

Appendix E

Endangered Bat Mitigation Plan

March 17, 2023

BEL 221265

Mr. Mike Vernooy,
NEATT Communities Inc.,
775 Main Street East,
Milton, ON L9T 3Z3

Re: Bat Mitigation Plan for Remediation Works at 150 Steeles Ave. E., Milton, Ontario

Dear Mr. Vernooy:

Beacon is pleased to provide a Mitigation Plan for soil remediation activities, pursuant to Section 23.18 of Ontario Regulation 242/08, at the property located at 150 Steeles Ave East, in the Town of Milton, Regional Municipality of Halton (“Subject Property”) (**Figure 1**). This former industrial site is currently undergoing remediation of an unregulated landfill and contaminated soil and groundwater outside of the habitat regulated under Section 10 of the *Endangered Species Act* (ESA, 2007). It is understood from the landowner that soil and groundwater quality assessments completed to date have indicated that the primary contaminants of concern (“COCs”) include petroleum hydrocarbons (“PHCs”) F1 to F4, metals (primarily hexavalent chromium (Cr6⁺) and to a lesser extent cadmium, lead, and inorganics electrical conductivity (“EC”) and sodium adsorption ratio (“SAR”).

The Subject Property is proposed for redevelopment and has been identified as an Intensification Area within the Urban Boundary on Schedule K of the Town of Milton Official Plan. It is understood that as the Subject Property is proposed to be future residential, the existing contamination constitutes a future threat to human health.

The presence of soil contamination and an unregulated landfill has been identified in habitat regulated under the ESA. Based on the results of acoustic monitoring completed in 2022 by Beacon ecologists (Beacon 2023), this woodland (“Regulated Woodland”) has been identified as habitat of Little Brown Myotis (*Myotis lucifugus*), Eastern Small-footed Myotis (*M. leibii*), Northern Myotis (*M. septentrionalis*) and Tri-colored Bat (*Perimyotis subflavus*) (“Regulated Bat Species”) listed as “Endangered” under the ESA. Preliminary soils testing have confirmed that the limits of soil contamination overlap with the woodland (**Figure 2**). For the reasons above it is understood, remediation of the soil contamination in the woodland is necessary to avoid a threat to human health, where the threat is not imminent but is likely to have serious consequences in the long term if the remediation is not carried out. As such, this activity has been registered for an exemption under subparagraph 1 of subsection 23.18 (1) of O. Reg 242/08 under the ESA.

Pursuant to Section 23.18 of O. Reg 242/08, a Notice of Activity was filed on March 8, 2023, and a Confirmation of Registration (ID: M-102-8519402123) was received (**Attachment A**). This document provides the mitigation plan per the requirements of Section 23.18 of O. Reg 242/08.

Contact

Proponent

Mike Vernooy, President
On behalf of NEATT Communities Inc.
775 Main Street East,
Milton, ON L9T 3Z3

Site Supervisor

Colin Rauscher
NEATT Communities Inc.
775 Main Street East,
Milton, ON L9T 3Z3

Description of Activity

A Comprehensive Environmental Management Study (CEMS) report (Beacon 2023) was prepared with various subconsultant experts and this following section summarizes the remediation approach which was developed through their consultation.

Given the types of soil COCs present on the Subject Property, remedial excavation is the recommended approach. The variation in contaminant types across the Subject Property requires an adaptive approach to address the different COCs present in the differing media (soil, industrial waste, etc.). Soil excavation is conducted by conventional construction equipment, such as track excavators, backhoes, scrapers, bulldozers, front-end loaders, power shovels, and large rotary augers depending on the volume and extent of contaminated material.

Remedial excavation is necessarily an adaptive process, as the full extent of contamination cannot be known until all COCs are removed. As such, remedial excavation is completed in multiple iterations, including several rounds of soil verification sampling at the anticipated limits of excavation, and additional remedial excavation, as required. In other words, as a remedial excavation expands in area, the side walls and floor of the excavation are tested. If the test indicates a side of the excavated area is contaminated, the remedial excavation proceeds in that direction. Remedial excavation continues until testing indicates the soil at the edge of the excavation meets MECP requirements.

