed West End Trenton Trunk Sanitary Sewer. For your information, please see attached the Notice of Commencement for this Class EA with a brief description of the project. For further information please see the City's project website here: <https://quintewest.ca/blog/notice-of-study-commencement-2>

As part of the study's consultation program, you are currently included in the contact list. If you wish to be removed or would like to suggest an alternative representative, please contact one of the Jacobs or City representatives listed below. Should we not hear from you, you will continue to be notified of all future consultation opportunities throughout the rest of the EA study.

Should you have any questions, please do not hesitate to contact us.

Thank you,

Andrew Long, P.Eng, LEED GA | Jacobs | Project Manager | O: 416.007.3582 | M: 647.701.6622 |
Andrew.Long3@jacobs.com

On behalf of

Matt Tracey

Manager Water & Wastewater Services

Public Works & Environment Services

City of Quinte West, 7 Creswell Dr, PO Box 490

Trenton, ON, K8V 5R6

T: 613-392-2841 x4482 | F: 613-392-7151 T: 437-780-2441

Email: mattt@quintewest.ca



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Public Notice

City of Quinte West

Class Environmental Assessment Study Notice of Commencement Trunk Sanitary Sewer – West End Trenton



Background

The City of Quinte West is undertaking a Municipal Class Environmental Assessment (EA) Study to identify, develop and implement a solution to address future capacity needs and existing sanitary sewer issues in the West end of Trenton. The study area for this Class EA is shown in the map below. The West End Trunk Sanitary Sewer services a large area that is projected to experience substantial growth. Therefore, this study is to ensure reliable sanitary service is provided to existing areas and future growth areas.

Process

This project is being planned in accordance with the requirements for a Schedule B Municipal Class EA. The Class EA process includes consultation with the public and agencies, an evaluation of viable alternative solutions, an assessment of the impacts of the alternative solutions, identification of measures to mitigate any adverse impacts, and the selection of a preferred solution.

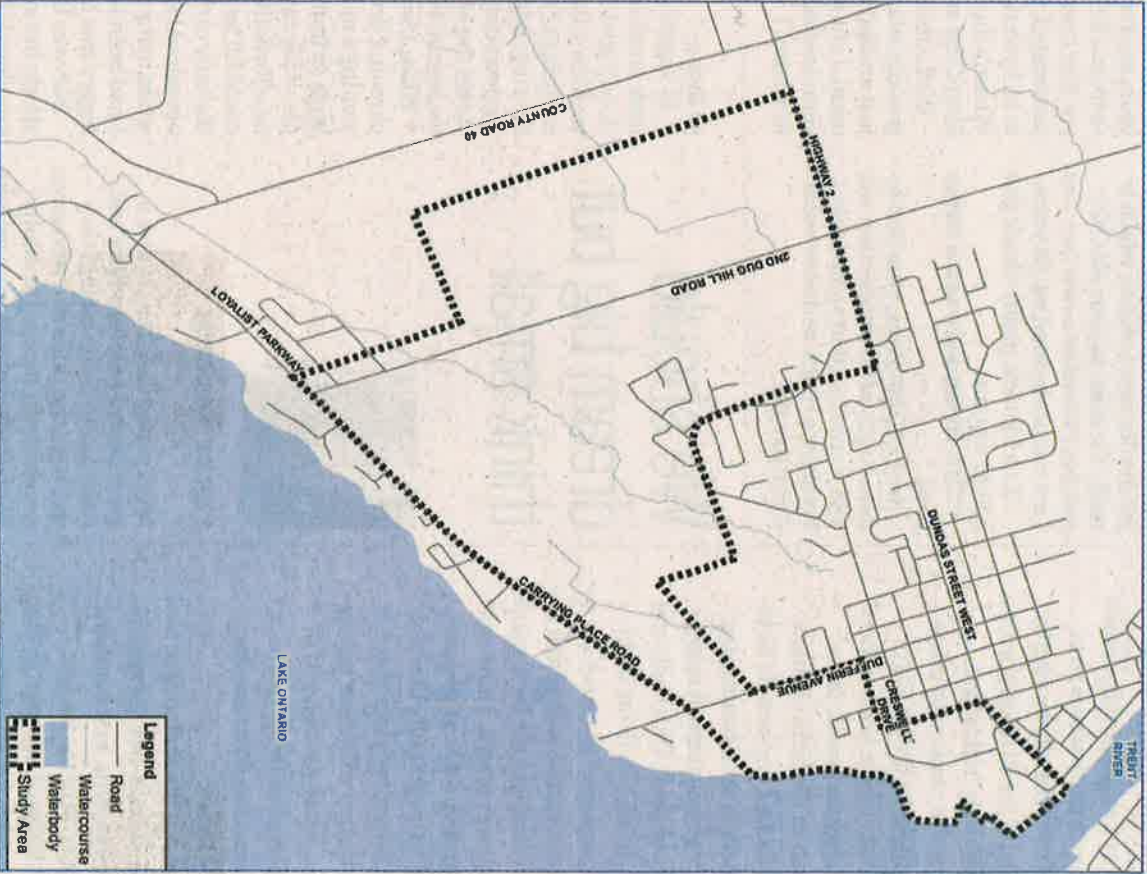
Your Input is Important

Public input into the planning and design of this project is encouraged at any time. One Public Information Centre (PIC) will be held to present the findings of the EA and to provide opportunity to give feedback to the project team. The PIC is planned for summer 2022. Once completed, the results of the EA Study will be published in a Project File and placed on public record for review. **If you have any comments or questions regarding this project, or would like to receive further information, please go to quintewest.ca/eastudy or send an email to the following project contacts:**

Matt Tracey Manager Water & Wastewater Services Public Works & Environment Services City of Quinte West, 7 Creswell Dr, PO Box 490 Trenton, ON, K8V 5R6 T: 613-392-2841 x4482 F: 613-392-7151 Email: mattt@quintewest.ca	Andrew Long, P.Eng. Project Manager Jacobs 245 Consumers Rd, Suite 400 Toronto, ON, M2J 1R3 T: 437-780-2441 Email: andrew.long3@jacobs.com
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This notice was first issued on June 28, 2022.

Under the Freedom of Information and Protection of Privacy Act and the Environmental Assessment Act, unless otherwise stated in the submission, any personal information such as name, address, telephone number and property location included in a submission will become part of the public record files for this project and will be released, if requested, to any person.



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Public Notice

City of Quinte West



Class Environmental Assessment Study Notice of Commencement Trunk Sanitary Sewer – West End Trenton

Background

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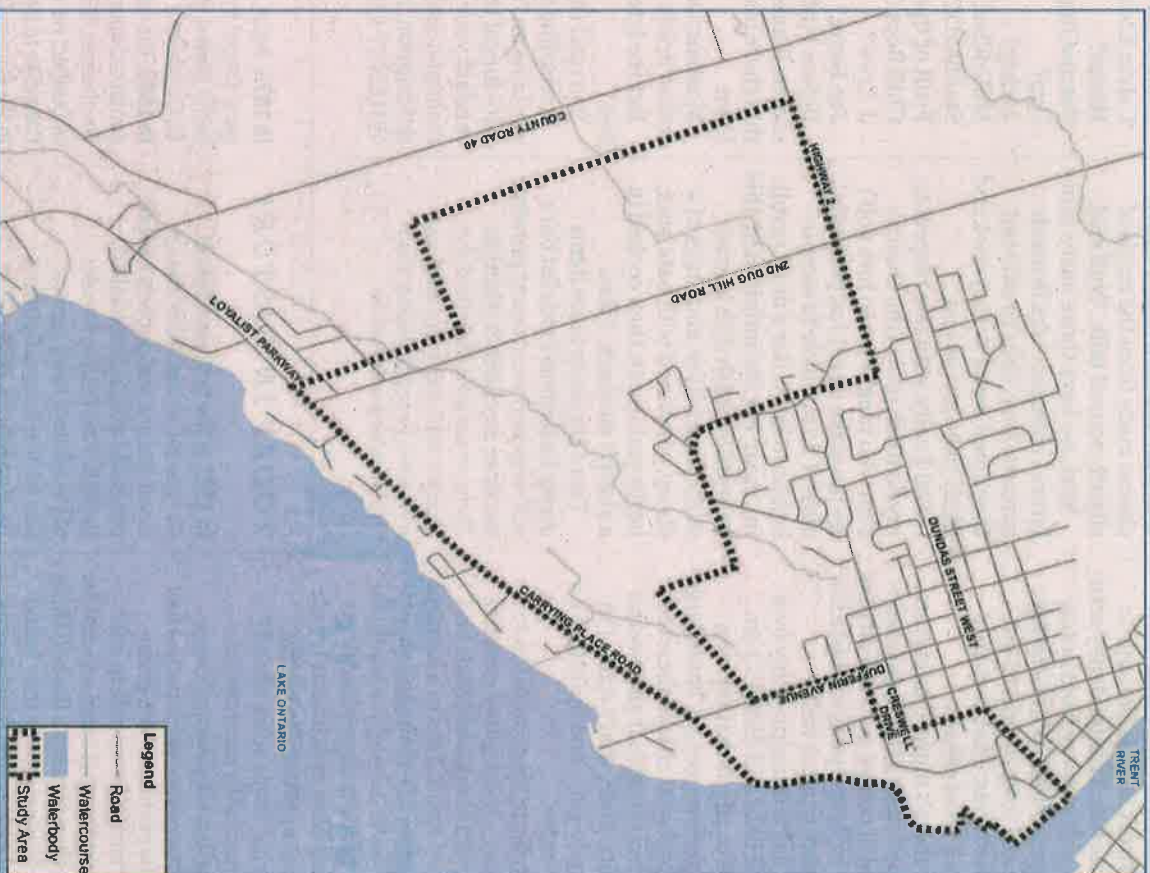
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Public Notice

City of Quinte West

Class Environmental Assessment Study Notice of Commencement Trunk Sanitary Sewer – West End Trenton

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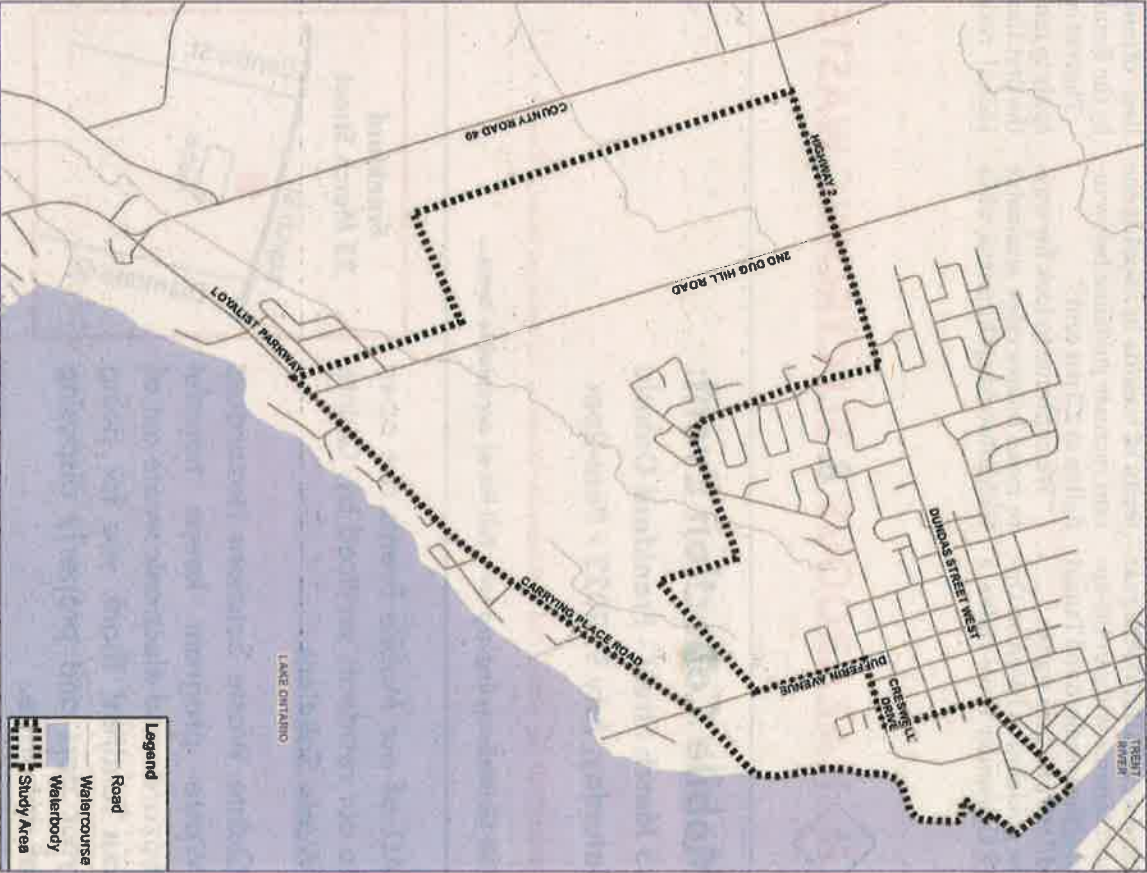
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Public Notice

