

APPENDIX B.1

Natural Heritage Study Scoping Checklist (NHSSC)

General Information:

Application/Project Name: _____

Proponent: _____ Date: _____

Type of Application/File Number: _____

Natural heritage study type*: _____

Lead Consultant: _____

Primary Contact: _____

Ecological Consultant: _____

* Natural heritage study type: May be a SLSR (Subject Lands Status Report), EIS (Environmental Impact Study) or other natural heritage study (such as a Species at Risk screening study). If an EIS, please specify if it is a Full EIS, Scoped EIS or Focussed EIS. See Section 2.3 for descriptions of each.

Natural heritage study pathway selected:

Option A: No pre-consultation with City	Option B: Pre-consultation with City
☐ NHSSC completed by applicant's consultant(s)	☐ NHSSC completed by applicant's consultant(s)
☐ NHSSC not scoped with City prior to submission	☐ NHSSC scoped in consultation with City Ecologist and TRT (see below)
☐ NHSSC accepted by City Ecologist as part of a complete natural heritage study submission	☐ NHSSC accepted by City Ecologist as confirmed natural heritage study Terms of Reference

Explanatory Notes, if needed: _____

Technical Review Team (TRT):

☐ City Ecologist: _____

☐ City Planner (for the File): _____

☐ Conservation Authority Representative(s) (if applicable):

☐ Other Government Agency Representative (if applicable):

☐ Other Representative (if applicable):

☐ First Nation(s) Representative(s) (if applicable):

Subject Lands and Study Area:

Location/Address and Size (ha) of Subject Lands: _____

Study Area Size (approximate ha): _____ Subwatershed: _____

☐ Map of Subject Lands and Study Area on most current available air photo

☐ Map of Subject Lands and Study Area with NHS components within ~1 km

Is the proposed location within 120 m of the Thames River?

☐ Yes** ☐ No ****If Yes, must reach out to and engage with local First Nation communities.**

Policy Framework:

☐ Study must demonstrate how it conforms to the *Provincial Planning Statement*

☐ Study must demonstrate how it conforms to *The London Plan*

☐ Study must demonstrate how it conforms to: _____

Mapping That Must Be Considered:

Map 1 Place Types currently in place:

☐ Green Space on subject lands ☐ Environmental Review on subject lands

☐ Green Space in adjacent lands ☐ Environmental Review in adjacent lands

Other Place Types: _____

Map 4 Active Mobility Network considerations:

☐ Pathway placement and /or future trail accesses to be considered

Map 5 Natural Heritage System components mapped in Study Area:

- | | |
|---|---|
| ☐ Watercourse(s)/Fish Habitat | Name: _____ |
| ☐ Provincially Significant Wetland (PSW) | Name: _____ |
| ☐ Area of Natural & Scientific Interest | Name: _____ |
| ☐ Environmentally Significant Area (ESA) | Name: _____ |
| ☐ Wetlands (Non-PSW) | ☐ Unevaluated Wetlands |
| ☐ Potential ESA | ☐ Upland Corridors |
| ☐ Significant Woodlands | ☐ Woodlands |
| ☐ Significant Valleylands | ☐ Valleylands |
| ☐ Unevaluated Vegetation Patch(es) | ☐ Potential Naturalization Areas |

Patch No(s). _____

Note: Air photo interpretation and / or previous studies may identify potential features not on Map 5.

Map 6 Natural Hazards and Conservation Authority Mapping to be Considered:

- ☐ Natural Hazards on subject lands
- ☐ Natural Hazards adjacent to subject lands
- ☐ Conservation Authority Regulated Areas on subject lands
- ☐ Conservation Authority Regulated Areas on adjacent lands

Required Field Investigations:

Aquatic:

- ☐ Aquatic Habitat Assessment: _____
- ☐ Fish Community (Collection): _____
- ☐ Spawning Surveys: _____
- ☐ Benthic Invertebrate Survey: _____
- ☐ Mussel Surveys: _____
- ☐ Other: _____

