

**Schedule B Municipal Class Environmental Assessment for a New  
Treated Water Storage Facility in Madoc, Ontario (FINAL)**

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**Appendix B**

Desktop Natural Heritage Review (Cambium, 2024)



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May 6, 2024

Susan Jingmiao Shi  
Senior Environmental Engineer  
J.L. Richards and Associates Ltd.  
sshij@jlrichards.ca

Attn: Susan Jingmiao Shi

**Re: Desktop Natural Heritage Review of Three Potential Water Storage  
Facilities in the Town of Madoc, Ontario**  
**Cambium Reference: 20223-001**

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Dear Susan,

**INTRODUCTION**

The Town of Madoc is carrying out a Municipal Class Environmental Assessment (MCEA) Class B project, to select a location for a new water storage facility in Madoc, Ontario. Cambium Inc. (Cambium) was retained by J.L. Richards and Associates Limited (JLR) to conduct a desktop review of Natural Heritage features as required by the MCEA process to aid in the selection of a preferred location for the construction of a new above grade reservoir and associated booster pump station. This memorandum considers three alternate water storage locations plus 120 meters (m) of adjacent lands to be considered the Sites for the purpose of the Study. Figure 1 provides the location of the Sites within the Village of Madoc. The Sites are located at 119 McKenzie Street, 71 Davidson Street, and 29 Rollins Street, Madoc, Ontario.

**METHODOLOGY**

Cambium conducted a desktop review of available mapping, imagery, and natural heritage information available for each Site, and the areas within 120 meters of each Site. The information was used to identified potential significant natural features as well as potential species at risk and/or their habitat. The desktop review included available imagery, mapping, and the following sources:



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- MNRF Natural Heritage Information Centre (NHIC) Make-a-Map geographic explorer for SAR, rare (S1-S3) species reported as occurring in the vicinity of the Site, and natural areas information queries (MNRF, 2024)
- Environment and Climate Change Canada's (ECCC) SAR Public Registry (ECCC, 2022) including COSEWIC status reports, assessments, and recovery strategies
- Bat Conservation International (BCI) range maps (BCI, 2022)
- Ontario Butterfly Atlas (Jones et al., 2024)
- eBird species maps (eBird, 2024)
- Ontario Reptile and Amphibian Atlas (ORAA) (Ontario Nature, 2018)
- Atlas of the Breeding Birds of Ontario, (Cadman et al, 2007)
- DFO Aquatic Species at Risk Maps (DFO, 2024)
- County of Hastings Official Plan, and all relevant Schedules (Hastings County, 2018)

It should be noted that the results presented in this memorandum are based upon a desktop review. No field surveys or site visits have been completed to verify the desktop information.

## RESULTS

### EXISTING CONDITIONS

The three sites are within the residential areas of the Town of Madoc, in Hastings County, Ontario, and are within Ecoregion 5E of Ontario (Crins, Gray, Uhlig, & Wester, 2009).

#### **119 MCKENZIE STREET**

This Site is a manicured lot within a residential area with a few individual trees, a lawn area, and an existing water tower. Within 120 m of this Site is residential properties, a treed graveyard, small meadows, treed areas, and a forested woodlot.



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**71 DAVIDSON STREET**

This Site is a lot in a residential area, that appears to have had some residential or commercial use historically and is currently re-naturalizing with some vegetation including trees and shrubs. Some areas appear to be manicured, with some scattered debris piles. Within 120 m of this site is residential properties, a small woodlot, as well as other patches of natural vegetation. There appears to be a small low-lying wet area about 70 m northwest of the Site, that may contain wetland vegetation.

**29 ROLLINS STREET**

This Site is a lot in a residential area, that appears to be semi-naturalized with small trees and shrubs. Some areas may still undergo manicuring such as mowing of grass. Within 120 m of the site is additional treed residential properties and a very small woodlot to the southwest.