City of Quinte West



Class Environmental Assessment Study Notice of Commencement Trunk Sanitary Sewer – West End Trenton

Background

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Process

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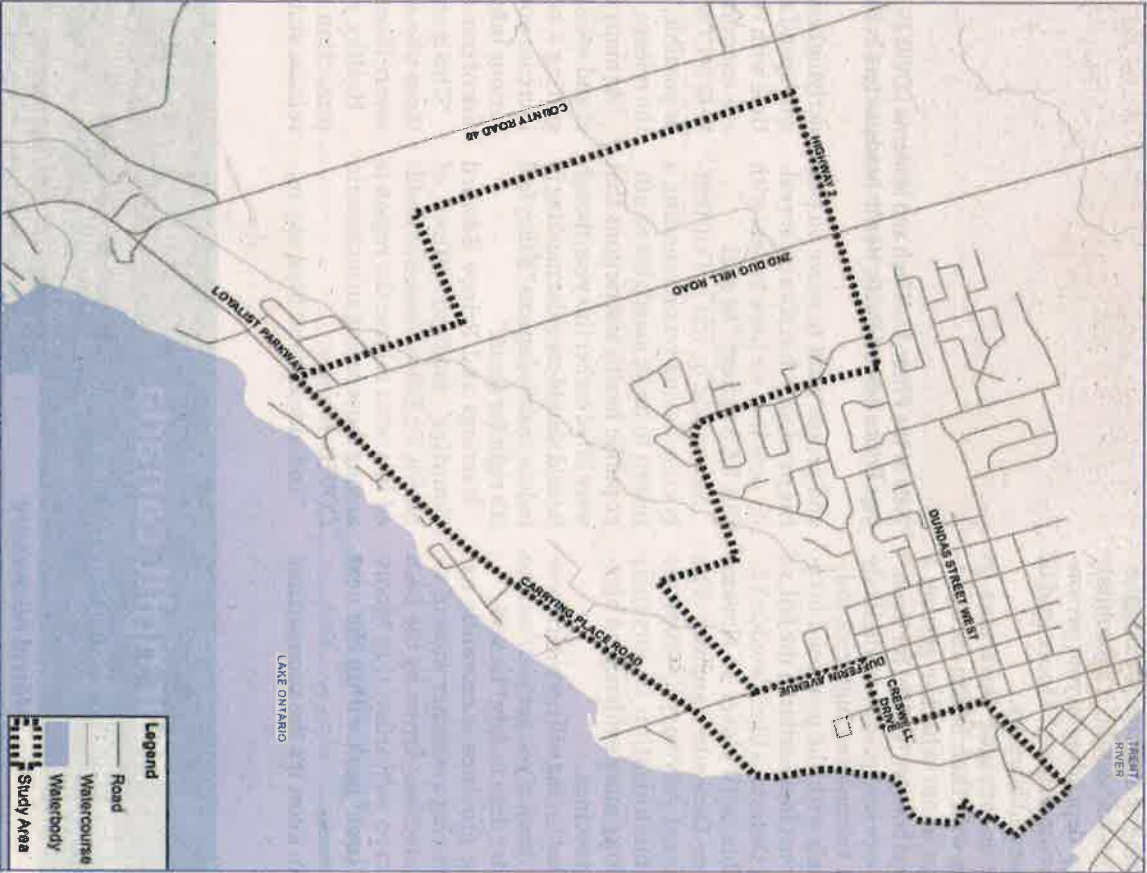
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INFO@QUINTEWEST.CA • ONE VON MILES BLVD TRENTON ON K8V 5R6



Class Environmental Assessment Study

Notice of Public Information Centre

Trunk Sanitary Sewer – West End Trenton

Background

The City of Quinte West is undertaking a Municipal Class Environmental Assessment (EA) Study to identify, develop and implement a solution to address future capacity needs and existing sanitary sewer issues in the West End of Trenton. The study area for this Class EA is shown in the map below.

The West End Trunk Sanitary Sewer services a large area that is projected to experience substantial growth. Therefore, this study is to ensure reliable sanitary service is provided to existing areas and future growth areas.

Process

This project is being planned in accordance with the requirements for a Schedule B Municipal Class EA. The Class EA process includes consultation with the public and agencies, an evaluation of viable alternative solutions, an assessment of the impacts of the alternative solutions, identification of measures to mitigate any adverse impacts, and the selection of a preferred solution.

Your Input is Important

You are invited to a Public Information Centre (PIC) which is being held to present the findings of the EA and to provide opportunity to give feedback to the project team on the preliminary preferred alternative. The PIC is scheduled for **October 11, 2022, from 6:00PM to 8:00PM** at the **City Hall Council Chambers, 7 Creswell Dr, Trenton**. Display boards will be made available to the public at the PIC and online at

<https://quintewest.ca/blog/notice-of-public-information-centre>. Paper copies of the display boards will be made available upon request. Following the PIC, the project team will review comments and finalize the preferred solution. In fall 2022, the Project File will be placed on public record for 30-day review.

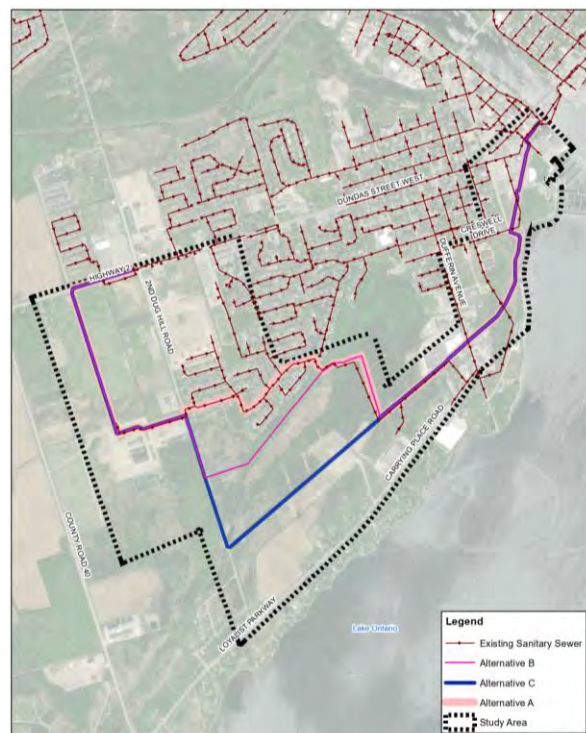
If you have any comments or questions regarding this project, or would like to receive further information, please send an email to one of the following project contacts:

Matt Tracey

Manager Water & Wastewater Services
Public Works & Environment Services
City of Quinte West, 7 Creswell Dr, PO Box 490
Trenton, ON, K8V 5R6
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Email: mattt@quintewest.ca

Andrew Long, P.Eng.

Project Manager
Jacobs
245 Consumers Rd, Suite 400
Toronto, ON, M2J 1R3
T: 437-780-2441
Email: andrew.long3@jacobs.com



This notice was first issued on September 28, 2022.

Bcc: fielding.mw@gmail.com; gullyfourmyle@gmail.com; bourgog@hotmail.com; bradlittle444@gmail.com; mkapitan@live.com; meer.ahvandermeer@gmail.com; ktfung49@hotmail.com; craig@simpligomortgages.com; karla.barboza@ontario.ca; laura.e.hatcher@ontario.ca; peter.makula@ontario.ca; michael.elms@ontario.ca; SAROntario@Ontario.ca; jon.orpana@ontario.ca; eanotification.eregion@ontario.ca; catherine.warren@ontario.ca; colin.higgins@ontario.ca; lynette.lamber@quintewest.ca; rochelle.box@quintewest.ca; jennifer.davey@opp.ca; abisola.akinwumi@opp.ca; mgunning@quinteconservation.ca; janet.royes@lrc.on.ca; dmowat@alderville.ca; council@chimnissing.ca; donna.bigcanoe@georginaisland.com; denisp@ramafirstnation.ca; facilities@ramafirstnation.ca; audrey@curvelake.ca; chiefcarr@hiawathafn.ca; klarocca@scugogfirstnation.com; rdonm@mbq-tmt.org; inquiries@williamstreatiesfirstnations.ca; Marie-Sophie.Gendron@wendake.ca; SecondaryLandUse@HydroOne.com; laverne.hanely@enbridge.com; ann.newman@enbridge.com; MOC (Bell) <bell.moc@telecon.ca>; edgar.henriquez@rci.rogers.com

From: Chang, Jacqueline
Sent: Wednesday, September 28, 2022 9:51 AM
Cc: Long, Andrew; mattt@quintewest.ca
Subject: Quinte West - West End Trenton Sanitary Sewer - Environmental Assessment - Notice of Public Information Centre
Attachments: QW-WestTSS-NOP-FINAL-26Sep22.pdf

Hello,

The City of Quinte West is undertaking a Schedule 'B' Municipal Class Environmental Assessment (EA) for the proposed West End Trenton Trunk Sanitary Sewer. Please be advised that a Public Information Centre (PIC) is being held on **October 11, 2022, from 6:00 PM to 8:00 PM** at the **City Hall Council Chambers, 7 Creswell Dr, Trenton** to provide details about the alternative sewer alignments and preliminary preferred alternative. To obtain more information, please see attached the Notice of PIC or the City's project website here: <https://quintewest.ca/blog/notice-of-study-commencement-2>

As part of the study's consultation program, you are currently included in the contact list. If you wish to be removed or would like to suggest an alternative representative, please contact one of the Jacobs or City representatives listed below. Should we not hear from you, you will continue to be notified of all future consultation opportunities throughout the rest of the EA study.

Should you have any questions, please do not hesitate to contact us.

Thank you,

Jacqueline Chang | Jacobs

On behalf of

Matt Tracey

Manager Water & Wastewater Services

Public Works & Environment Services

City of Quinte West, 7 Creswell Dr, PO Box 490

Trenton, ON, K8V 5R6

T: 613-392-2841 x4482 | F: 613-392-7151 T: 437-780-2441

Email: mattt@quintewest.ca

Andrew Long, P.Eng

Project Manager

Jacobs

245 Consumers Rd, Suite 400

Toronto, ON, M2J 1R3

T: 437-780-2441

Email: andrew.long3@jacobs.com

[EXTERNAL] RE: Quinte West - West End Trenton Trunk Sanitary Sewer - Environmental Assessment - Notice of Public Information Centre

Tue 10/4/2022 9:07 AM

To: Chang, Jacqueline <Jacqueline.Chang@jacobs.com>

Cc: Long, Andrew <andrew.long3@jacobs.com>; 'Matt Tracey' <mattt@quintewest.ca>

Hi

I would like to request a paper copy of the display boards for this meeting. I can pick them up at the meeting.

Thank you

From: Chang, Jacqueline <Jacqueline.Chang@jacobs.com>

Sent: Wednesday, September 28, 2022 4:48 PM

Cc: Long, Andrew <andrew.long3@jacobs.com>; Matt Tracey <mattt@quintewest.ca>

Subject: Quinte West - West End Trenton Trunk Sanitary Sewer - Environmental Assessment - Notice of Public Information Centre

Hello,

The City of Quinte West is undertaking a Schedule 'B' Municipal Class Environmental Assessment (EA) for the proposed West End Trenton Trunk Sanitary Sewer. Please be advised that a Public Information Centre (PIC) is being held **October 11, 2022 from 6:00PM to 8:00PM** at the **City Hall Council Chambers, 7 Creswell Dr, Trenton** to provide details about the alternative sewer alignments and preliminary preferred alternative. To obtain more information, please see attached the Notice of PIC or the City's project website here: <https://quintewest.ca/blog/notice-of-study-commencement-2>

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Thank you,

Jacqueline Chang | Jacobs

On behalf of

Matt Tracey

Manager Water & Wastewater Services

Public Works & Environment Services

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Andrew Long, P.Eng

Project Manager

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RE: [EXTERNAL] RE: Quinte West - West End Trenton Trunk Sanitary Sewer - Environmental Assessment - Notice of Public Information Centre

Long, Andrew <andrew.long3@jacobs.com>

Wed 10/5/2022 8:16 AM

To: [REDACTED]

Cc: 'Matt Tracey' <mattt@quintewest.ca>; Chang, Jacqueline <Jacqueline.Chang@jacobs.com>

Hi [REDACTED]

We will have a paper copy available for you at the Public Information Centre.

Kind Regards,

Andrew Long, P.Eng, LEED GA | [Jacobs](#) | Project Manager | O: 416.007.3582 | M: 647.701.6622 |
[\[Andrew.Long3@jacobs.com\]](mailto:Andrew.Long3@jacobs.com) Andrew.Long3@jacobs.com

From: [REDACTED]

Sent: Tuesday, October 4, 2022 9:07 AM

To: Chang, Jacqueline <Jacqueline.Chang@jacobs.com>

Cc: Long, Andrew <andrew.long3@jacobs.com>; 'Matt Tracey' <mattt@quintewest.ca>

Subject: [EXTERNAL] RE: Quinte West - West End Trenton Trunk Sanitary Sewer - Environmental Assessment - Notice of Public Information Centre

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Thank you
[REDACTED]

From: Chang, Jacqueline <Jacqueline.Chang@jacobs.com>

Sent: Wednesday, September 28, 2022 4:48 PM

Cc: Long, Andrew <andrew.long3@jacobs.com>; Matt Tracey <mattt@quintewest.ca>

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On behalf of

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Manager Water & Wastewater Services

Public Works & Environment Services

City of Quinte West, 7 Creswell Dr, PO Box 490Trenton, ON, K8V 5R6T: 613-392-2841 x4482 | F: 613-392-7151 T: 437-780-2441Email: matt@quintewest.ca**Andrew Long, P.Eng**

Project Manager

Jacobs

245 Consumers Rd, Suite 400Toronto, ON, M2J 1R3T: 437-780-2441Email: andrew.long3@jacobs.com

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Chang, Jacqueline

From: Long, Andrew
Sent: Thursday, October 13, 2022 9:21 AM
To: Chang, Jacqueline
Subject: FW: Quinte West - West End Trenton Trunk Sanitary Sewer - Environmental Assessment - Notice of Public Information Centre
Attachments: QW-WestTSS-NOP-FINAL-26Sep22.pdf

Please save and log.

Thanks,

Andrew Long, P.Eng, LEED GA | [Jacobs](#) | Project Manager | O: 416.007.3582 | M: 647.701.6622 | Andrew.Long3@jacobs.com

From: Short, Sam (MNRF) <Sam.Short@ontario.ca>
Sent: Thursday, October 13, 2022 9:11 AM
To: Long, Andrew <andrew.long3@jacobs.com>
Subject: [EXTERNAL] RE: Quinte West - West End Trenton Trunk Sanitary Sewer - Environmental Assessment - Notice of Public Information Centre

Hello Andrew,

Thank you for circulating the attached notice to our office for review.

I wanted to reach out in light of the Public Information Centre (PIC) date having passed. I checked the weblink in the attached notice, but couldn't find the display boards online that were referenced.

I may just have the wrong weblink to where the project information from the PIC is posted. If this is the case, would you be able to send me the correct web link. I wanted to get a hold of any new information on the project to facilitate MNRF's review. If the materials aren't online, would you be able to forward me any new materials that have come out since the PIC?

Thank you,

Sam Short (he/him)
Regional Planner
Ph: 705-772-9329
Land Use Planning and Strategic Issues Section – Southern Region
Ministry of Natural Resources and Forestry

From: Chang, Jacqueline <Jacqueline.Chang@jacobs.com>
Sent: September-28-22 4:48 PM
Cc: Long, Andrew <andrew.long3@jacobs.com>; Matt Tracey <mattt@quintewest.ca>
Subject: Quinte West - West End Trenton Trunk Sanitary Sewer - Environmental Assessment - Notice of Public Information Centre

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

Hello,

The City of Quinte West is undertaking a Schedule 'B' Municipal Class Environmental Assessment (EA) for the proposed West End Trenton Trunk Sanitary Sewer. Please be advised that a Public Information Centre (PIC) is being held **October 11, 2022** from **6:00PM to 8:00PM** at the **City Hall Council Chambers, 7 Creswell Dr, Trenton** to provide details about the alternative sewer alignments and preliminary preferred alternative. To obtain more information, please see attached the Notice of PIC or the City's project website here: <https://quintewest.ca/blog/notice-of-study-commencement-2>

As part of the study's consultation program, you are currently included in the contact list. If you wish to be removed or would like to suggest an alternative representative, please contact one of the Jacobs or City representatives listed below. Should we not hear from you, you will continue to be notified of all future consultation opportunities throughout the rest of the EA study.

Should you have any questions, please do not hesitate to contact us.

Thank you,

Jacqueline Chang | Jacobs

On behalf of

Matt Tracey

Manager Water & Wastewater Services

Public Works & Environment Services

City of Quinte West, 7 Creswell Dr, PO Box 490

Trenton, ON, K8V 5R6

T: 613-392-2841 x4482 | F: 613-392-7151 T: 437-780-2441

Email: mattt@quintewest.ca

Andrew Long, P.Eng

Project Manager

Jacobs

245 Consumers Rd, Suite 400

Toronto, ON, M2J 1R3

T: 437-780-2441

Email: andrew.long3@jacobs.com

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Chang, Jacqueline

From: Long, Andrew
Sent: Friday, October 14, 2022 9:55 AM
To: Short, Sam (MNRF)
Cc: Chang, Jacqueline; Matt Tracey
Subject: RE: Quinte West - West End Trenton Trunk Sanitary Sewer - Environmental Assessment - Notice of Public Information Centre

Hi Sam,

Yes, the PIC was held on October 11, and the website has been updated to include the PIC display boards and comment sheet.

Please see the links at the bottom of the page at this website:
www.quintewest.ca/blog/notice-of-public-information-centre

Please let me know if you have any other questions.

Kind Regards,

Andrew Long, P.Eng, LEED GA | [Jacobs](#) | Project Manager | O: 416.007.3582 | M: 647.701.6622 |
Andrew.Long3@jacobs.com

From: Short, Sam (MNRF) <Sam.Short@ontario.ca>
Sent: Thursday, October 13, 2022 9:11 AM
To: Long, Andrew <andrew.long3@jacobs.com>
Subject: [EXTERNAL] RE: Quinte West - West End Trenton Trunk Sanitary Sewer - Environmental Assessment - Notice of Public Information Centre

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Thank you,

Sam Short (he/him)
Regional Planner
Ph: 705-772-9329
Land Use Planning and Strategic Issues Section – Southern Region
Ministry of Natural Resources and Forestry

From: Chang, Jacqueline <Jacqueline.Chang@jacobs.com>

Sent: September-28-22 4:48 PM

Cc: Long, Andrew <andrew.long3@jacobs.com>; Matt Tracey <mattt@quintewest.ca>

Subject: Quinte West - West End Trenton Trunk Sanitary Sewer - Environmental Assessment - Notice of Public Information Centre

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Should you have any questions, please do not hesitate to contact us.

Thank you,

Jacqueline Chang | Jacobs

On behalf of

Matt Tracey

Manager Water & Wastewater Services

Public Works & Environment Services

City of Quinte West, 7 Creswell Dr, PO Box 490

Trenton, ON, K8V 5R6

T: 613-392-2841 x4482 | F: 613-392-7151 T: 437-780-2441

Email: mattt@quintewest.ca

Andrew Long, P.Eng

Project Manager

Jacobs

245 Consumers Rd, Suite 400

Toronto, ON, M2J 1R3

T: 437-780-2441

Email: andrew.long3@jacobs.com

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Chang, Jacqueline

From: Long, Andrew
Sent: Tuesday, October 25, 2022 9:25 PM
To: Chang, Jacqueline
Subject: Fwd: [EXTERNAL] Trunk Sanitary Sewer - Trenton West End Environmental Assessment comments
Attachments: Trunk sanitary sewer west end.pdf

Please log and file in the PIC folder.

Thanks,

Andrew Long, P.Eng, LEED GA | Jacobs | Project Manager, Buildings & Infrastructure | 416.499.0090
x73582 | 647.701.6622 | Andrew.Long3@jacobs.com | www.jacobs.com

Please consider the environment before printing this email.

Sent from my mobile

From: [REDACTED]
Sent: Tuesday, October 25, 2022 9:08:01 PM
To: Long, Andrew <andrew.long3@jacobs.com>
Subject: [EXTERNAL] Trunk Sanitary Sewer - Trenton West End Environmental Assessment comments

Hello,

I took a comment form home from the information session for the sewer project in the west end of Trenton a couple of weeks ago so I could carefully write out or type my comments. Hopefully this isn't coming in too late, but attached is a pdf with some comments.

Thanks again,



Trunk Sanitary Sewer – West End Trenton Environmental Assessment

Jacobs

Comment Sheet

The City of Quinte West is interested in receiving the community's comments, questions, and concerns regarding the Trunk Sanitary Sewer – West End Trenton Environmental Assessment project. Please take a few minutes to fill out this brief comment sheet. All comments will be carefully considered while completing the project.

Comments:

Based on the proposed options presented, I would favour "Alternative C". I believe it would be best to minimize disturbance in Hanna Park, and that alternative checks all the boxes for lowest impact. The Trenton escarpment features and Hanna Park contain species at risk such as butternut and 2 species of threatened songbirds that nest in that area. Since alternative C has a rail bed to follow it should also minimize impacts on the wetlands at 2nd Doughill Road. That area is also fairly disturbed already. Species to consider impacts on in the wetlands include Blanding's turtle and Painted turtle.

Name, Address, and Contact Details (optional):

Thank you for taking the time to provide your comments. Comment sheets may be returned to any of the presenters, or can be mailed, or emailed to the following:

Andrew Long, P.Eng.

Project Manager
Jacobs
245 Consumers Rd, Suite 400
Toronto, ON, M2J 1R3
Tel: 437-780-2441
andrew.long3@jacobs.com

Matt Tracey

Manager Water & Wastewater
Services, Public Works &
Environmental Services
City of Quinte West,
7 Creswell Dr, PO Box 490
Trenton, ON, K8V 5R6
Tel: 613-392-2841 ext. 4482
mattt@quintewest.com

With the exception of personal information, all comments will become part of the public record of the study. The study is being conducted in accordance with the requirements of the Municipal Class Environmental Assessment, which is a planning process approved under Ontario's Environmental Assessment Act.

Chang, Jacqueline

From: Long, Andrew
Sent: Tuesday, October 25, 2022 7:05 PM
To: Chang, Jacqueline
Subject: Fwd: [EXTERNAL] Fwd: Hydro One Response: 20221025-NoticeOfPIC1-Trunk Sanitary Sewer West End Trenton
Attachments: 20221025-NoticeOfPIC1-Trunk Sanitary Sewer West End Trenton.pdf

For logging and filing.

Thanks,

Andrew Long, P.Eng, LEED GA | Jacobs | Project Manager, Buildings & Infrastructure | 416.499.0090
x73582 | 647.701.6622 | Andrew.Long3@jacobs.com | www.jacobs.com

Please consider the environment before printing this email.

Sent from my mobile

From: Matt Tracey <mathtt@quintewest.ca>
Sent: Tuesday, October 25, 2022 5:26:22 PM
To: Long, Andrew <andrew.long3@jacobs.com>; Tim Colasante <timc@quintewest.ca>; Robert Jackson <robert.jackson@quintewest.ca>
Subject: [EXTERNAL] Fwd: Hydro One Response: 20221025-NoticeOfPIC1-Trunk Sanitary Sewer West End Trenton

FYI, standard response. We should reach out and get any offset requirements from the lines before final placement of the sewerline. Andrew can you initiate this with a more detailed map?

Thanks

Matt Tracey

Manager Water and Wastewater Services
Public Works and Environmental Services
City of Quinte West

[613.392.2841](tel:613.392.2841) x4482
mathtt@quintewest.ca
www.quintewest.ca

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From: **SECONDARY LAND USE Department** <Department.SecondaryLandUse@hydroone.com>
Date: Tue, Oct 25, 2022 at 4:09 PM
Subject: Hydro One Response: 20221025-NoticeOfPIC1-Trunk Sanitary Sewer West End Trenton

To: mattt@quintewest.ca <mattt@quintewest.ca>

Cc: SECONDARY LAND USE Department <Department.SecondaryLandUse@hydroone.com>

Please see the attached for Hydro One's Response.

Hydro One Networks Inc
SecondaryLandUse@HydroOne.com

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Hydro One Networks Inc.

483 Bay Street
8th Floor South Tower
Toronto, Ontario M5G 2P5

HydroOne.com

October 25, 2022

Re: Trunk Sanitary Sewer West End Trenton

Attention:
Matt Tracey
Manager Water & Wastewater Services
Public Works & Environment Services

Thank you for sending us notification regarding (Trunk Sanitary Sewer - West End Trenton). In our assessment, we have confirmed that Hydro One has existing distribution assets within your study area.

At this time, we do not have sufficient information to comment on the potential resulting impacts that your project may have on our infrastructure. As such, we must stay informed as more information becomes available so that we can advise if any of the alternative solutions present actual conflicts with our assets, and if so; what resulting measures and costs could be incurred by the proponent. Note that this response does not constitute approval for your plans and is being sent to you as a courtesy to inform you that we must continue to be consulted on your project.