Based on the extensive soil testing that has been completed to date, the anticipated extent of remedial excavation in the Regulated Woodland is shown on **Drawing 1003**. This extent includes both the anticipated extent of soil contamination and — as the remedial excavation is anticipated to be between 3 and 6.5 metres deep — the additional excavation to ensure safe sloping of excavation walls, as required by the *Occupational Health and Safety Act*, 1990, and regulations. There is a fairly high level of confidence that the extent of contamination is as shown on **Drawing 1003** and **Figure 2**; however, variations may exist in the soil that were not picked up due to the location of the various test pits. Additionally, test pits were not completed extensively within the Regulated Woodland (**Figure 2**) as this would have necessitated the removal of a significant number of trees. As a result, the exact extent of contamination within the wooded area will only be known once excavation begins in that area.

The proposed start date for the activity is March 20, 2023.

The proposed completion date for the activity is December 31, 2023.

A description of the stages of remediation activities within the Regulated Woodland and timeline these stages is presented in **Table 1**.

Table 1. Stages of Activity and Timeline within Regulated Habitat

Activity	Description and Rationale	Timeline
Tree and Vegetation Clearing to Limit of the Phase 3 Work Area in Drawing 1003	<p>Prior to remedial excavation in the Regulated Woodland, the existing trees that serve as roosting habitat for Regulated Bat Species will need to be cut down and removed from the Subject Property.</p> <p>Tree removal will be restricted to outside the timing windows for Regulated Bat Species activity.</p>	March 20 to March 31, 2023
Remedial Excavation up to Limit of the Phase 3 Work Area in Drawing 1003	<p>Remedial excavation as described above, necessary to avoid threat to human health.</p> <p>If confirmatory soil testing or fill evaluation indicates that the limit of contamination <u>does not extend</u> to the Estimated Remediation Area limit, the remedial excavation will cease.</p>	Following tree and vegetation clearing; April to December, 2023
If necessary, Tree Removals past previously identified limits	<p>If confirmatory soil testing or fill evaluation indicates that the limit of contamination <u>extends past</u> to an estimated limit, more remedial excavation will be required.</p> <p>Where testing indicates further soil contamination, a 2-metre-wide area of trees and vegetation will be cut down and removed from the Subject Property.</p> <p>Tree removal will be restricted to outside the timing windows for Regulated Bat Species activity.</p>	March 20 to March 31, 2023 or October 1 to December 31, 2023
If necessary, Remedial Excavation past previously identified limits	Where testing indicates further soil contamination, a 2-metre-wide area will be excavated and the excavation side wall will be retested. Remedial excavation will continue until all soil contamination is removed, as required to meet provincial standards.	Following localized tree or vegetation removal; March 20 to March 31, 2023 or October 1 to December 31, 2023
Restoration of Grades following Completion of Remediation	Following testing to confirm the successful removal of all contamination, the area of the Regulated Woodland will be restored to native, pre-landfill grades	Immediately following completion of remediation 2023
Replanting of Habitat Affected	<p>Following restoration of grades and application of topsoil, the entire area of the Regulated Woodland will be planted with native tree, shrubs, and groundcovers, as per the requirements of the Municipality. This will also restore the habitat function in the long-term for Regulated Bat Species.</p> <p>The restoration plan will be completed to the satisfaction the relevant agencies (Conservation Halton, Region of Halton, and the Town of Halton).</p>	Following completion of remediation 2023 (2024 if required, will require amendment to Notice of Activity)

Mitigation and Regulatory Requirements

The following section references the requirements of O. Reg 242/08 Section 23.18 as it relates to the proposed remediation works. Reasonable mitigation actions area also described here.

Note that subparagraphs 5 iv. through 5 vi. and subparagraph x. of Subsection 23.18(5) do not apply to these proposed works; therefore, they are not discussed below.

Mitigation Plan Preparation

A mitigation plan must be prepared prior to disturbance of the Regulated Woodland (as per Paragraph 1 of Subsection 23.18(5)). Subsection (6) provides requirements for preparation of this plan:

A mitigation plan shall be prepared by one or more persons with expertise in relation to every species that is the subject of the plan, using the best available information on steps that may help minimize or avoid adverse effects on the species, which includes consideration of information obtained from the Ministry, aboriginal traditional knowledge and community knowledge if it is reasonably available.

This plan is prepared by Beacon ecologists James Seery, Nadine Price and Lindsey Waterworth, who have expertise in relation to the Regulated Bat Species. As aboriginal traditional knowledge and community knowledge is not readily available, it has not been considered in this Mitigation Plan.

As per the requirements of Subsection 23.18 (5), each of the steps required to minimize the adverse effects of the activity, are described below. The text from the Regulation has been provided in italics.