**DESKTOP NATURAL HERITAGE FEATURES**

No mapped natural heritage features were identified on the Sites, or within 120 m of the Sites. There are small woodlots within 120 m of each of the three Sites, but none of these meet the criteria to be considered significant, and none overlap with the Sites themselves. The potential small low-lying area ~ 70 m northwest of 71 Davidson Street appears to be too small to be mapped as a wetland under any classification system and would not meet the criteria to be considered a provincially significant wetland. Because of the lack of mapped features, no mappable constraints are present in Figure 1 through Figure 3.

Potential habitat for nesting birds protected under the Migratory Birds Convention Act (MBCA), is present on all three Sites (e.g. trees and shrubs).

Several species at risk (SAR) had records identified during the desktop review. However, the precise location of these records is not known and the accuracy ranges from 1 kilometer (km) to 10 km depending upon which database included them. A desktop habitat assessment of these species, as well as any other SAR with range maps that overlap the Site, was conducted for each of the Sites.



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Results of this assessment are presented below in Table 1 - Table 3, only those species with potential habitat on the Sites, or within 120m of the Sites are included.

**Table 1 Potential SAR on Site and within 120 meters of 119 McKenzie Street**

Common Name	Scientific Name	S-Rank <sup>a</sup>	ESA <sup>b</sup>	SARA <sup>c</sup>	Potential Habitat
Barn Swallow	<i>Hirundo rustica</i>	S4B	SC	THR	<ul style="list-style-type: none"> <li>None on Site.</li> <li>Potential Nesting Habitat on buildings within 120</li> </ul>
Bobolink	<i>Dolichonyx oryzivorus</i>	S4B	THR	THR	<ul style="list-style-type: none"> <li>None on Site.</li> <li>Potential nesting habitat in meadows within 120 m</li> </ul>
Chimney swift	<i>Chaetura pelagica</i>	S4B,S4N	THR	THR	<ul style="list-style-type: none"> <li>Note on Site</li> <li>Potential nesting habitat in buildings within 120 m</li> </ul>
Eastern wood-pewee	<i>Contopus virens</i>	S4B	SC	SC	<ul style="list-style-type: none"> <li>None on Site</li> <li>Potential nesting habitat in woodlots within 120 m</li> </ul>
Eastern meadowlark	<i>Sturnella magna</i>	S4B	THR	THR	<ul style="list-style-type: none"> <li>None on Site</li> <li>Potential nesting habitat in meadows within 120 m</li> </ul>
Red-headed woodpecker	<i>Melanerpes erythrocephalus</i>	S4B	END	END	<ul style="list-style-type: none"> <li>Potential nesting habitat in trees on Site and within 120 m</li> </ul>
Wood thrush	<i>Hylocichla mustelina</i>	S4B	SC	THR	<ul style="list-style-type: none"> <li>None on Site</li> <li>Potential nesting habitat in woodlots within 120 m</li> </ul>
Little brown myotis	<i>Myotis lucifugus</i>	S4	END	END	<ul style="list-style-type: none"> <li>Potential maternity roost habitat in trees on Site, and in trees and buildings within 120 m</li> </ul>
Monarch	<i>Danaus Plexippus</i>	S2N,S4B	SC	SC	<ul style="list-style-type: none"> <li>None on Site</li> <li>Potential larval and/or feeding habitat in milkweed and other flowering plants within 120 m</li> </ul>
Butternut	<i>Juglans cinerea</i>	S2?	END	END	<ul style="list-style-type: none"> <li>Unlikely but may occur on Site, and potential to occur within 120 m</li> </ul>

<sup>a</sup> Ranks based upon determinations made by the Ontario Natural Heritage Information Centre

S = Provincial; Ranks 1-3 are considered imperiled or rare; Ranks 4 and 5 are considered secure.

SNA = Not applicable for Ontario Ranking (e.g. Exotic species)

<sup>b</sup> Canada Species at Risk Act (Schedule 1)

<sup>c</sup> Ontario Endangered Species Act (O.Reg.230/08)

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





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**Table 2 Potential SAR on Site and within 120 meters of 71 Davidson Street**

Common Name	Scientific Name	S-Rank <sup>a</sup>	ESA <sup>b</sup>	SARA <sup>c</sup>	Potential Habitat
Barn Swallow	<i>Hirundo rustica</i>	S4B	SC	THR	<ul style="list-style-type: none"> <li>None on Site.</li> <li>Potential Nesting Habitat on buildings within 120 m</li> </ul>
Chimney swift	<i>Chaetura pelagica</i>	S4B,S4N	THR	THR	<ul style="list-style-type: none"> <li>Note on Site</li> <li>Potential nesting habitat in buildings within 120 m</li> </ul>
Eastern wood-pewee	<i>Contopus virens</i>	S4B	SC	SC	<ul style="list-style-type: none"> <li>None on Site</li> <li>Potential nesting habitat in woodlots within 120 m</li> </ul>
Red-headed woodpecker	<i>Melanerpes erythrocephalus</i>	S4B	END	END	<ul style="list-style-type: none"> <li>Potential nesting habitat in trees on Site and within 120 m</li> </ul>
Wood thrush	<i>Hylocichla mustelina</i>	S4B	SC	THR	<ul style="list-style-type: none"> <li>None on Site</li> <li>Potential nesting habitat in woodlots within 120 m</li> </ul>
Little brown myotis	<i>Myotis lucifugus</i>	S4	END	END	<ul style="list-style-type: none"> <li>Potential maternity roost habitat in trees on Site, and in trees and buildings within 120 m</li> </ul>
Western chorus frog	<i>Pseudacris triseriata</i>	S3	-	THR	<ul style="list-style-type: none"> <li>None on Site</li> <li>Potential to breed in the small low-lying area within 120m of the Site.</li> </ul>
Monarch	<i>Danaus Plexippus</i>	S2N,S4B	SC	SC	<ul style="list-style-type: none"> <li>None on Site</li> <li>Potential larval and/or feeding habitat in milkweed and other flowering plants within 120 m</li> </ul>
Butternut	<i>Juglans cinerea</i>	S2?	END	END	<ul style="list-style-type: none"> <li>Unlikely but may occur on Site, and potential to occur within 120 m</li> </ul>

<sup>a</sup> Ranks based upon determinations made by the Ontario Natural Heritage Information Centre

S = Provincial; Ranks 1-3 are considered imperiled or rare; Ranks 4 and 5 are considered secure.

SNA = Not applicable for Ontario Ranking (e.g. Exotic species)

<sup>b</sup> Canada Species at Risk Act (Schedule 1)<sup>c</sup> Ontario Endangered Species Act (O.Reg.230/08)

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**Table 3 Potential SAR on Site and within 120 meters of 29 Rollins Street**

Common Name	Scientific Name	S-Rank <sup>a</sup>	ESA <sup>b</sup>	SARA <sup>c</sup>	Potential Habitat
Barn Swallow	<i>Hirundo rustica</i>	S4B	SC	THR	<ul style="list-style-type: none"> <li>None on Site.</li> </ul>
Chimney swift	<i>Chaetura pelagica</i>	S4B,S4N	THR	THR	<ul style="list-style-type: none"> <li>Note on Site</li> <li>Potential nesting habitat in buildings within 120 m</li> </ul>
Eastern wood-pewee	<i>Contopus virens</i>	S4B	SC	SC	<ul style="list-style-type: none"> <li>None on Site</li> <li>Potential nesting habitat in woodlots within 120 m</li> </ul>
Red-headed woodpecker	<i>Melanerpes erythrocephalus</i>	S4B	END	END	<ul style="list-style-type: none"> <li>Potential nesting habitat in trees on Site and within 120 m</li> </ul>
Wood thrush	<i>Hylocichla mustelina</i>	S4B	SC	THR	<ul style="list-style-type: none"> <li>None on Site</li> <li>Potential nesting habitat in woodlots within 120 m</li> </ul>
Little brown myotis	<i>Myotis lucifugus</i>	S4	END	END	<ul style="list-style-type: none"> <li>Potential maternity roost habitat in trees on Site, and in trees and buildings within 120 m</li> </ul>
Monarch	<i>Danaus plexippus</i>	S2N,S4B	SC	SC	<ul style="list-style-type: none"> <li>None on Site</li> <li>Potential larval and/or feeding habitat in milkweed and other flowering plants within 120 m</li> </ul>
Butternut	<i>Juglans cinerea</i>	S2?	END	END	<ul style="list-style-type: none"> <li>Unlikely but may occur on Site, and potential to occur within 120 m</li> </ul>

<sup>a</sup> Ranks based upon determinations made by the Ontario Natural Heritage Information Centre

S = Provincial; Ranks 1-3 are considered imperiled or rare; Ranks 4 and 5 are considered secure.

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<sup>b</sup> Canada Species at Risk Act (Schedule 1)<sup>c</sup> Ontario Endangered Species Act (O.Reg.230/08)

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

**IMPACT ASSESSMENT AND RECOMMENDATIONS****WETLANDS**

No wetlands are mapped or appear to be present on any of the Sites, or within 120 m of the Sites. The small low-lying feature within 120 m of 71 Davison Street, does not appear to meet the any criteria to be classified as a wetland, due to its small size. In addition, this wet area appears to be greater than 30 m from the Site, and therefore the Site is outside of any potential regulated area of the



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Conservation Authority. Therefore, no impacts to wetlands or hazard lands are anticipated.

**WOODLANDS**

No significant woodlands are mapped on any of the Sites, or within 120 m. No woodlands at all occur on any of the Sites, but woodlots do occur within 120 m of each Site. The amount of woodland cover is high across the landscape within Ecoregion 5E. As such, the Natural Heritage Reference Manual and the PPS do protect or designate significant woodlands within Ecoregion 5E.

**SIGNIFICANT WILDLIFE HABITAT**

In addition, no significant wildlife habitat is mapped or appears to be present within the Sites themselves. No Significant wildlife habitat is mapped within 120 m of each Site, however unmapped significant wildlife habitat may occur within the natural areas, but this would need to be confirmed with field surveys.

**FISHERIES**

No fish habitat is mapped or appears to be present on any of the Sites, or within 120m of the Sites. Therefore, no impacts to fish habitat are anticipated. No watercourses or waterbodies appear to occur within the Sites or within 120 m of the Sites.

**SPECIES AT RISK**

The trees on all three sites have potential to be suitable nesting and maternity roosting habitat for little brown myotis (*Myotis lucifugus*), and red-headed woodpecker (*Melanerpes erythrocephalus*). In addition, butternut (*Juglans cinerea*) may occur on or within 120 m of all three Sites. All three of these species are designated as endangered under the *Endangered Species Act* (ESA), and the *Species at Risk Act* (SARA). Other SAR have potential to occur within 120m of the Site (Table 1 - Table 3), however these are unlikely to occur on the Site itself. It is highly unlikely that impacts to SAR habitat off-site, but within 120m is likely to occur, however we cannot dismiss potential impacts to the little brown myotis, red-headed woodpecker, or butternut on the Sites





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themselves, without additional information (i.e. field surveys by a qualified ecologist), and a detailed Site Plan (e.g. where tree removals will occur).

The ESA protects endangered and threatened species and their habitats from harm or destruction. Habitat for endangered and threatened species is also afforded protection under provincial natural heritage policy; however, it is ultimately the proponent's responsibility to ensure that no harm to these species or their habitats occurs on their property.

## MIGRATORY BIRDS

Nesting birds and their nests, eggs, and young are protected under the *Migratory Birds Convention Act*, 1994. Vegetation clearing on the Site should occur outside the breeding bird season, which extends from April 1 to August 31 in the local area (as per Environment and Climate Change Canada Guidelines).

If vegetation clearing or construction is to occur from April 1 to August 31, the vegetation should be investigated by a qualified biologist to confirm if any active bird nests are present, prior to site alteration. Vegetation clearing can proceed, provided there are no active nests. If active nests are confirmed, or if the biologist suspects nesting is present, the nests should be left undisturbed until young have fledged or the nest is determined to be inactive. Note that some birds nest on the ground and in low-lying vegetation and shrubs; therefore, all habitat types should be inspected prior to ground disturbance if removals are to occur during the breeding season.

## CLOSING

The only potential constraints identified during this desktop screening is nesting habitat for migratory birds and potential habitat for SAR. Migratory birds can be mitigated, as discussed above through timing work to avoid their nesting period. There is potential for nesting and maternity roost habitat for red-headed woodpecker, and little brown myotis, within the trees on all three Sites. If this habitat is present, tree clearing has the potential to impact it, and an authorization under the ESA may be required. Additional possible SAR habitat



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occurs on adjacent lands within 120m but is less likely to be impacted by the proposed development.

As noted, this is a desktop review only. A preliminary Site review is recommended for the location selected as the technically preferred alternative carried forward for design to confirm desktop information and gain site specific information. Feel free to contact the undersigned should you have any questions regarding this letter.

Best regards,

**Cambium Inc.**

DocuSigned by:  
*Matthew Wheeler*  
444192DEEE8D462...  
Matthew Wheeler, B.A. Hons.  
Project Manager / Senior Ecologist

DocuSigned by:  
*Fergus Nicoll*  
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Ecological Specialist

FN/MBW

- Encl. Cambium Qualifications & Limitations
- Figure 1 Key Plan
- Figure 2 Natural Heritage Constraints McKenzie Street
- Figure 3 Natural Heritage Constraints Davidson Street
- Figure 4 Natural Heritage Constraints Rollins Street

\\cambiumincstorage.file.core.windows.net\projects\20200 to 20299\20223-001 J L Richards & Associates Ltd - ENV - Madoc Master Plan MCEA\Deliverables\REPORT - X\Final\2024-05-06 MEM Natural Heritage-Madoc Master Plan\_Water Tower 20223-001.docx



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**CAMBIUM QUALIFICATIONS AND LIMITATIONS**Limited Warranty

In performing work on behalf of a client, Cambium relies on its client to provide instructions on the scope of its retainer and, on that basis, Cambium determines the precise nature of the work to be performed. Cambium undertakes all work in accordance with applicable accepted industry practices and standards. Unless required under local laws, other than as expressly stated herein, no other warranties or conditions, either expressed or implied, are made regarding the services, work or reports provided.

Reliance on Materials and Information

The findings and results presented in reports prepared by Cambium are based on the materials and information provided by the client to Cambium and on the facts, conditions and circumstances encountered by Cambium during the performance of the work requested by the client. In formulating its findings and results into a report, Cambium assumes that the information and materials provided by the client or obtained by Cambium from the client or otherwise are factual, accurate and represent a true depiction of the circumstances that exist. Cambium relies on its client to inform Cambium if there are changes to any such information and materials. Cambium does not review, analyze or attempt to verify the accuracy or completeness of the information or materials provided, or circumstances encountered, other than in accordance with applicable accepted industry practice. Cambium will not be responsible for matters arising from incomplete, incorrect or misleading information or from facts or circumstances that are not fully disclosed to or that are concealed from Cambium during the provision of services, work or reports.

Facts, conditions, information and circumstances may vary with time and locations and Cambium's work is based on a review of such matters as they existed at the particular time and location indicated in its reports. No assurance is made by Cambium that the facts, conditions, information, circumstances or any underlying assumptions made by Cambium in connection with the work performed will not change after the work is completed and a report is submitted. If any such changes occur or additional information is obtained, Cambium should be advised and requested to consider if the changes or additional information affect its findings or results.

When preparing reports, Cambium considers applicable legislation, regulations, governmental guidelines and policies to the extent they are within its knowledge, but Cambium is not qualified to advise with respect to legal matters. The presentation of information regarding applicable legislation, regulations, governmental guidelines and policies is for information only and is not intended to and should not be interpreted as constituting a legal opinion concerning the work completed or conditions outlined in a report. All legal matters should be reviewed and considered by an appropriately qualified legal practitioner.

Site Assessments

A site assessment is created using data and information collected during the investigation of a site and based on conditions encountered at the time and particular locations at which fieldwork is conducted. The information, sample results and data collected represent the conditions only at the specific times at which and at those specific locations from which the information, samples and data were obtained and the information, sample results and data may vary at other locations and times. To the extent that Cambium's work or report considers any locations or times other than those from which information, sample results and data was specifically received, the work or report is based on a reasonable extrapolation from such information, sample results and data but the actual conditions encountered may vary from those extrapolations.

Only conditions at the site and locations chosen for study by the client are evaluated; no adjacent or other properties are evaluated unless specifically requested by the client. Any physical or other aspects of the site chosen for study by the client, or any other matter not specifically addressed in a report prepared by Cambium, are beyond the scope of the work performed by Cambium and such matters have not been investigated or addressed.

Reliance

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Personal Liability

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**ENVIRONMENTAL  
IMPACT STUDY**  
JLR CHARDS & ASSOCIATES LTD.  
118 Webster St, Ft. Dickson St.  
20 Rollis St  
Marrero, Ontario

**LEGEND**

	Highway
	Major Road
	Minor Road
	Continuous 15m Interval
	Watercourse, Perennial
	Eradication
	Water Area
	Wetland (Areas of Use)
	Locally Significant Wetland
	Wooded Area
	Build Up Area
	Site Approximate
	120m Adjacent Lands

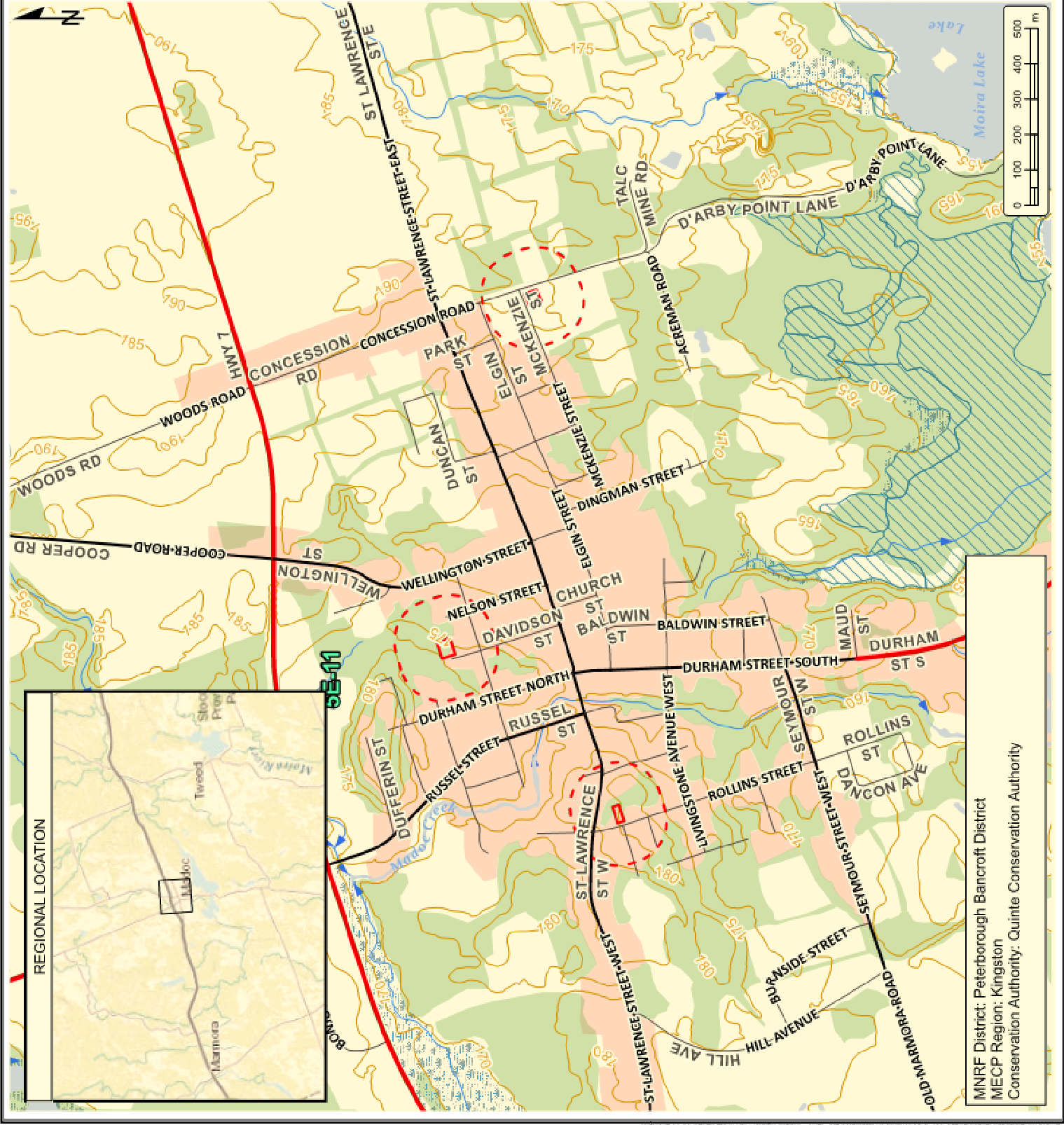
**NOTES:**

- This map is for informational purposes only and does not constitute a professional engineering or architectural drawing.
- It is intended for use as a guide only and should not be used for any legal or regulatory purposes.
- The information on this map is based on the best available information at the time of preparation.
- The information on this map is not intended to be used for any purpose other than that for which it was prepared.
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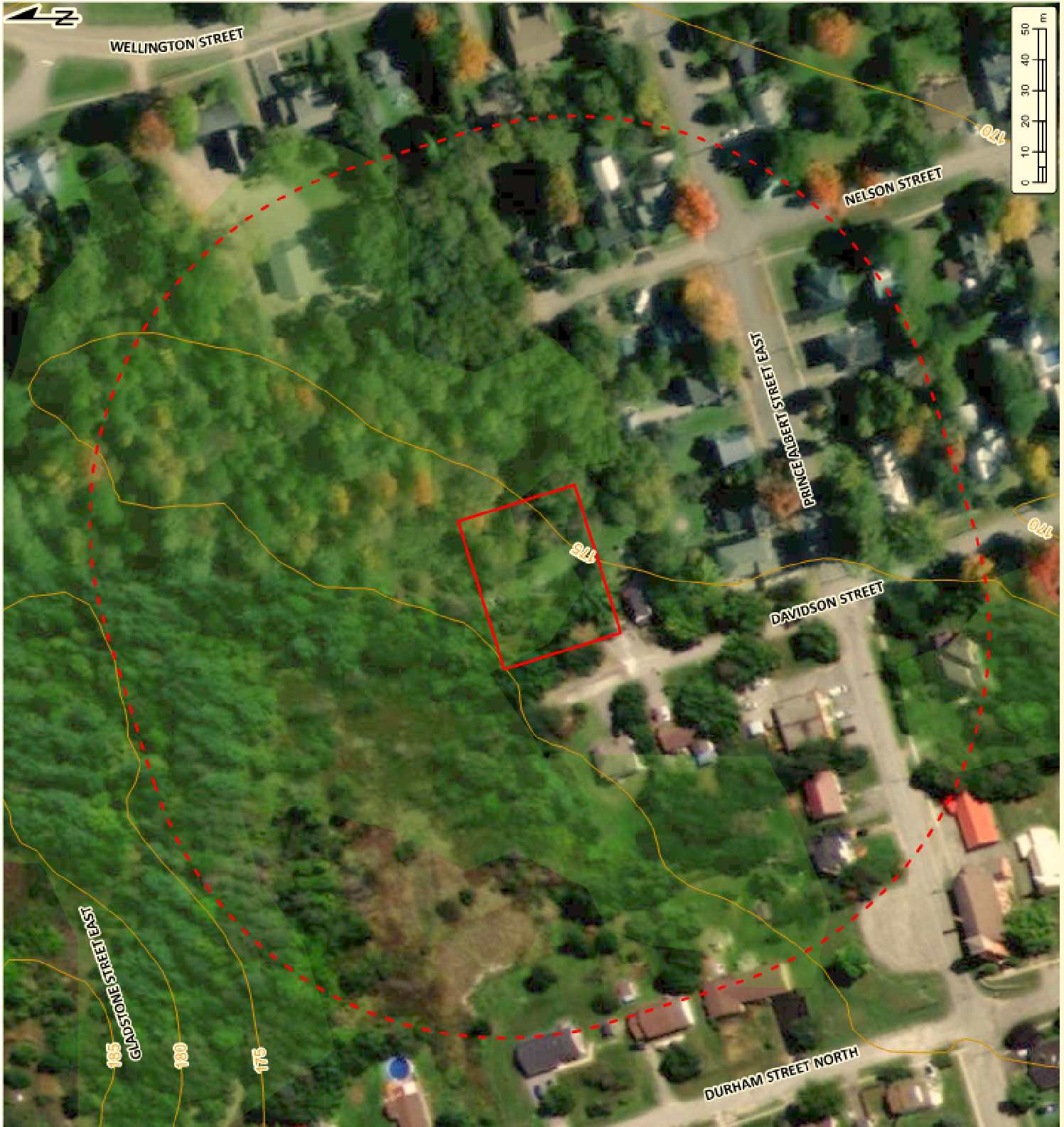
**LANDSCAPE SETTING  
AND POLICY AREAS**

Project No.:	2022-01-01	Date:	April 2022
Scale:	1:15,000	Prepared by:	JLR CHARDS & ASSOCIATES LTD.
Created by:	JLR	Checked by:	JLR
DWG	MAP	Figure:	1



MNRF District: Peterborough Bancroft District  
MECP Region: Kingston  
Conservation Authority: Quinte Conservation Authority





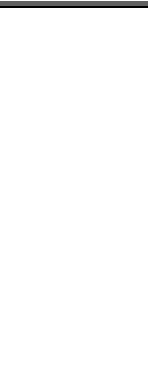
**ENVIRONMENTAL IMPACT STUDY**  
 J.L. RICHARDS & ASSOCIATES LTD.  
 119 Midburne St., 71 Davidson St.  
 25 Rollins St.  
 Windsor, Ontario

**LEGEND**

- Contours - 15m Interval
- Protected Area
- Site (approximate)
- 120m Adjacent Lands

**Notes:**

- This is a preliminary map for informational purposes only.
- This map is not intended to be used as a legal document.
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**NATURAL HERITAGE CONSTRAINTS**  
 DAVIDSON STREET

Project No.:	2022-1001	Date:	April 2024
Scale:	1:1,500	Prepared by:	JLR
Created by:	JLR	Checked by:	JLR
Drawn by:	JLR	Map:	
Figure:		Page:	<b>3</b>



**ENVIRONMENTAL IMPACT STUDY**  
 J.L. RICHARDS & ASSOCIATES LTD.  
 119 Moberly St., 71 Dartmouth St.  
 25 Rollins St.  
 Windsor, Ontario

**LEGEND**

- Contours - 15m Interval
- Wooded Area
- Site (approximate)
- 120m Adjacent Lands

**NATURAL HERITAGE CONSTRAINTS**  
 ROLLINS STREET

Project No.: 20221001 Date: April 2022  
 Scale: 1:1,500. North arrow pointing up  
 Created by: DMS Map: Figure: 4

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