Hydro One must be consulted during all stages of your project. Please ensure that all future communications about this and future project(s) are sent to us electronically to secondarylanduse@hydroone.com corridor.

Sent on behalf of,

**Secondary Land Use
Asset Optimization
Strategy & Integrated Planning
Hydro One Networks Inc.**

Chang, Jacqueline

From: Long, Andrew
Sent: Wednesday, October 26, 2022 3:53 PM
To: Department.SecondaryLandUse@hydroone.com
Cc: Matt Tracey; Chang, Jacqueline
Subject: RE: [EXTERNAL] Fwd: Hydro One Response: 20221025-NoticeOfPIC1-Trunk Sanitary Sewer West End Trenton

Hello,

Thank you for providing your letter on this project. We're in the process of preparing some drawings for your review but would like to know what requirements Hydro One has for separation distance from the hydro poles/lines where the sewer is running parallel to your existing hydro lines.

Thanks for your assistance.

Kind Regards,

Andrew Long, P.Eng, LEED GA | [Jacobs](#) | Project Manager | O: 416.007.3582 | M: 647.701.6622 |
Andrew.Long3@jacobs.com

From: Matt Tracey <mathtt@quintewest.ca>
Sent: Tuesday, October 25, 2022 5:26 PM
To: Long, Andrew <andrew.long3@jacobs.com>; Tim Colasante <timc@quintewest.ca>; Robert Jackson <robert.jackson@quintewest.ca>
Subject: [EXTERNAL] Fwd: Hydro One Response: 20221025-NoticeOfPIC1-Trunk Sanitary Sewer West End Trenton

FYI, standard response. We should reach out and get any offset requirements from the lines before final placement of the sewerline. Andrew can you initiate this with a more detailed map?

Thanks

Matt Tracey

Manager Water and Wastewater Services
Public Works and Environmental Services
City of Quinte West

[613.392.2841](tel:613.392.2841) x4482
mathtt@quintewest.ca
www.quintewest.ca

----- Forwarded message -----

From: **SECONDARY LAND USE Department** <Department.SecondaryLandUse@hydroone.com>

Date: Tue, Oct 25, 2022 at 4:09 PM

Subject: Hydro One Response: 20221025-NoticeOfPIC1-Trunk Sanitary Sewer West End Trenton

To: mattt@quintewest.ca <mattt@quintewest.ca>

Cc: SECONDARY LAND USE Department <Department.SecondaryLandUse@hydroone.com>

Please see the attached for Hydro One's Response.

Hydro One Networks Inc

SecondaryLandUse@HydroOne.com

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Chang, Jacqueline

From: Long, Andrew
Sent: Wednesday, November 9, 2022 11:07 AM
To: [REDACTED]
Cc: Chang, Jacqueline
Subject: RE: [EXTERNAL] Trunk Sanitary Sewer - Trenton West End Environmental Assessment comments

Hi [REDACTED],

Thank you for providing your feedback on this project, and it is not too late. We're working on finalizing the Project File which will be available for review. We'll send you a notice when it is available.

Kind Regards,

Andrew Long, P.Eng, LEED GA | [Jacobs](#) | Project Manager | O: 416.007.3582 | M: 647.701.6622 |
Andrew.Long3@jacobs.com

From: [REDACTED] >
Sent: Tuesday, October 25, 2022 9:08 PM
To: Long, Andrew <andrew.long3@jacobs.com>
Subject: [EXTERNAL] Trunk Sanitary Sewer - Trenton West End Environmental Assessment comments

Hello,

I took a comment form home from the information session for the sewer project in the west end of Trenton a couple of weeks ago so I could carefully write out or type my comments. Hopefully this isn't coming in too late, but attached is a pdf with some comments.

Thanks again,

Chang, Jacqueline

From: SUN Hongxia <Susan.SUN@HydroOne.com> on behalf of SECONDARY LAND USE Department <Department.SecondaryLandUse@hydroone.com>
Sent: Friday, November 18, 2022 2:07 PM
To: Long, Andrew
Cc: Matt Tracey; Chang, Jacqueline; SECONDARY LAND USE Department
Subject: RE: [EXTERNAL] Fwd: Hydro One Response: 20221025-NoticeOfPIC1-Trunk Sanitary Sewer West End Trenton
Attachments: Trunk Sanitary Sewer.docx

Good Afternoon Andrew,

Please see attached specs for Plant / Structures along the ROW outlining sewer separation.

Table 1B
MINIMUM HORIZONTAL CLEARANCES
Between HONI Distribution Equipment (<50 kV) & Other Plant/Structures

Other Plant/Structures		Separation (mm)					
		Underground			Overhead		
		Primary & Secondary Cables/Ducts	Pad-mounted Equipment (Foundation)		Pole (below grade)	Conductor 0-0.75kV (note 3)	Conductor 0.751-50kV (note 3)
			Access side	Non- access Sides			
Water Plant	Water Line	300	300	300	600	-	-
	Valve Box / Chamber	300	300 ¹	300 ¹	600	-	-
	Hydrant	300	3000	1000	1000	-	-
Sewer Plant	Sewer Line	300	300	300	600	-	-
	Catch Basin	300	300 ¹	300 ¹	600	-	-
	Manhole	300	300 ¹	300 ¹	600	-	-
Gas	Gas Line	300 ⁴	300	300	600	-	-
Traffic / Street Lighting	Pole/Mast/Pillar	600	3000	1000	3000	1000	1000
	Cable or Duct	300	300	300	600	-	-
	Joint Use Pole	600	3000	1000	3000	1000	1000
	U/G Vault / Hand- hole	300	300 ¹	300 ¹	1000	-	-
	Control Pedestal	300	3000	150 ⁵	1000	-	-
Comm.	Pedestal	300	3000	150 ⁵	1000	-	-
	Cable (Direct Buried / Joint- Use Trench)	300 / 0 ²	300	300	600	-	-
	U/G Vault / Hand- hole	300	300 ¹	300 ¹	1000	-	-
Misc.	Tree (Direct Buried / Duct)	1000 / 300	3000	3000	3000	10	1000
	Building/Structure Foundation ⁶	300	3000	1000	5000	-	-

¹ The specified clearance is to the outside of the ground grid of the pad-mounted equipment.

² Only applicable in a joint-use trench when there is 300 mm of vertical separation between the communication and supply cables.

³ Overhead conductors are in full position of horizontal swing as calculated in DL6-109-0500.

⁴ Zero horizontal separation is allowed during cable crossing if there is 300 mm vertical clearance.

⁵ Communication pedestals located within 3 m of pad-mounted supply equipment shall be bonded to the ground grid. See DU-03-214-0500 for details.

⁶ Measured from the nearest extent of the structure including footings and any associated drainage components.

Note: The clearances are measured from the surface of the listed equipment to the closest surface of the other.

Thank,
Susan

From: Long, Andrew <andrew.long3@jacobs.com>
Sent: Wednesday, October 26, 2022 3:53 PM
To: SECONDARY LAND USE Department <Department.SecondaryLandUse@hydroone.com>
Cc: Matt Tracey <mathtt@quintewest.ca>; Chang, Jacqueline <Jacqueline.Chang@jacobs.com>
Subject: RE: [EXTERNAL] Fwd: Hydro One Response: 20221025-NoticeOfPIC1-Trunk Sanitary Sewer West End Trenton

You don't often get email from andrew.long3@jacobs.com. [Learn why this is important](#)

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Hello,

Thank you for providing your letter on this project. We're in the process of preparing some drawings for your review but would like to know what requirements Hydro One has for separation distance from the hydro poles/lines where the sewer is running parallel to your existing hydro lines.

Thanks for your assistance.

Kind Regards,

Andrew Long, P.Eng, LEED GA | [Jacobs](#) | Project Manager | O: 416.007.3582 | M: 647.701.6622 |
Andrew.Long3@jacobs.com

From: Matt Tracey <mathtt@quintewest.ca>
Sent: Tuesday, October 25, 2022 5:26 PM
To: Long, Andrew <andrew.long3@jacobs.com>; Tim Colasante <timc@quintewest.ca>; Robert Jackson <robert.jackson@quintewest.ca>
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Manager Water and Wastewater Services
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City of Quinte West

[613.392.2841](tel:613.392.2841) x4482
mathtt@quintewest.ca
www.quintewest.ca

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Date: Tue, Oct 25, 2022 at 4:09 PM

Subject: Hydro One Response: 20221025-NoticeOfPIC1-Trunk Sanitary Sewer West End Trenton

To: mattt@quintewest.ca <mattt@quintewest.ca>

Cc: SECONDARY LAND USE Department <Department.SecondaryLandUse@hydroone.com>

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Hydro One Networks Inc

SecondaryLandUse@HydroOne.com

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Chang, Jacqueline

From: Newton, Dorin
Sent: Monday, January 30, 2023 4:12 PM
To: Chang, Jacqueline
Subject: FW: Feedback for Trunk Sanitary Sewer - West end Trenton

FYI

Dorin Newton, P.Eng., M.Eng. | [Jacobs](#) | Engineering
O:+01.437.780.2472 | M:+00.519.575.5585 | Dorin.Newton@jacobs.com

From: [REDACTED]
Sent: Wednesday, November 23, 2022 1:25 PM
To: Long, Andrew <andrew.long3@jacobs.com>; mattt@quintewest.ca
Cc: Chang, Jacqueline <Jacqueline.Chang@jacobs.com>; Newton, Dorin <Dorin.Newton@jacobs.com>
Subject: [EXTERNAL] Re: Feedback for Trunk Sanitary Sewer - West end Trenton

Hi Andrew, did the City make a decision on this project? Also do you know when the construction will start?

Thanks,

From: Long, Andrew <andrew.long3@jacobs.com>
Sent: July 27, 2022 10:20 AM
To: [REDACTED]; mattt@quintewest.ca <mattt@quintewest.ca>
Cc: Chang, Jacqueline <Jacqueline.Chang@jacobs.com>; Newton, Dorin/TOR <Dorin.Newton@jacobs.com>
Subject: RE: Feedback for Trunk Sanitary Sewer - West end Trenton

Hi [REDACTED]

Thank you for expressing interest in the West Trunk Sanitary Sewer EA project. Your comments are valued and will be added to the project file. Through the EA process we'll evaluate different alternative alignments for the new sewer which will consider environmental, cultural, social, technical, and financial implications of each. The analysis of alternatives and the preferred alignment will be presented at the Public Information Centre that will be scheduled in the next 6 weeks. You will have the opportunity to review the alternative alignments and provide additional comments on them if you wish.

Please note that the new West Trunk Sanitary Sewer is not primarily intended for servicing properties along 2nd Dug Hill Road, but is to service the areas north and west of 2nd Dug Hill Road where significant growth is expected. Any construction work on the new sewer will be done in such a way as to minimize impacts to residents and to the environment as much as possible.

Thanks again for providing your comments on this project! We'll include you in our mailing list and will provide you additional information as it becomes available.

Kind Regards,

From: [REDACTED] >
Sent: Monday, July 25, 2022 9:39 AM
To: mattt@quintewest.ca; Long, Andrew <andrew.long3@jacobs.com>
Cc: [REDACTED]
Subject: [EXTERNAL] Feedback for Trunk Sanitary Sewer - West end Trenton

Good morning Matt and Andrew. Thanks for speaking with me earlier Matt. As per your suggestion Andrew I am writing to voice my concerns over this sewer expansion project.

I live at [REDACTED] and received a public notice on subject last week. While I fully understand the City is expanding I cringe every time I see a new area of our quiet town fall to bulldozers. I see more and more dead animals on 2nd Dug Hill road simply because the animals are being squeezed out of their natural habitats. I get it, can't stop progress... but, I wish we could do it in a more harmonious way with nature. With this in mind I think we should avoid disturbing the area around the pond below me which remains one of the few wildlife sanctuaries around here.

I bought my house here 10 years ago because it was on a quiet rural road. The City planners at the time told me 2nd Dug Hill Rd would remain a quiet rural road as there were no plans to expand services on it. Things sure changed since then! I still have a natural barrier made of trees and shrubs providing me with privacy from the road but I'm concerned further developments in front of my house will take that away as some of it is on the road allowance. From what I can tell it's been there for ever, the old cattle fence still runs in front of my house. That's a pretty good look and feel for the area when considering our heritage! So my 2 cents on this project, if it's all the same to you, please route it away from my property. I'd have a different attitude towards this project if it included a water main; that I could use because I'm afraid all the construction around here will affect my water table, but none of us on acreages around here need sewer. I just had my well checked professionally and it still provides ample water. I did this so I had a record to prove it in case my water flow changed due to construction projects in the vicinity.

I'd like to remind our city planners that Quinte West remains "A Natural Attraction" (as per our eloquent motto). That is what is attracting so many people here. We should strive to keep that look and feel and even improve it by ensuring we maintain sufficient green areas and trails throughout the region.

I know, I'm just one property owner and you plan for the whole city so I appreciate your consideration and remain available to provide feedback if you have further questions.

Regards,

[REDACTED]
[REDACTED]

Chang, Jacqueline

From: Chang, Jacqueline
Sent: Tuesday, December 20, 2022 11:40 AM
To: Kayla Wright
Cc: JulieK@curvelake.ca; KaitlinH@curvelake.ca; Katie Young-Haddlesey; KeithK@curvelake.ca; Francis M. Chua; Matt Tracey; Newton, Dorin; Sarah Jagelewski; Long, Andrew
Subject: RE: CLFN Response to: Quinte West - West End Trenton Trunk Sanitary Sewer - Environmental Assessment - Notice of Commencement

Hello everyone,

A revised Stage 1 AA Archeological Report prepared by Archaeological Services Inc. has been sent. You should receive a separate email from Jacobs File Transfer with this report shortly.

Happy Holidays,

Jacqueline Chang | Jacobs | Engineering Intern
M: +1 (647)-248-0451 | Jacqueline.Chang@jacobs.com
245 Consumers Road, Suite 400 | Toronto, Ontario, M2J 1R3 | Canada

Jacobs Challenging today.
Reinventing tomorrow.

From: Long, Andrew
Sent: Monday, December 5, 2022 11:20 AM
To: Kayla Wright <kayla@francischua.com>
Cc: JulieK@curvelake.ca; KaitlinH@curvelake.ca; Katie Young-Haddlesey <KatieYH@curvelake.ca>; KeithK@curvelake.ca; Francis M. Chua <francis@francischua.com>; Matt Tracey <mattt@quintewest.ca>; Chang, Jacqueline <Jacqueline.Chang@jacobs.com>; Newton, Dorin <Dorin.Newton@jacobs.com>; Sarah Jagelewski <sjagelewski@asiheritage.ca>
Subject: RE: CLFN Response to: Quinte West - West End Trenton Trunk Sanitary Sewer - Environmental Assessment - Notice of Commencement

Hello all,

I'm following up on the emails below with the Stage 1 archeological assessment and the display boards from the public information centre to see if you all have any comments that you wish to provide on this project. It is my understanding that Matt Tracey from the City also met with some of you a few weeks ago about the City's other ongoing EA, and he provided you an overview of this project as well.

Please let us know if you have any questions or comments on this project, or if you would like to discuss any aspect of it.

Thanks for your assistance!

Kind Regards,

Andrew Long, P.Eng, LEED GA | [Jacobs](#) | Project Manager | O: 416.007.3582 | M: 647.701.6622 | Andrew.Long3@jacobs.com

From: Long, Andrew

Sent: Tuesday, October 25, 2022 3:46 PM

To: Kayla Wright <kayla@francischua.com>

Cc: JulieK@curvelake.ca; KaitlinH@curvelake.ca; Katie Young-Haddlesey <KatieYH@curvelake.ca>; KeithK@curvelake.ca; Francis M. Chua <francis@francischua.com>; Matt Tracey <mattt@quintewest.ca>; Chang, Jacqueline <Jacqueline.Chang@jacobs.com>; Newton, Dorin <Dorin.Newton@jacobs.com>; Sarah Jagelewski <sjagelewski@asiheritage.ca>

Subject: RE: CLFN Response to: Quinte West - West End Trenton Trunk Sanitary Sewer - Environmental Assessment - Notice of Commencement

Hi Kayla,

Thank you for providing preliminary comments on this project on behalf of Curve Lake First Nation (CLFN). Please see attached the Stage 1 Archeological Assessment report for review as requested in the CLFN letter. It is my understanding that the City has sent the funds for the File Fee as outlined in the CLFN letter. Please advise if they have not been received.

We welcome any additional comments CLFN may have on the attached report, or any comments on the display boards presented at the Public Information Centre (which was sent October 17 and can be accessed at the link below). As indicated in the display boards, the preliminary preferred alternative is Sewer Alignment C.

www.quintewest.ca/blog/notice-of-public-information-centre

Kind Regards,

Andrew Long, P.Eng, LEED GA | [Jacobs](#) | Project Manager | O: 416.007.3582 | M: 647.701.6622 | Andrew.Long3@jacobs.com

From: Kayla Wright <kayla@francischua.com>

Sent: Tuesday, October 4, 2022 5:07 PM

To: Long, Andrew <andrew.long3@jacobs.com>

Cc: JulieK@curvelake.ca; KaitlinH@curvelake.ca; Katie Young-Haddlesey <KatieYH@curvelake.ca>; KeithK@curvelake.ca; Francis M. Chua <francis@francischua.com>

Subject: [EXTERNAL] CLFN Response to: Quinte West - West End Trenton Trunk Sanitary Sewer - Environmental Assessment - Notice of Commencement

Good morning Andrew,

On behalf of Curve Lake First Nation, please see attached Level 2 Letter as it pertains to this project.

Many thanks,

Kayla Wright, C.Tech.
Environment & Sustainability,
Indigenous & Community Relations Advisor
Francis Chua Consulting
kayla@francischua.com

From: Audrey Pearson <AudreyP@curvelake.ca>
Sent: September 19, 2022 2:33 PM
To: Julie Kapyrka <JulieK@curvelake.ca>; Kaitlin Hill <KaitlinH@curvelake.ca>
Subject: FW: Quinte West - West End Trenton Trunk Sanitary Sewer - Environmental Assessment - Notice of Commencement

From: Long, Andrew <andrew.long3@jacobs.com>
Sent: September 19, 2022 2:17 PM
To: Audrey Pearson <AudreyP@curvelake.ca>; HeidiW@curvelake.ca
Cc: Chang, Jacqueline <Jacqueline.Chang@jacobs.com>; Matt Tracey <mattt@quintewest.ca>
Subject: RE: Quinte West - West End Trenton Trunk Sanitary Sewer - Environmental Assessment - Notice of Commencement

Hello Audrey and Heidi,

I didn't receive any response on the notice of study commencement below and wanted to reach out again to make sure you received it.

We're scheduling a Public Information Centre (PIC) to review the alternatives and preliminary preferred alternative with the public. I will be sending you an official notice of the PIC in the next couple of days.

I believe Curve Lake has an administration fee to review projects and wanted to confirm the amount so we can get that processed before we send you any documents for review.

Please let me know if you have any questions or comments.

Kind Regards,

Andrew Long, P.Eng, LEED GA | [Jacobs](https://www.jacobs.com) | Project Manager | O: 416.007.3582 | M: 647.701.6622 |
Andrew.Long3@jacobs.com

From: Long, Andrew/TOR
Sent: Thursday, June 30, 2022 12:18 PM
To: Long, Andrew/TOR <andrew.long3@jacobs.com>
Subject: Quinte West - West End Trenton Trunk Sanitary Sewer - Environmental Assessment - Notice of Commencement

Good afternoon,

The City of Quinte West is undertaking a Schedule 'B' Municipal Class Environmental Assessment (EA) for the proposed West End Trenton Trunk Sanitary Sewer. For your information, please see attached the Notice of Commencement for this Class EA with a brief description of the project. For further information please see the City's project website here: <https://quintewest.ca/blog/notice-of-study-commencement-2>

As part of the study's consultation program, you are currently included in the contact list. If you wish to be removed or would like to suggest an alternative representative, please contact one of the Jacobs or City representatives listed below. Should we not hear from you, you will continue to be notified of all future consultation opportunities throughout the rest of the EA study.

Should you have any questions, please do not hesitate to contact us.

Thank you,

Andrew Long, P.Eng, LEED GA | [Jacobs](#) | Project Manager | O: 416.007.3582 | M: 647.701.6622 |
Andrew.Long3@jacobs.com

On behalf of

Matt Tracey
Manager Water & Wastewater Services
Public Works & Environment Services
City of Quinte West, 7 Creswell Dr, PO Box 490
Trenton, ON, K8V 5R6
T: 613-392-2841 x4482 | F: 613-392-7151 T: 437-780-2441
Email: mattt@quintewest.ca

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Chang, Jacqueline

From: Long, Andrew
Sent: Wednesday, December 14, 2022 3:03 PM
To: [REDACTED]
Cc: Chang, Jacqueline; Newton, Dorin; mattt@quintewest.ca
Subject: RE: Feedback for Trunk Sanitary Sewer - West end Trenton
Attachments: ProposedAlternatives.pdf

Hi [REDACTED],

Apologies for the delay in getting back to you. After all the feedback from various stakeholders and evaluation of the alternatives, the Alternative C alignment was selected as the preferred alternative. I've attached a map showing the latest alignments and Alternative C is in light pink. We're working on finalizing the Project File Report and hope to have it available for public review first thing in January. In the Project File Report, the complete multi-criteria analysis of alternatives will be presented which considers the following factors: technical, environmental, social/cultural, and financial.

Given the project schedule, we have started completing some geotechnical investigations to facilitate the design which will occur through the winter and spring. The construction is anticipated to begin mid-late summer 2023.

Please let me know if you have any other questions or comments.

Kind Regards,

Andrew Long, P.Eng, LEED GA | [Jacobs](#) | Project Manager | O: 416.007.3582 | M: 647.701.6622 | Andrew.Long3@jacobs.com

From: [REDACTED]
Sent: Tuesday, December 13, 2022 1:52 PM
To: Long, Andrew <andrew.long3@jacobs.com>; mattt@quintewest.ca
Subject: [EXTERNAL] Re: Feedback for Trunk Sanitary Sewer - West end Trenton

Good afternoon, Andrew and Matt, I sent you an e-mail a few weeks ago but I did not hear back so I am writing again. I'd like to know which option has been chosen for subject and why. There is a big drilling rig in front of my house so I have a feeling this will significantly impact me. I'd also like to know how this will impact me.

If I'm not asking the right people please let me know who that should be.

Regards,

[REDACTED]

From: Long, Andrew <andrew.long3@jacobs.com>
Sent: July 27, 2022 10:20 AM

To: [REDACTED]; mattt@quintewest.ca <mattt@quintewest.ca>
Cc: Chang, Jacqueline <Jacqueline.Chang@jacobs.com>; Newton, Dorin/TOR <Dorin.Newton@jacobs.com>
Subject: RE: Feedback for Trunk Sanitary Sewer - West end Trenton

Hi [REDACTED]

Thank you for expressing interest in the West Trunk Sanitary Sewer EA project. Your comments are valued and will be added to the project file. Through the EA process we'll evaluate different alternative alignments for the new sewer which will consider environmental, cultural, social, technical, and financial implications of each. The analysis of alternatives and the preferred alignment will be presented at the Public Information Centre that will be scheduled in the next 6 weeks. You will have the opportunity to review the alternative alignments and provide additional comments on them if you wish.

Please note that the new West Trunk Sanitary Sewer is not primarily intended for servicing properties along 2nd Dug Hill Road, but is to service the areas north and west of 2nd Dug Hill Road where significant growth is expected. Any construction work on the new sewer will be done in such a way as to minimize impacts to residents and to the environment as much as possible.

Thanks again for providing your comments on this project! We'll include you in our mailing list and will provide you additional information as it becomes available.

Kind Regards,

Andrew Long, P.Eng, LEED GA | [Jacobs](#) | Project Manager | O: 416.007.3582 | M: 647.701.6622 |
[\[Andrew.Long3@jacobs.com\]](mailto:Andrew.Long3@jacobs.com)Andrew.Long3@jacobs.com

From: [REDACTED]
Sent: Monday, July 25, 2022 9:39 AM
To: mattt@quintewest.ca; Long, Andrew <andrew.long3@jacobs.com>
Cc: [REDACTED]
Subject: [EXTERNAL] Feedback for Trunk Sanitary Sewer - West end Trenton

Good morning Matt and Andrew. Thanks for speaking with me earlier Matt. As per your suggestion Andrew I am writing to voice my concerns over this sewer expansion project.

I live at [REDACTED] and received a public notice on subject last week. While I fully understand the City is expanding I cringe every time I see a new area of our quiet town fall to bulldozers. I see more and more dead animals on 2nd Dug Hill road simply because the animals are being squeezed out of their natural habitats. I get it, can't stop progress... but, I wish we could do it in a more harmonious way with nature. With this in mind I think we should avoid disturbing the area around the pond below me which remains one of the few wildlife sanctuaries around here.

I bought my house here 10 years ago because it was on a quiet rural road. The City planners at the time told me 2nd Dug Hill Rd would remain a quiet rural road as there were no plans to expand services on it. Things sure changed since then! I still have a natural barrier made of trees and shrubs providing me with privacy from the road but I'm concerned further developments in front of my house will take that away as some of it is on the road allowance. From what I can tell it's been there for ever, the old cattle fence still runs in front of my house. That's a pretty good look and feel for the area when considering our heritage! So my 2 cents on this project, if it's all the same to you, please route it away from my property. I'd have a different attitude towards this project if it included a water main; that I could use because I'm afraid all the construction around here will

affect my water table, but none of us on acreages around here need sewer. I just had my well checked professionally and it still provides ample water. I did this so I had a record to prove it in case my water flow changed due to construction projects in the vicinity.

I'd like to remind our city planners that Quinte West remains "A Natural Attraction" (as per our eloquent motto). That is what is attracting so many people here. We should strive to keep that look and feel and even improve it by ensuring we maintain sufficient green areas and trails throughout the region.

I know, I'm just one property owner and you plan for the whole city so I appreciate your consideration and remain available to provide feedback if you have further questions.

Regards,

A black rectangular redaction box covering the signature of the sender.

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Chang, Jacqueline

From: [REDACTED]
Sent: Thursday, December 15, 2022 9:55 AM
To: Long, Andrew
Cc: Chang, Jacqueline; Newton, Dorin; mattt@quintewest.ca
Subject: [EXTERNAL] Re: Feedback for Trunk Sanitary Sewer - West end Trenton

Good morning Andrew, thanks for letting me know. Alternative C was the only option I did not like because that will greatly disturb my property ([REDACTED]) as well as the protected marsh area at the bottom of the ridge. I am very surprised environment officials allowed that project to go through the march! But, can't stop progress, right?

My main concern with option C is with all the digging in rock that will have to happen very close to my property. And more specifically my well. Who should I speak with to make sure my property is protected from this project? This could affect my house (cracks) and my well. I have had my well flow tested recently (my well flow has always been good) and my understanding is that the project principal (in this case the city) would be responsible if they disturbed my well. Do you have a recommendation for me on how to protect myself? I'm just trying to protect my space as the city is trying to make space for everyone else...

Regards,

From: Long, Andrew <andrew.long3@jacobs.com>
Sent: December 14, 2022 3:02 PM
To: [REDACTED]
Cc: Chang, Jacqueline <Jacqueline.Chang@jacobs.com>; Newton, Dorin <Dorin.Newton@jacobs.com>; mattt@quintewest.ca <mattt@quintewest.ca>
Subject: RE: Feedback for Trunk Sanitary Sewer - West end Trenton

Hi [REDACTED]

Apologies for the delay in getting back to you. After all the feedback from various stakeholders and evaluation of the alternatives, the Alternative C alignment was selected as the preferred alternative. I've attached a map showing the latest alignments and Alternative C is in light pink. We're working on finalizing the Project File Report and hope to have it available for public review first thing in January. In the Project File Report, the complete multi-criteria analysis of alternatives will be presented which considers the following factors: technical, environmental, social/cultural, and financial.

Given the project schedule, we have started completing some geotechnical investigations to facilitate the design which will occur through the winter and spring. The construction is anticipated to begin mid-late summer 2023.

Please let me know if you have any other questions or comments.

Kind Regards,

Andrew Long, P.Eng, LEED GA | [Jacobs](#) | Project Manager | O: 416.007.3582 | M: 647.701.6622 |
Andrew.Long3@jacobs.com

From: [REDACTED]
Sent: Tuesday, December 13, 2022 1:52 PM
To: Long, Andrew <andrew.long3@jacobs.com>; mattt@quintewest.ca
Subject: [EXTERNAL] Re: Feedback for Trunk Sanitary Sewer - West end Trenton

Good afternoon, Andrew and Matt, I sent you an e-mail a few weeks ago but I did not hear back so I am writing again. I'd like to know which option has been chosen for subject and why. There is a big drilling rig in front of my house so I have a feeling this will significantly impact me. I'd also like to know how this will impact me.

If I'm not asking the right people please let me know who that should be.

Regards,

[REDACTED]

From: Long, Andrew <andrew.long3@jacobs.com>
Sent: July 27, 2022 10:20 AM
To: [REDACTED]; mattt@quintewest.ca <mattt@quintewest.ca>
Cc: Chang, Jacqueline <Jacqueline.Chang@jacobs.com>; Newton, Dorin/TOR <Dorin.Newton@jacobs.com>
Subject: RE: Feedback for Trunk Sanitary Sewer - West end Trenton

Hi [REDACTED]

Thank you for expressing interest in the West Trunk Sanitary Sewer EA project. Your comments are valued and will be added to the project file. Through the EA process we'll evaluate different alternative alignments for the new sewer which will consider environmental, cultural, social, technical, and financial implications of each. The analysis of alternatives and the preferred alignment will be presented at the Public Information Centre that will be scheduled in the next 6 weeks. You will have the opportunity to review the alternative alignments and provide additional comments on them if you wish.

Please note that the new West Trunk Sanitary Sewer is not primarily intended for servicing properties along 2nd Dug Hill Road, but is to service the areas north and west of 2nd Dug Hill Road where significant growth is expected. Any construction work on the new sewer will be done in such a way as to minimize impacts to residents and to the environment as much as possible.

Thanks again for providing your comments on this project! We'll include you in our mailing list and will provide you additional information as it becomes available.

Kind Regards,

Andrew Long, P.Eng, LEED GA | [Jacobs](#) | Project Manager | O: 416.007.3582 | M: 647.701.6622 |
[\[Andrew.Long3@jacobs.com\]](mailto:Andrew.Long3@jacobs.com)Andrew.Long3@jacobs.com

From: [REDACTED]
Sent: Monday, July 25, 2022 9:39 AM
To: mattt@quintewest.ca; Long, Andrew <andrew.long3@jacobs.com>

Cc: [REDACTED]

Subject: [EXTERNAL] Feedback for Trunk Sanitary Sewer - West end Trenton

Good morning Matt and Andrew. Thanks for speaking with me earlier Matt. As per your suggestion Andrew I am writing to voice my concerns over this sewer expansion project.

I live at [REDACTED] and received a public notice on subject last week. While I fully understand the City is expanding I cringe every time I see a new area of our quiet town fall to bulldozers. I see more and more dead animals on 2nd Dug Hill road simply because the animals are being squeezed out of their natural habitats. I get it, can't stop progress... but, I wish we could do it in a more harmonious way with nature. With this in mind I think we should avoid disturbing the area around the pond below me which remains one of the few wildlife sanctuaries around here.

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I'd like to remind our city planners that Quinte West remains "A Natural Attraction" (as per our eloquent motto). That is what is attracting so many people here. We should strive to keep that look and feel and even improve it by ensuring we maintain sufficient green areas and trails throughout the region.

I know, I'm just one property owner and you plan for the whole city so I appreciate your consideration and remain available to provide feedback if you have further questions.

Regards,

[REDACTED]

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Chang, Jacqueline

From: [REDACTED]
Sent: Tuesday, January 10, 2023 12:44 PM
To: Long, Andrew
Cc: Newton, Dorin; Chang, Jacqueline; Matt Tracey; mikew@quintewest.ca
Subject: Re: [EXTERNAL] Trunk Sanitary Sewer Environmental Assessment

Hello Andrew:

My wife and I attended the PIC in October to gather information about the Trunk Sanitary Sewer Assessment. At the time there were 3 possible routes being considered for the sewer line; one passing between our house and our neighbour's. We understood that a decision would be forthcoming in November. Has a decision for the route been reached?

Sincerely,

[REDACTED]

On Aug 8, 2022, at 2:48 PM, Long, Andrew <andrew.long3@jacobs.com> wrote:

Hi [REDACTED]

Apologies for the delay in getting back to your email. Thank you for expressing interest in the West Trunk Sanitary Sewer (TSS) Environmental Assessment (EA) project. Your comments are valued and will be added to the project file.

The latest information for the West TSS EA project is available at this website: [Notice of study commencement - The City of Quinte West](#). We're still in the process of developing and evaluating the alternative alignments for the proposed West TSS per the EA process. The Public Information Centre (PIC) will be held to present this analysis and obtain feedback from residents and stakeholders. The PIC date has not yet been finalized, however is planned for September.

Thanks again for providing your comments on this project! We'll include you in our mailing list and will provide you additional information as it becomes available. In the meantime, please let us know if you have any additional questions or comments.

Kind Regards,

Andrew Long, P.Eng, LEED GA | [Jacobs](#) | Project Manager | O: 416.007.3582 | M: 647.701.6622 | Andrew.Long3@jacobs.com

----- Forwarded message -----

From: [REDACTED]
Date: Fri, Jul 22, 2022 at 12:46 PM
Subject: Fwd: Trunk Sanitary Sewer Environmental Assessment
To: <mattt@quintewest.ca>

> Dear Mr Tracey:

>

> I received a Notice of Commencement for the Trunk Sanitary Sewer Environmental Assessment today in the mail. As the owner of a property bordering on the area I have many concerns about this issue. Last year I tried to obtain more information from the city planners but received very little.

>

> This notice states that there will be a PIC this summer but it is already July and I have not heard of a date for that yet. I have also attempted to access the city website but that has been down for several days. The last time I looked, the maps were woefully out of date anyway.

>

> Please provide me with any information that you have on this subject.

>

> Sincerely,

>

> [REDACTED]
> [REDACTED]
> [REDACTED]
> [REDACTED]
> [REDACTED]

>

>

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Chang, Jacqueline

From: Matt Tracey <mattt@quintewest.ca>
Sent: Tuesday, January 10, 2023 12:48 PM
To: [REDACTED]
Cc: Long, Andrew; Newton, Dorin; Chang, Jacqueline; mikew@quintewest.ca
Subject: Re: [EXTERNAL] Trunk Sanitary Sewer Environmental Assessment

Good afternoon, we are working on finalizing the Environmental Assessment report shortly for publication. The preferred alternative that is proposed is the Southern route that would have the line connect to 2nd Dughill road. We will ensure you are circulated on the publication.

Thanks

Matt Tracey

Manager Water and Wastewater Services
Public Works and Environmental Services
City of Quinte West

[613.392.2841](tel:613.392.2841) x4482
mattt@quintewest.ca
www.quintewest.ca

On Tue, Jan 10, 2023 at 12:44 PM [REDACTED] > wrote:
Hello Andrew:

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Andrew Long, P.Eng, LEED GA | [Jacobs](#) | Project Manager | O: 416.007.3582 | M: 647.701.6622 | Andrew.Long3@jacobs.com

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Chang, Jacqueline

From: [REDACTED]
Sent: Tuesday, January 10, 2023 2:48 PM
To: Matt Tracey
Cc: Long, Andrew; Newton, Dorin; Chang, Jacqueline; mikew@quintewest.ca
Subject: Re: [EXTERNAL] Trunk Sanitary Sewer Environmental Assessment

Thanks for the info Matt.

[REDACTED]

On Jan 10, 2023, at 12:47 PM, Matt Tracey <mattt@quintewest.ca> wrote:

Good afternoon, we are working on finalizing the Environmental Assessment report shortly for publication. The preferred alternative that is proposed is the Southern route that would have the line connect to 2nd Dughill road. We will ensure you are circulated on the publication.

Thanks

Matt Tracey

Manager Water and Wastewater Services
Public Works and Environmental Services
City of Quinte West

[613.392.2841](tel:613.392.2841) x4482
mattt@quintewest.ca
www.quintewest.ca

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Apologies for the delay in getting back to your email. Thank you for expressing interest in the West Trunk Sanitary Sewer (TSS) Environmental Assessment (EA) project. Your comments are valued and will be added to the project file.

The latest information for the West TSS EA project is available at this website: [Notice of study commencement - The City of Quinte West](#). We're still in the process of developing and evaluating the alternative alignments for the proposed West TSS per the EA process. The Public Information Centre (PIC) will be held to present this analysis and obtain feedback from residents and stakeholders. The PIC date has not yet been finalized, however is planned for September.

Thanks again for providing your comments on this project! We'll include you in our mailing list and will provide you additional information as it becomes available. In the meantime, please let us know if you have any additional questions or comments.

Kind Regards,

Andrew Long, P.Eng, LEED GA | [Jacobs](#) | Project Manager | O: 416.007.3582 | M: 647.701.6622 | Andrew.Long3@jacobs.com

----- Forwarded message -----

From: [REDACTED]

Date: Fri, Jul 22, 2022 at 12:46 PM

Subject: Fwd: Trunk Sanitary Sewer Environmental Assessment

To: <mattt@quintewest.ca>

> Dear Mr Tracey:

>

> I received a Notice of Commencement for the Trunk Sanitary Sewer Environmental Assessment today in the mail. As the owner of a property bordering on the area I have many concerns about this issue. Last year I tried to obtain more information from the city planners but received very little.

>

> This notice states that there will be a PIC this summer but it is already July and I have not heard of a date for that yet. I have also attempted to access the city website but that has been down for several days. The last time I looked, the maps were woefully out of date anyway.

>

> Please provide me with any information that you have on this subject.

>

> Sincerely,

>

> [REDACTED]

>
> [REDACTED]
> [REDACTED]
> [REDACTED]
>
>

NOTICE - This communication may contain confidential and privileged information that is for the sole use of the intended recipient. Any viewing, copying or distribution of, or reliance on this message by unintended recipients is strictly prohibited. If you have received this message in error, please notify us immediately by replying to the message and deleting it from your computer.

Chang, Jacqueline

From: Long, Andrew
Sent: Monday, February 6, 2023 9:43 AM
To: Chang, Jacqueline
Subject: FW: [EXTERNAL] Re: Concerns with with Trunk Sanitary Sewer - West end Trenton

For logging and save on sharepoint.

Thanks,

Andrew Long, P.Eng, LEED GA | [Jacobs](#) | Project Manager | O: 416.007.3582 | M: 647.701.6622 |
Andrew.Long3@jacobs.com

PTO January 18 to February 5 inclusive

From: Matt Tracey <mathtt@quintewest.ca>
Sent: Wednesday, January 25, 2023 2:03 PM
To: [REDACTED]
Cc: Long, Andrew <andrew.long3@jacobs.com>
Subject: [EXTERNAL] Re: Concerns with with Trunk Sanitary Sewer - West end Trenton

Good afternoon [REDACTED], good speaking with you this afternoon. We will take your comments into consideration as we proceed with the design for the project. At this time we are not planning to urbanize this section of road in front of your home and we will look at placement of the pipe to minimize our impacts if feasible. In terms of your well we will take note of the location and will ask to have access to monitor the level as we proceed to make sure there is no impact.

With respect to the construction we do not anticipate any issues however we typically make it part of the project to complete pre and post construction inspections on all homes and structures in the area of construction. This is completed by an independent firm that specializes in this. We can discuss this later as we get closer to moving forward.

Thanks for you for sharing your concerned,

Matt

Matt Tracey

Manager Water and Wastewater Services
Public Works and Environmental Services
City of Quinte West

[613.392.2841](tel:613.392.2841) x4482

mattt@quintewest.ca

www.quintewest.ca

On Wed, Jan 25, 2023 at 1:33 PM [REDACTED] wrote:

Good afternoon Matt, thanks for taking the time to speak with me today. As discussed on the phone I am voicing my concerns about the new sewer line coming up 2nd Dug Hill Rd next summer. I live at [REDACTED] the new line will go right in front of my property. That concerns me in three ways:

1. All the digging in the rock required to install the line could cause structural damage to my house because of the proximity of the project.
2. Digging in that rock close to my well could affect my well flow. I have never had problems with my well and I had the flow checked last year to protect myself against all the changes made around my property.
3. I also hope you can advance this project without affecting the look and feel of the area too much. I am quite fond of the trees growing on the side of the road which provides me with privacy from the ever increasing traffic flow. I'd really appreciate it if you could minimise tree cutting along the front of my property line.

Looking forward to your response.

Regards,

[REDACTED]
[REDACTED]

West End Trenton Trunk Sanitary Sewer Schedule B Class Environmental Assessment

Public Information Centre

October 11, 2022



Jacobs

Challenging today.
Reinventing tomorrow.

1

Welcome!

The Purpose of this Public Engagement is to:

Project
Overview

Receive
Feedback

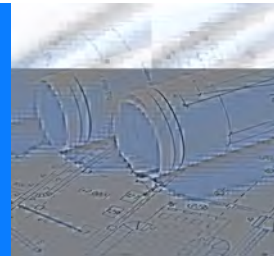
Next Steps



Provide a project overview
and explain why the project is
being undertaken.



Provide details and seek
input on the alternative
solutions developed



Provide information on the
next stages of the project.

Jacobs

2

Project Overview: Problem and Opportunity

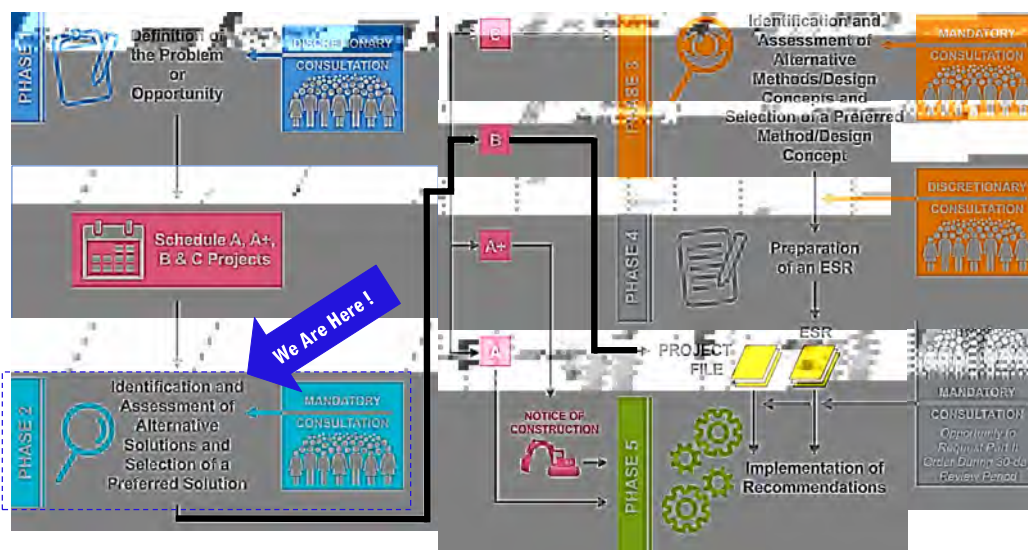
- A review of the capacity of the existing West Trunk Sanitary Sewer (TSS) was completed as part of the 2021 Water and Wastewater Master Plan (WWMP). The 2021 WWMP included significant growth in the West End of Trenton that the City is planning for over the next 20 years. The existing sewer's available capacity is insufficient to accommodate the known developments and ultimate growth envisioned by the City of Quinte West
- The purpose of this study is to therefore develop and evaluate alternative solutions and recommend a preferred solution to provide additional trunk sewer capacity required to service future growth needs in the West End of Trenton.



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3

Class Environmental Assessment Process

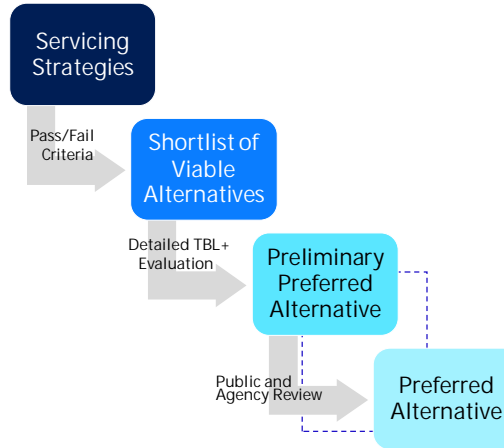


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4

Alternative Development Process: How do we arrive at a solution?

- Step 1: Identify and screen servicing strategies to address the Problem Statement, using Pass/Fail criteria
- Step 2: Evaluate viability and feasibility of shortlist of alternatives using detailed triple bottom line (TBL+) evaluation
- Step 3: Select the Preliminary Preferred Alternative based on TBL+ evaluation
- Step 4: Consult and receive input to select the preferred alternative.



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Alternative A – Existing Sewer Alignment



- Upper Section: Same for all Alternatives
 - From Dundas St W (Highway 2) and 2nd Dug Hill Rd (County Rd 40) to Hillside Meadow Dr and 2nd Dug Hill Rd
 - Along Highway 2 and through existing and future developments
- Middle Section:
 - From Hillside Meadow Dr and 2nd Dug Hill Rd to existing sewer within future City industrial park (IP) lands
 - Generally follows the alignment of the existing West TSS
- Lower Section: Same for all Alternatives
 - From existing sewer within future City IP lands to the existing river crossing sewers connecting to the Dundas St Sewage Pumping Station.
 - Along abandoned rail line and City roads

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Alternative B – Escarpment Alignment



- Upper Section: Same for all Alternatives
 - From Dundas St W (Highway 2) and 2nd Dug Hill Rd (County Rd 40) to Hillside Meadow Dr and 2nd Dug Hill Rd
 - Along Highway 2 and through existing and future developments
- Middle Section:
 - From Hillside Meadow Dr and 2nd Dug Hill Rd to existing sewer within future City industrial park (IP) lands
 - Along 2nd Dug Hill Rd, then east along the escarpment and along existing West TSS
- Lower Section: Same for all Alternatives
 - From existing sewer within future City IP lands to the existing river crossing sewers connecting to the Dundas St Sewage Pumping Station.
 - Along abandoned rail line and City roads

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Alternative C – Industrial Park Alignment



- Upper Section: Same for all Alternatives
 - From Dundas St W (Highway 2) and 2nd Dug Hill Rd (County Rd 40) to Hillside Meadow Dr and 2nd Dug Hill Rd
 - Along Highway 2 and through existing and future developments
- Middle Section:
 - From Hillside Meadow Dr and 2nd Dug Hill Rd to existing sewer within future City industrial park (IP) lands
 - Along 2nd Dug Hill Rd, then east along an abandoned rail line through the future IP lands
- Lower Section: Same for all Alternatives
 - From existing sewer within future City IP lands to the existing river crossing sewers connecting to the Dundas St Sewage Pumping Station.
 - Along abandoned rail line and City roads

8

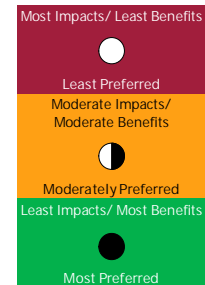
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Evaluation of Alternatives



Category	Evaluation Criteria	A	B	C
Technical Considerations	<ul style="list-style-type: none"> • Implementation Feasibility • Permits and Approvals • Reliability • Effectiveness • Compatibility with Existing Infrastructure • Flexibility • Operational Accessibility 	●	○	●
Natural Environment	<ul style="list-style-type: none"> • Terrestrial Systems • Aquatic Systems • Soil Contamination 	●	◐	●
Socio-Cultural Environment	<ul style="list-style-type: none"> • Recreational Land Uses and Visual Landscape • Future Planning Policies/Initiatives • Disruption During Construction • Archaeological and Cultural Resources 	○	○	●
Economic Factors	<ul style="list-style-type: none"> • Capital Cost • Operation and Maintenance 	●	○	●
Alternative Ranking		2	3	1



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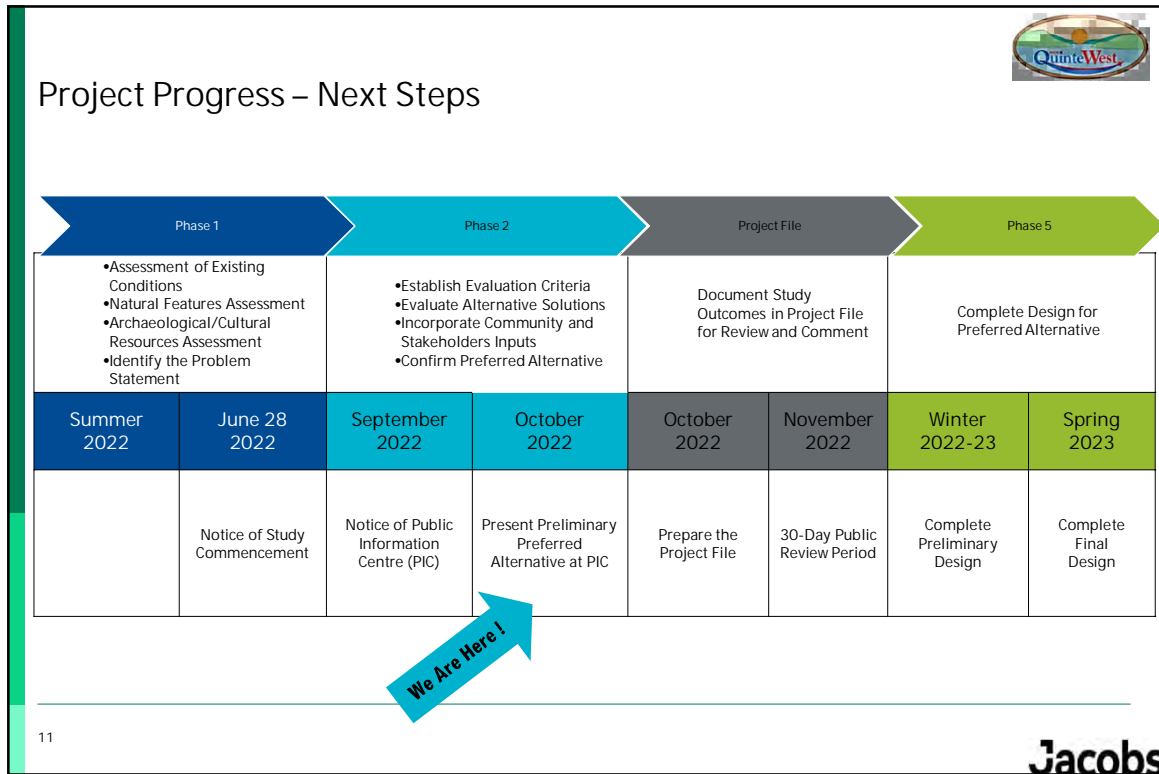
Key Factors in Evaluation of Alternatives



Alternatives	A – Existing Sewer Alignment	B – Escarpment Alignment	C – Industrial Park Alignment
Overall Score	2	3	1
Key Factors	<ul style="list-style-type: none"> • Constructability challenges with narrow utility corridor • More bypass pumping required to maintain existing service during construction • Disruption to residents and traffic on 2nd Dug Hill Rd, Sunshine Ln, and Parkview Heights • Lowest potential to service additional lands due to following existing sewer alignment • Highest amount of road reinstatement required leading to medium cost alternative 	<ul style="list-style-type: none"> • Environmental and constructability challenges with work within the escarpment and wetlands • Substantial tree removal required along escarpment likely necessitating tunnelling resulting in potentially high impacts on the natural and socio-cultural environment • Disruption to residents and traffic on 2nd Dug Hill Rd • Highest cost alternative due to work on escarpment 	<ul style="list-style-type: none"> • Environmental and constructability challenges near wetland and pond around 2nd Dug Hill Rd and abandoned rail line • Primarily along abandoned rail line which has minimal impacts on the natural or socio-cultural environment • Disruption to residents and traffic on 2nd Dug Hill Rd • Greatest potential to service additional lands due to alignment along 2nd Dug Hill Rd • Lowest cost alternative

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How to Stay Connected and Involved?


Send your feedback or your questions on this project to the email below before November 30, 2022

Matt Tracey
 Manager Water and Wastewater Services, Public Works and Environmental Services
 (613) 392-2841 Ext. 4482
 Mattt@quintwest.ca

Andrew Long
 Project Manager, Jacobs
 (437) 780-2441
 Andrew.Long3@jacobs.com

▪ If you would like to be kept updated on this project:

 quintwest.ca/blog/notice-of-public-information-centre



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*Feedback collected on this study will conform with the *Freedom of Information and Protection of Privacy Act*. It will be documented as part of this study and may be publicly available.

Jacobs

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Class Environmental Assessment Study

Notice of Public Information Centre

Trunk Sanitary Sewer – West End Trenton

Background

The City of Quinte West is undertaking a Municipal Class Environmental Assessment (EA) Study to identify, develop and implement a solution to address future capacity needs and existing sanitary sewer issues in the West End of Trenton. The study area for this Class EA is shown in the map below.

The West End Trunk Sanitary Sewer services a large area that is projected to experience substantial growth. Therefore, this study is to ensure reliable sanitary service is provided to existing areas and future growth areas.

Process

This project is being planned in accordance with the requirements for a Schedule B Municipal Class EA. The Class EA process includes consultation with the public and agencies, an evaluation of viable alternative solutions, an assessment of the impacts of the alternative solutions, identification of measures to mitigate any adverse impacts, and the selection of a preferred solution.

Your Input is Important

You are invited to a Public Information Centre (PIC) which is being held to present the findings of the EA and to provide opportunity to give feedback to the project team on the preliminary preferred alternative. The PIC is scheduled for **October 11, 2022, from 6:00PM to 8:00PM** at the **City Hall Council Chambers, 7 Creswell Dr, Trenton**. Display boards will be made available to the public at the PIC and online at

<https://quintewest.ca/blog/notice-of-public-information-centre>. Paper copies of the display boards will be made

available upon request. Following the PIC, the project team will review comments and finalize the preferred solution. In fall 2022, the Project File will be placed on public record for 30-day review.

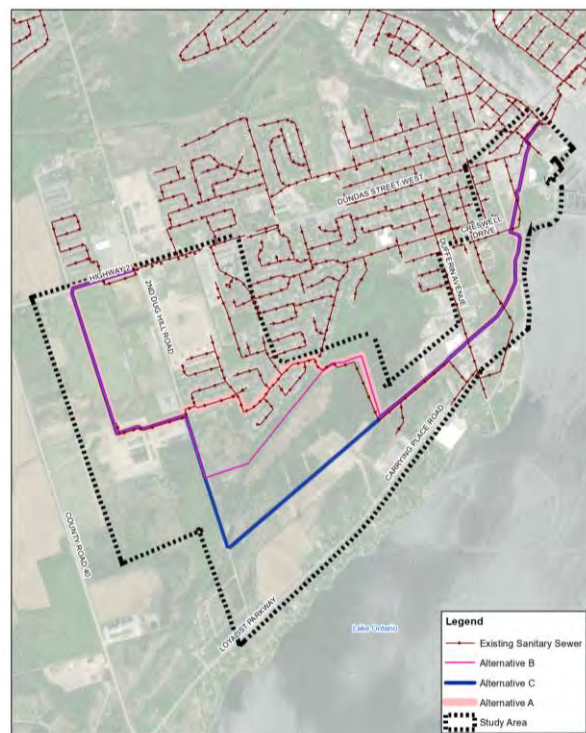
If you have any comments or questions regarding this project, or would like to receive further information, please send an email to one of the following project contacts:

Matt Tracey

Manager Water & Wastewater Services
Public Works & Environment Services
City of Quinte West, 7 Creswell Dr, PO Box 490
Trenton, ON, K8V 5R6
T: 613-392-2841 x4482 | F: 613-392-7151
Email: mattt@quintewest.ca

Andrew Long, P.Eng.

Project Manager
Jacobs
245 Consumers Rd, Suite 400
Toronto, ON, M2J 1R3
T: 437-780-2441
Email: andrew.long3@jacobs.com



This notice was first issued on September 28, 2022.



Trunk Sanitary Sewer – West End Trenton Environmental Assessment

Jacobs

Comment Sheet

The City of Quinte West is interested in receiving the community's comments, questions, and concerns regarding the Trunk Sanitary Sewer – West End Trenton Environmental Assessment project. Please take a few minutes to fill out this brief comment sheet. All comments will be carefully considered while completing the project.

Comments:

Based on the proposed options presented, I would favour "Alternative C". I believe it would be best to minimize disturbance in Hanna Park, and that alternative checks all the boxes for lowest impact. The Trenton escarpment features and Hanna Park contain species at risk such as butternut and 2 species of threatened songbirds that nest in that area. Since alternative C has a rail bed to follow it should also minimize impacts on the wetlands at 2nd Doughill Road. That area is also fairly disturbed already. Species to consider impacts on in the wetlands include Blanding's turtle and Painted turtle.

Name, Address, and Contact Details (optional):

~~Robert Orniston~~ Robert Orniston
287 Dundas St. West, K8V 3A9

Thank you for taking the time to provide your comments. Comment sheets may be returned to any of the presenters, or can be mailed, or emailed to the following:

Andrew Long, P.Eng.

Project Manager

Jacobs

245 Consumers Rd, Suite 400

Toronto, ON, M2J 1R3

Tel: 437-780-2441

andrew.long3@jacobs.com

Matt Tracey

Manager Water & Wastewater

Services, Public Works &

Environmental Services

City of Quinte West,

7 Creswell Dr, PO Box 490

Trenton, ON, K8V 5R6

Tel: 613-392-2841 ext. 4482

mattt@quintewest.com

With the exception of personal information, all comments will become part of the public record of the study. The study is being conducted in accordance with the requirements of the Municipal Class Environmental Assessment, which is a planning process approved under Ontario's Environmental Assessment Act.



Trunk Sanitary Sewer – West End Trenton Environmental Assessment

Jacobs

Comment Sheet

The City of Quinte West is interested in receiving the community's comments, questions, and concerns regarding the Trunk Sanitary Sewer – West End Trenton Environmental Assessment project. Please take a few minutes to fill out this brief comment sheet. All comments will be carefully considered while completing the project.

Comments:

- ① Options B or C are most preferred & least intrusive to the residents who live on Parkview. Option A would be devastating to the trees, birds, wildlife etc. on the embankment behind Parkview & Bridlewood.
- ② Seems much more efficient to take a direct line as in Alternative C & more cost effective long term.

Name, Address, and Contact Details (optional):

BRENDA FIELDING
62 PARKVIEW HTS, TRENTON K8V6P5

Thank you for taking the time to provide your comments. Comment sheets may be returned to any of the presenters, or can be mailed, or emailed to the following:

Andrew Long, P.Eng.

Project Manager

Jacobs

245 Consumers Rd, Suite 400

Toronto, ON, M2J 1R3

Tel: 437-780-2441

andrew.long3@jacobs.com

Matt Tracey

Manager Water & Wastewater

Services, Public Works &

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Trunk Sanitary Sewer – West End Trenton Environmental Assessment

Jacobs

Comment Sheet

The City of Quinte West is interested in receiving the community's comments, questions, and concerns regarding the Trunk Sanitary Sewer – West End Trenton Environmental Assessment project. Please take a few minutes to fill out this brief comment sheet. All comments will be carefully considered while completing the project.

Comments:

I agree with the analysis of Andrew and Matt that due to ^{environmental} concerns, ~~that is important~~ and maintaining natural ~~in the~~ ^{in the} sandy area, that alternate route B (escarpment alignment) is the least attractive option and alignment C is the preferred route. Matt and Andrew did a great job of addressing my ~~concerns~~ ^{questions} and I thank them for their time.

Name, Address, and Contact Details (optional):

BRAD LITTLE bradlittle444@gmail.com

Thank you for taking the time to provide your comments. Comment sheets may be returned to any of the presenters, or can be mailed, or emailed to the following:

Andrew Long, P.Eng.
Project Manager
Jacobs
245 Consumers Rd, Suite 400
Toronto, ON, M2J 1R3
Tel: 437-780-2441
andrew.long3@jacobs.com

Matt Tracey
Manager Water & Wastewater
Services, Public Works &
Environmental Services
City of Quinte West
7 Creswell Dr, PO Box 490
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Trunk Sanitary Sewer – West End Trenton Environmental Assessment

Jacobs

Comment Sheet

The City of Quinte West is interested in receiving the community's comments, questions, and concerns regarding the Trunk Sanitary Sewer – West End Trenton Environmental Assessment project. Please take a few minutes to fill out this brief comment sheet. All comments will be carefully considered while completing the project.

Comments:

I support options B or C as the least intrusive. On another note, I'd like to ask that the city make a greater effort to inform the public. For example, the maps in the City website are not current. They should show not only the existing infrastructure but also any planned development. Maps do not show where future roads and housing will be built. Perhaps the city could use to wall space on the second floor of city hall to show maps and diagrams of what the city will look like in 5 or 10 years. There is no need to restrict this information.

Name, Address, and Contact Details (optional):

Michael Fielding, 62 Parkview Hts, Trenton
K8V 6P5 (613) 849-2391

Thank you for taking the time to provide your comments. Comment sheets may be returned to any of the presenters, or can be mailed, or emailed to the following:

Andrew Long, P.Eng.
Project Manager
Jacobs
245 Consumers Rd, Suite 400
Toronto, ON, M2J 1R3
Tel: 437-780-2441
andrew.long3@jacobs.com

Matt Tracey
Manager Water & Wastewater
Services, Public Works &
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City of Quinte West,
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Trunk Sanitary Sewer – West End Trenton Environmental Assessment



Public Information Centre – October 11, 2022

If you wish to be added to our mailing list for this project, please provide your contact information and check the "Mailing List?" box below.

Attendance Register

Please Print Clearly

Name	Address	Postal Code	Telephone	Email Address	Mailing List?
MICHAEL FIELDING	62 PARKVIEW HTS	K8V6P5	613-849-2391	fielding.mw@gmail.com	✓
BRENDA FIELDING	62 PARKVIEW HTS.	K8V6P5	613-885-2449	bfielding16@gmail.com	✓
BRAD LITTLE	22 BRIDLEWOOD LANE	K8V6N4	416 567 0920	bradlittle444@gmail.com	✓
Robert Orange	787 Dundas St. West	K8V3J2	613 392 3679	boblyn520@gmail.com	✓
Montie Thomas	64 PARKVIEW HEIGHTS	K8V6P5	647 525 6311	montie-thms@yahoo.com	✓
Arnold Vanburen	VAN MEER, 83 NORTH PARKS BELLEVILLE		613 969-0171	meer. AHVanburen@gmail.com	✓

With the exception of personal information, all comments will become part of the public record of the study. The study is being conducted in accordance with the requirements of the Municipal Class Environmental Assessment, which is a planning process approved under Ontario's Environmental Assessment Act.