Compliance with Mitigation Plan and Record Keeping

Paragraph 4 of Subsection 23.18(5) of O. Reg 242/08 states:

4. *Once the mitigation plan is prepared, the person¹ must,*
 - i. *ensure that the activity is carried out in accordance with the mitigation plan,*
 - ii. *retain a copy of the mitigation plan for at least five years after the activity is complete, and,*
 - iii. *provide a copy of the mitigation plan to the Ministry within 14 days of receiving a request for it.*

¹ Beacon note: The "person" is the proponent of the activity as listed in the Notice of Activity; i.e., Mr. Vernoooy

Mitigating Impacts to Regulated Bat Habitat and Individuals

Work Area Delineation

The limits of the Regulated Woodland that are not anticipated to be contaminated shall be delineated by double-row silt fencing, as specified in **Drawing 1003** to minimize the risk of damage or removal of trees outside the require work area

Prior to removal of any trees within the Regulated Woodland, the Phase 3 Work Area shall be clearly marked (e.g., using a GPS Layout System and flagged wooden stakes) to prevent tree removal personnel from removing more trees than strictly necessary.

It should be noted that Subparagraph 5 viii. of Subsection 23.18(5) requires the following; however, this is neither feasible nor conducive to mitigating adverse effects:

- vii. taking steps to exclude members of the species from the area in which the activity is being carried out or is likely to be carried out, such as installing temporary fencing to prevent members of the species from accessing the area,*

Exclusionary fencing for bats is neither feasible nor recommended, as barriers to prevent the movement of bats would be harmful to members of the species. Fencing should instead be in accordance with **Drawing 1003** in order to avoid the risk of site personnel unduly disturbing the woodland.

Timing of Activities

Paragraph 5 of Subsection 23.18(5) states timing requirements:

- 5. While carrying out the activity, the person must take reasonable steps to minimize the adverse effects of the activity on a species identified in the notice of activity form, including,*
 - i. taking steps to minimize or avoid killing, harming or harassing a member of the species and to avoid damaging or destroying its habitat, during a time of year when the species is likely to be carrying out a life process related to hibernation or reproduction, including rearing,*

Subparagraph 5 ix further provides timing requirements:

- ix. refraining from carrying out work during a period of hibernation or reproduction, including rearing, for the species or any other sensitive period for the species unless the restriction on work would result in a delay that would render the threat to human health or safety unavoidable and unacceptable in the circumstances.*

In order to minimize adverse effects to endangered bats, all tree removals shall occur outside of the active roosting period for bats (i.e., no clearing should occur between April 1 and September 30). As no hibernaculum has been identified in the Regulated Woodland during screening, the habitat is not considered sensitive outside of the active roosting period.

As such, tree removal in the Regulated Woodland as identified on **Drawing 1003** between October 1 and March 31 is considered sufficient to avoid killing, harming, or harassing members of the species or destroying habitat during a sensitive life process.

Tree removal or remedial excavation adjacent to Regulated Woodland shall be limited to daylight hours to prevent disruption during the period where bats are most actively foraging and moving.

Procedure for Bat Encounters

Bat encounters are most likely during the active season, between April and late September. Between April 1 and September 30, all personnel shall be aware of following procedure for bat encounters.

Paragraph 5 of Subsection 23.18(5) states mitigation related to encounters with species regulated under the ESA:

- ii. if the person encounters an animal that is a member of a species while carrying out the activity, ceasing from carrying out the activity in the area of the encounter and providing the animal with a reasonable amount of time to leave the area before continuing with the activity,*
- iii. if, after providing an animal with a reasonable amount of time in accordance with subparagraph ii the animal does not leave the area, taking measures to relocate the animal to a nearby location that is suitable and safe for the animal,*

Subparagraph 5 vii of Subsection 23.18(5) further states:

- vii. ensuring that the relocation of an animal or of a moss, lichen or vascular plant in accordance with subparagraph iii or v is undertaken by or in consultation with a person knowledgeable about, or having training in, the handling of members of the species,*

The contractor(s) who will be undertaking the tree clearing and remedial excavation will be provided education material on identifying the Regulated Bat Species, occurrence of regulated habitat within the woodland, mitigation measures to minimize adverse effects, and the procedure to be followed if a bat is observed. The following procedure will be communicated to site personnel and the info sheet in **Attachment B** will be kept on Site and in Site equipment:

- Attempt to maintain line of sight with the bat;
- Immediately turn off active equipment;
- If in a vehicle/excavator, disembark from the vehicle;
- Do not attempt to touch or scare the bat away;
- Walk toward where the bat was last seen and attempt to identify if the bat is still present in the work area;
- Contact the Site Supervisor (Colin Rauscher, 289-218-8507) immediately;
- Document the location of the bat encounter, note its colouration, and number of individuals;
- If possible, take a photograph of the bat;
- Provide the bat with a reasonable amount of time to leave the immediate work area;

- If the bat does not leave in a reasonable amount of time, do not move the bat unless directed by qualified persons. Call the Toronto Wildlife Centre 416-631-0662 as soon as possible (between 9 am and 6 pm) for direction and tell them that the bat has not moved in the time you provided; and
- Resume work only when the bat has vacated the work area.

Duty to Report Bat Encounters

Paragraph 6 of Subsection 23.18(5) requires that any observation of the Regulated Bat Species be reported on the Ministry website within three months of the observation:

6. *If the person or an employee or agent of the person observes a species identified in the notice of activity form in the course of carrying out the activity, the person must ensure that, within three months of the observation, the Ontario Species at Risk Observation Reporting Form available on the Ministry website is completed, detailing the species and number of individual members that were observed, the date and location of observation and any other information requested on the form.*

A link to the Observation Reporting Form is provided here: [Natural Heritage Information Centre \(NHIC\) Observation Reporting Form | EngageON \(ontario.ca\)](#)

Assessment of Impact to Regulated Bat Species and Habitats

Paragraph 5 of Subsection 23.18 (7) requires an assessment of the remediation's effects on members of the Regulated Bat Species:

5. *An assessment of the activity's likely effects on members of each species identified under paragraph 4*

It is anticipated that the remediation works will remove up to 0.63 ha of Regulated Woodland habitat. The ultimate extent of this habitat removal will be determined as the remediation works proceeds. If the extent of this habitat removal changes, this document will be updated to reflect this.

Effects on members of the Regulated Bat Species will be mitigated by implementing the measures in this plan. As it is generally understood that the activity period is April 1 to September 30, and members of the species will not be present in the Regulated Woodland during that time, it is expected that the impact of tree removal outside of this window on the Regulated Bat Species will be low.

Summary of Required Mitigation Measures

In summary, it is our opinion that the following mitigation should be implemented during soil remediation within regulated bat habitat as shown in **Figure 2**:

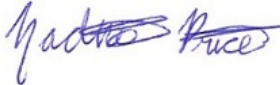
- All tree removals shall occur outside of the active roosting period for bats (i.e., no clearing should occur between April 1 and September 30);

- Tree removal or remedial excavation adjacent to Regulated Woodland shall be limited to daylight hours to prevent disruption during the period where bats are most actively foraging and moving;
- Prior to removal of any trees within the Regulated Woodland, the Phase 3 Work Area shall be clearly marked (e.g., using a GPS Layout System and flagged wooden stakes) to prevent tree removal personnel from removing more trees than strictly necessary; and
- All personnel shall follow the provided procedure for bat encounters (**Attachment B**).

We trust that the information provided is sufficient to support the proposed site remediation activities at the site.

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

Prepared by:
Beacon Environmental



Nadine Price, M.Sc.
Ecologist

Prepared by:
Beacon Environmental



James Seery, B.Sc.
Ecologist

Reviewed by:
Beacon Environmental



Lindsey Waterworth, B.Sc.
Senior Ecologist

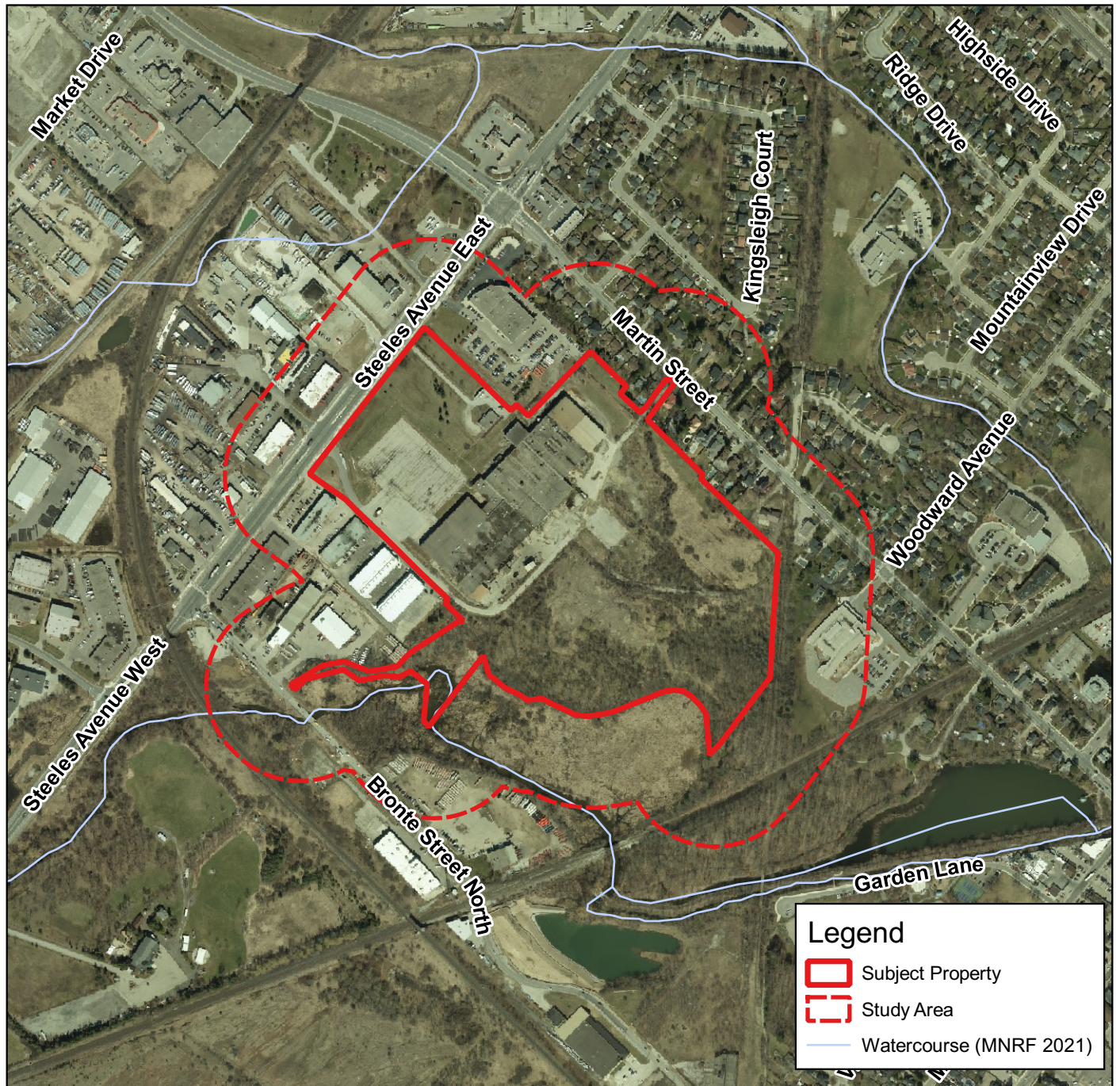
References

Beacon Environmental Limited. 2023.

150 Steeles Avenue East Comprehensive Environmental Management Study. March 2023.

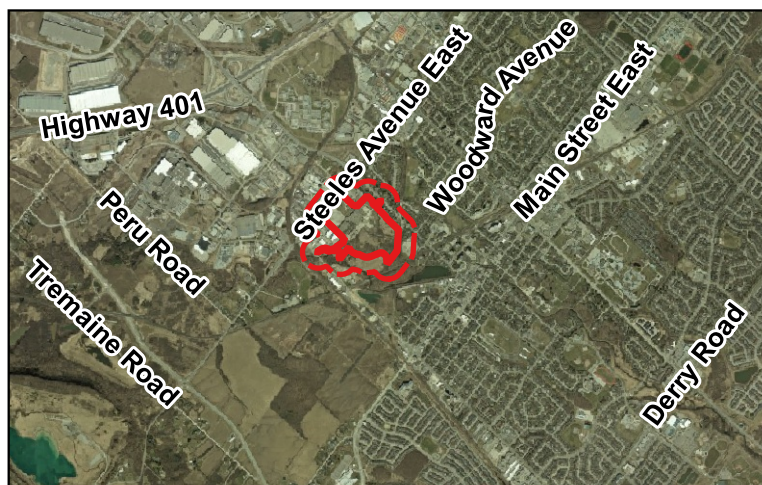
Canadian Environmental Protection Act. 2018.



“Regulations Amending the Chromium Electroplating, Chromium Anodizing and Reverse Etching Regulations.” Canada Gazette Part II, 144:4 (2018). Retrieved from the Canada Gazette website: <https://gazette.gc.ca/rp-pr/p1/2018/2018-12-15/html/reg3-eng.html>

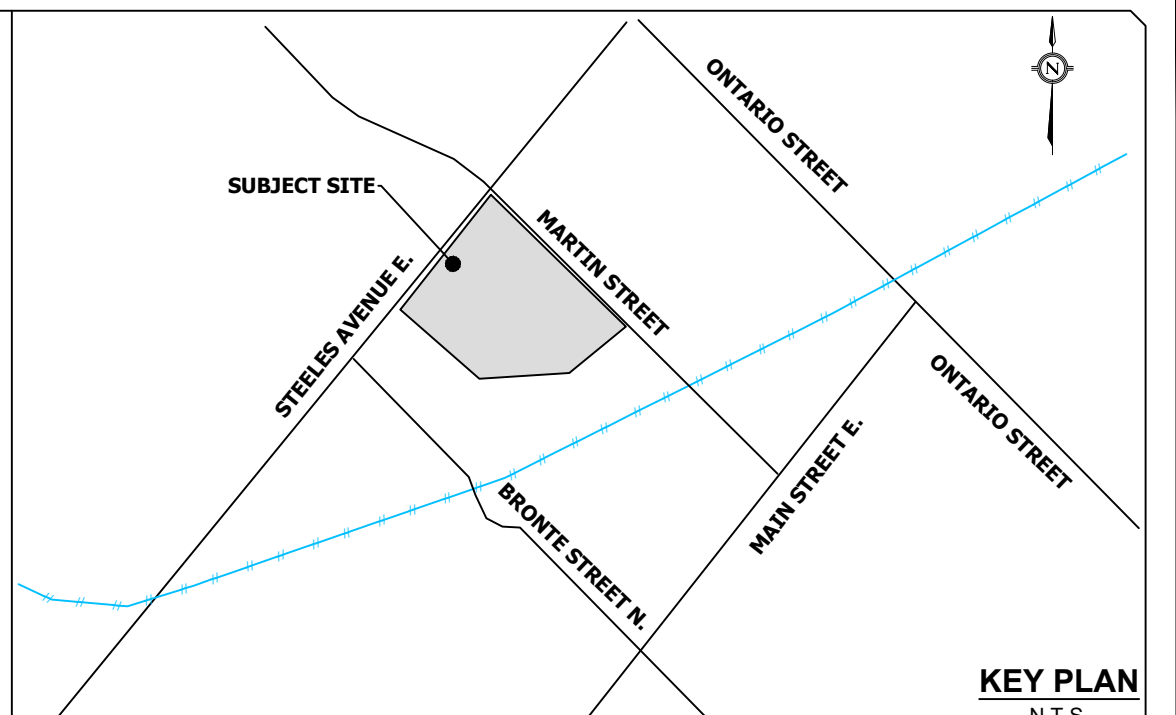


Legend

- Subject Property
- Study Area
- Watercourse (MNR 2021)



Site Location and Study Area		Figure 1
150 Steeles Avenue Milton CEMS		
		Project: 221265
Client: 150 Steeles Milton Inc.		Last Revised: March 2023
Prepared by: SZ Checked by: KU		
	1:8,000	Inset Map: 1:60,000
<small>Contains information licensed under the Open Government License— Ontario Orthoimagery Baselayer: FBS Halton Region (2021)</small>		



- LEGEND:**
- EXISTING CONTOUR AND ELEVATION
 - PROPOSED ELEVATION
 - EXISTING OVERLAND FLOW ARROW
 - PROPERTY LINE
 - PRE-REMEDIATION CH REGULATED AREA BOUNDARY
 - 10m-BUFFER FROM CH REGULATED AREA BOUNDARY
 - LIMIT OF WETLANDS (PREVIOUS TAILINGS POND) (STAKED BY CONSERVATION HALTON JUL. 16, 2021)
 - HALTON REGION OFFICIAL PLAN NHS LIMIT
 - LIMIT OF WOODLAND (STAKED BY REGION OF HALTON NOV. 22, 2021)
 - TOP OF BANK (STAKED BY CONSERVATION HALTON JUL. 16, 2021)
 - SEDIMENT CONTROL FENCE
 - DOUBLE SEDIMENT CONTROL FENCE
 - CONSTRUCTION FENCE
 - TEMPORARILY CUT-OFF SWALE
 - FILTREX SILT SOCK (OR EQUIVALENT)
 - ESC DRAINAGE BOUNDARY
 - ROCK CHECK DAM
 - PROPOSED SEDIMENT TRAP
 - EXISTING SURFACE DRAINAGE AREA CONTRIBUTION
 - PHASE 3 WORK AREA
 - ESTIMATED REMEDIATION AREA (TO BE REFINED THROUGH ENVIRONMENTAL WORK)

- NOTES:**
- REFER TO DWG. 1004 FOR ESC GENERAL NOTES AND DETAILS.
 - STANDING WATER IN PHASE 3 REMEDIATION AREAS CAN BE PUMPED TO NEAREST POND OR SEDIMENT TRAP.
- STAGING NOTES:**
1. SEDIMENT FENCE TO BE REMOVED AT PHASE 3 LIMIT AS SHOWN.
 2. SILT SOCK TO BE INSTALLED ALONG PHASE 3 LIMITS AS SHOWN.
 3. ESC MEASURES TO REMAIN IN PLACE AND BE ADEQUATELY MAINTAINED UNTIL FULL BUILD OUT OF SITE.

BENCHMARK NO. 828158:
 EXISTING ELEVATIONS ARE DERIVED FROM THE TOPOGRAPHIC SURVEY PREPARED BY WAHBA, DATED MAY 17, 2021.

NOTES:
 IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THAT THE LOCAL BENCHMARK HAS NOT BEEN ALTERED OR DISTURBED AND THAT THE RELATIVE ELEVATION AND DESCRIPTION AGREE WITH THE INFORMATION SHOWN ON THIS SKETCH.

BEFORE DIGGING, UNDERGROUND SERVICES SHOULD BE LOCATED ON SITE BY THE RESPECTIVE AGENCIES.

ELEVATION NOTE:
 ELEVATIONS SHOWN ON THIS PLAN ARE GEODETIC AND ARE DERIVED FROM GPS OBSERVATIONS.

3	3rd SUBMISSION	JULY 2022	A.M.
2	2nd SUBMISSION	JUN. 2022	A.M.
1	1st SUBMISSION	APR. 2022	A.M.
No.	REVISION	DATE	BY

150 STEELES AVE EAST MILTON MERITOR

Urbantech Consulting
 A Division of Leighton-Zec Ltd.
 3760 14th Avenue, Suite 301,
 Markham, ON L3R 3T7
 TEL 905.946.9461 • urbantech.com

EROSION PLAN (PHASE 3)

DESIGNED:	A.M.	CHECKED:	S.R.	PROJECT No.:	21-678
DRAWN:	A.M.	DATE:	JUNE 2022	SHEET No.:	
SCALE:			1:1500	DRAWING No.:	1003

TEMPORARY STABILIZATION SEED MIX

COMMON NAME	SPECIES	PERCENTAGE
CANADA WILD RYE	<i>Elymus canadensis</i>	25
ANNUAL OATS	<i>Avena sativa</i>	25
CREEPING BENT GRASS	<i>Agrostis stolonifera</i>	25
LITTLE BLUESTEM	<i>Schizachyrium scoparium</i>	20
MEADOW SEDGE	<i>Carex granularis</i>	5

NOTES:

1. APPLY SEED MIX AT A RATE OF 30 kg PER HECTARE.
2. SEEDING SHALL OVERLAP ADJACENT GROUND COVER BY 300 mm.
3. APPLY A NURSE CROP OF VIRGINIA WILD RYE (*Elymus virginicus*) AT A RATE OF 60 kg PER HECTARE.
4. WATER SOIL AFTER SEED APPLICATION.

Attachment A

**Confirmation of Registration of Notice
Form under the *Endangered Species Act,*
2007**

CONFIRMATION OF REGISTRATION

Form Name: Threats to human health and safety, not imminent (O. Reg. 242/08 s.23.18)
Date Registration Filed: 03/08/2023
Confirmation ID: M-102-8519402123
Version Number: 001
Update Date:

Dear Sir/Madam,

For your reference, your Notice Form contained the following as your contact information:

Neatt Communities Inc.

If you need to update your contact information, please sign in to your ONE-key account and update the information in "My Profile."

You have submitted a Notice Form to the Ministry of the Environment, Conservation and Parks under the following subsection of the specified regulation under the *Endangered Species Act, 2007*:

Threats to human health and safety, not imminent (O. Reg. 242/08 s.23.18)
Preventing or restoring contamination or pollution or other work to protect the quality of the earth, air or water

For activities located at:

150 Steeles AVE E, Milton, ON

Note: If the site for this registration has multiple locations, only the location identified as the primary location will be displayed here.

The species to be impacted by the registered activity are listed in Appendix A (see last page of this document). Please retain this Confirmation of Registration for your records.

It is your responsibility to:

- Ensure that your activity does not contravene the Endangered Species Act, 2007 (ESA).
- Determine whether your activity will impact a species that is listed as endangered, threatened or extirpated on the Species at Risk in Ontario (SARO) List (Ontario Regulation 230/8) and monitor the SARO List for changes that may be relevant to your activity, such as newly listed species.
- Ensure your activity satisfies the eligibility requirements for the conditional exemption for which you have registered.
- Fulfil all conditions of the conditional exemption for which you have registered.
- Monitor the applicable regulation for changes that may be relevant to your activity.

For more information:

Ontario Regulation 230/08 (SARO List): www.ontario.ca/laws/regulation/080230
Ontario Regulation 242/08 (General Regulation): www.ontario.ca/laws/regulation/080242
Ontario Regulation 830/21 (Exemptions - Barn Swallow, Bobolink, Eastern Meadowlark and Butternut):
<https://www.ontario.ca/laws/regulation/210830>
Information about ESA authorizations and regulatory requirements is available on our website at:
www.ontario.ca/page/how-get-endangered-species-act-permit-or-authorization

Additional requirements:

- You are required to show this Confirmation of Registration upon request of the Ministry.
- When documents are requested by the Ministry of the Environment, Conservation and Parks, they are due within 14 days of the request.

Technical questions about the online registry system should be directed to:

Registry and Approval Services Centre
Toll Free: 1-855-613-4256
Email: mnr.rasc@ontario.ca

Questions about this Confirmation of Registration or the conditional exemptions in regulations

under the Endangered Species Act, 2007 should be directed to:

Species at Risk Branch

Ministry of the Environment, Conservation and Parks

Email: SARregistry@ontario.ca

Learn about Ontario's species at risk at www.ontario.ca/page/species-risk-ontario

Appendix A:

Species impacted by the registered activity:

Little Brown Myotis (Little Brown Bat)

Northern Myotis (Northern Long-eared Bat)

Tri-colored bat (*Perimyotis subflavus*)

Eastern Small-footed Myotis (*Myotis leibii*)

Attachment B

Contractor Information Sheet for Endangered Bat Mitigation

Endangered Bats and Habitat protected under the *Endangered Species Act*



Photo Credit: USDA Forest Service

Little Brown Bat

- Glossy, brown fur
- 4–5 cm in length
- 22–27 cm wingspan



Photo Credit: Bat Conservation International

Northern Bat

- Long ears, medium to dark brown fur
- 7.7–9.5 cm in length
- 22.8–25.8 cm wingspan



Photo Credit: Kentucky Dept. of Fish & Wildlife

Small-footed Bat

- Fur has black roots and shiny light brown tips
- 8 cm in length
- 21–25 cm wingspan
- Foot length: 0.7–0.8 cm



Bat Conservation International

Tri-colored Bat

- Pale brown fur
- Muzzle, ears and forearms are orange-red
- 23 cm wingspan

Habitat

- Roosts during the day in trees and buildings
- Feeds at night in wetlands, forests, and forest edges
- Treed areas on Site are regulated habitat (See Woodland Limit on Drawings)

Measures to Avoid Killing, Harming or Harassing

- Clear trees and vegetation between October 1 – March 31
- Work to the fenced areas planned for remediation
- Do not cut or disturb trees/vegetation outside of the delineated work area
- Limiting work to daylight hours

If you Encounter with a Bat

1. Stop work. Do not handle or attempt to scare away!
2. Contact the Site Supervisor immediately
3. Site Supervisor to document and retain:
 - a. Location, date and time, number of individuals
 - b. Circumstances of the encounter and condition (i.e., uninjured, harmed/injured, dead)
 - c. Photograph of the individual, if possible
4. If the bat does not leave in a reasonable time, tell the Site Supervisor to immediately contact Toronto Wildlife Centre (416-631-0662).
5. Resume work only when the bat has vacated the work area.