Wetlands:

- ☐ Wetland Delineation: _____
- ☐ Wetland Evaluation (OWES): _____
- ☐ Other: _____

Terrestrial (Upland and Lowland):

- ☐ Vegetation Communities Mapping and Assessment (i.e., ELC): _____
- ☐ Botanical Inventories: ☐ Winter ☐ Spring ☐ Summer ☐ Fall
- ☐ Bird Surveys (type & frequency):
 - ☐ Breeding Birds: _____ ☐ Crepuscular Birds: _____
 - ☐ Raptors: _____ ☐ Other: _____
- ☐ Amphibian Surveys (type & frequency): _____
- ☐ Reptile Surveys (type & frequency):
 - ☐ Turtles: _____
 - ☐ Snakes: _____
 - ☐ Other: _____
- ☐ Bat Habitat Surveys (type & frequency):
 - ☐ Bat Habitat and/or Cavity Surveys: _____
 - ☐ Bat Acoustic Surveys: _____

Terrestrial (Upland and Lowland) (continued):

- ☐ Mammal Surveys (other than Bats) (type & frequency): _____
- ☐ Winter Wildlife Surveys (type & frequency): _____

Insect Surveys (type & frequency):

- ☐ Butterflies (Lepidoptera): _____
- ☐ Dragonflies / Damselflies (Odonata): _____
- ☐ Other: _____
- ☐ Species at Risk (SAR) Specific Surveys (type & frequency): _____

-
- ☐ Significant Wildlife Habitat (SWH) Specific Surveys (type & frequency): _____

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- ☐ Other: _____

Supporting Concurrent Studies/Investigations Required:

- ☐ Hydrogeological/Groundwater: _____
- ☐ Surface Water/Hydrology: _____
- ☐ Water Balance (feature and/or site-based): _____

Fluvial Geomorphological (type & frequency):

- ☐ Headwater Drainage Feature (HDF) Assessment: _____
- ☐ Other: _____

- ☐ Geotechnical: _____
- ☐ Tree Inventory (specify where on Subject Lands): _____
- ☐ Other: _____

Required Assessment and Evaluation of Significance:

Federal:

- ☐ Fish Habitat
- ☐ Other Federal: _____
- ☐ Species at Risk

Provincial:

- ☐ Provincially Significant Wetlands
- ☐ Significant Woodlands
- ☐ Significant Valleylands
- ☐ Significant Wildlife Habitat (Ecoregion 7E)
- ☐ Areas of Natural & Scientific Interest
- ☐ Fish Habitat
- ☐ Water Resource Systems (specify): _____
- ☐ Provincially Endangered or Threatened Species (specify if known): _____

Municipal - City of London:

- ☐ Environmentally Significant Areas (ESA), Potential ESA
- ☐ Significant Woodlands, Woodlands
- ☐ Significant Valleylands, Valleylands
- ☐ Wetlands, Unevaluated Wetlands
- ☐ Significant Wildlife Habitat
- ☐ Unevaluated Vegetation Patches (Map 5)
- ☐ Other Vegetation Patches >0.5 ha (unmapped)
- ☐ Potential Naturalization Area
- ☐ Other: _____

Impact Assessment (Required for all EIS):

- ☐ Impact Assessment
- ☐ Impact Assessment and Net Effects Table

Environmental Management Recommendations (Required for all EIS and SLSR, and may be required for other natural heritage studies):

Environmental Management

- ☐ Recommendations: _____
- ☐ Environmental Management Plan (as a stand-alone appendix or report): _____
- ☐ Specifications & Conditions of Approval: _____
- ☐ Other: _____

Environmental Monitoring (Required for all EIS and may be required for SLSR and other natural heritage studies):

- ☐ Baseline Monitoring (specify framework or more detailed plan): _____
- ☐ Construction Monitoring (specify framework or more detailed plan): _____
- ☐ Post-Construction Monitoring (specify framework or more detailed plan): _____

Other natural heritage study-specific requirements:

Rationale and Explanatory Notes: