MTE Consultants
123 St. George St., London, Ontario N6A 3A1

November 19, 2021
MTE File No.: 45752-100

11087258 Canada Inc.,
110 Yonge Street, Suite 1500,
Toronto, ON,
M5C 1T4

Dear 11087258 Canada Inc,

RE: Woodland Features Review Addendum, Site Plan 3rd Submission – 560 Winston Churchill Blvd, Oakville, ON

Introduction

MTE has been retained by the proponent (11087258 Canada Inc.) to complete a review of woodland features on a Legal Parcel located at 560 Winston Churchill Blvd, hereafter referred as the Subject Lands for the purposes of this letter [Figure 1]. It is our understanding that the only consideration for this package submission is a review of the woodland for any significance. An Environmental Impact Study (EIS) is not required. Comments received from the City of Oakville, Region of Halton, and the Credit Valley Conservation Authority (CVC), since the time of the initial report submission (MTE, 2019) have been incorporated into this letter where appropriate.

Current Policy Setting

City of Oakville Zoning By-law 2014-014

The Subject Lands are zoned as E2 sp:201, with adjacent lands to the west and south zoned O1 (Park). The watercourse and buffer area to the north of the Subject Lands is zoned N (Natural Area).

Halton Region Official Plan – Oakville Land Use (2018, Schedule G)

The land uses identified on Schedule G of the Halton Region OP – Oakville Land Use are consistent with the zoning of Business Employment (E2 sp:201). There are no identified Significant Woodlands or unevaluated woodlands on the land use schedules or in any policies associated with the site.

Halton Region Official Plan (2018)

The Subject Lands are also subject to regional review under the Halton Region Official Plan (2018). Section 277 of the Halton Region OP outlines criteria that a woodland must satisfy to be considered a *Significant Woodland* under the OP policies. These criteria, along with a description of how the woodlands on site satisfy or do not satisfy these criteria, are listed below:

> **(1) the Woodland contains forest patches over 99 years old,**

There is no evidence based on site investigations that the woodlands within the Subject Lands contain patches over 99 years old. The condition is not met.

> **(2) the patch size of the *Woodland* is 2 ha or larger if it is located in the Urban Area, or 4 ha or larger if it is located outside the Urban Area but below the *Escarpment Brow*, or 10 ha or larger if it is located outside the Urban Area but above the *Escarpment Brow*,**

The combined woodland feature area within the Subject Lands is less than 2ha and does not meet the criteria for significance.

(3) the *Woodland* has an interior core area of 4 ha or larger, measured 100m from the edge.

The woodlands within the Subject Lands do not contain an interior core area of 4ha or larger. This condition is not met.

(4) the *Woodland* is wholly or partially within 50 m of a *major creek or certain headwater creek* or within 150m of the *Escarpment Brow*.

The woodland is not within 50m of a major creek or headwater creek. This condition is not met.

Summary

Based on the Official Plan schedules and zoning maps, the wooded features within the Subject Lands are not considered Significant Woodlands under Municipal and Regional policies.

Life Science Investigations

MTE has completed life science inventories on the Subject Lands to collect data to determine if there are features of natural heritage significance that warrant re-consideration of the above land use designation. Site visits were completed on October 26, 2018, May 14, 2019, and May 29, 2019 [Appendix A].

Vegetation Communities

There is a small (0.9ha) Scot's Plantation with an associated White Cedar hedgerow in the centre of the Subject Lands [Figure 2, Community 2]. The plantation is non-native Scot's Pine, with sparse undergrowth of European Honeysuckle, Common Buckthorn (non-native), and little else. The ground layer is mostly non-native dominant as well, with Garlic Mustard and Common Burdock occurring in the openings created by the occasional dead and/or fallen pine. Communities 1a and 1b are described as Agricultural Hedgerows dominated by Eastern White Cedar.

Faunal Surveys

Bat Maternity Roost Trees

A survey to investigate the Subject Lands for candidate maternity roost trees for protected bat species was completed on April 7, 2019. One candidate tree was identified in the White Cedar hedgerows on the southeastern portion of the Subject Lands. No additional suitable trees were identified. It is our opinion that this one tree alone does not provide suitable habitat for protected bats within the overall landscape of the Subject Lands and the surrounding adjacent area. Nevertheless, a formal submission has been sent to the Ministry of Environment, Conservation, and Parks (MECP) for their review of the candidate tree in relation to the proposed site development. Mitigation and relevant best management practices were included with this submission. As long as all of the mitigation measures and best management practices are followed during all phases of development, there will be no contravention of the *Endangered Species Act* (ESA, 2007) with respect to potential bat habitat.

Development Proposal

The proposed development will result in complete removal of the 0.9ha non-native Scot's Pine plantation and the disjunct White Cedar Hedgerow [Figure 3]. All tree removals on site will be completed outside of the April 1st to October 31st timing window to avoid migratory bird nesting and bat roosting seasons. A landscape setback area from the tributary to the north of the Subject Lands has been provided as a buffer and tree compensation area [Figure 4].

A landscape plan has been prepared by MHBC (2021) for the Subject Lands. Native tree and shrub plantings have been proposed in the landscape compensation areas along the northern and southern boundaries of the Subject Lands. Aquatic planting details have also been provided for the proposed stormwater management pond. By enhancing this proposed compensation area and the SWM pond, a diverse community will be established along an existing connected natural corridor. This habitat will be far superior to what is being lost in the central portion of the Subject Lands as it will contain a higher abundance of native species.

Additional trees provided in the landscape setbacks on the remaining west and south boundary next to the parkland, will provide additional tree canopy cover to support the Oakville Urban Forest Strategic Management Plan. These areas are included in the overall landscaped naturalization area to be created.

Conclusions

An investigation of the wooded features within the Subject Lands has been completed to assess potential natural heritage significance. The Subject Lands are dominated by non-native vegetation types and is not representative of a significant natural heritage system.

Based on the evaluation of the wooded features within the Subject Lands, it is our opinion that the proposed development can proceed. MTE seeks comments from the City of Oakville and Region of Halton with respect to the contents of this letter. Formal comments can be submitted in writing to MTE of behalf of the client. Should you wish to clarify any questions or require additional information as part of the review of this document, do not hesitate to contact us.

Yours Truly,

MTE Consultants Inc.

Digitally signed by Zachary Anderson
DN: cn=Zachary Anderson, c=CA, o=MTE Consultants Inc. , ou=Natural Environment, email=zanderson@mte85.com
Date: 2021.11.19 14:39:37 -05'00'

Zachary Anderson
Biologist
519-204-6510 ext. 2245
zanderson@mte85.com

Figure 1: Site Location

(2018 Google Air Photo)

0 1,000

Scale 1:30,000

Key Plan

Print on 11X17, Landscape Orientation

0 60

Scale 1:3000

November 2021

MTE

Figure 2: Vegetation Communities

(2018 Google Air Photo)

0 1,000

Scale 1:30,000

Key Plan

Legend

1a - Agricultural Hedgerow - White Cedar Dominant [0.11ha]

1b - Agricultural Hedgerow - White Cedar Dominant [0.68ha]

2 - CUP3-3 Scot's Pine Coniferous Plantation Type [0.60ha]

2a - CUT1-Mineral Cultural Thicket Ecosite [0.17ha]

AG - Agricultural [10.54ha]

Print on 11X17, Landscape Orientation

0 50

Scale 1:2000

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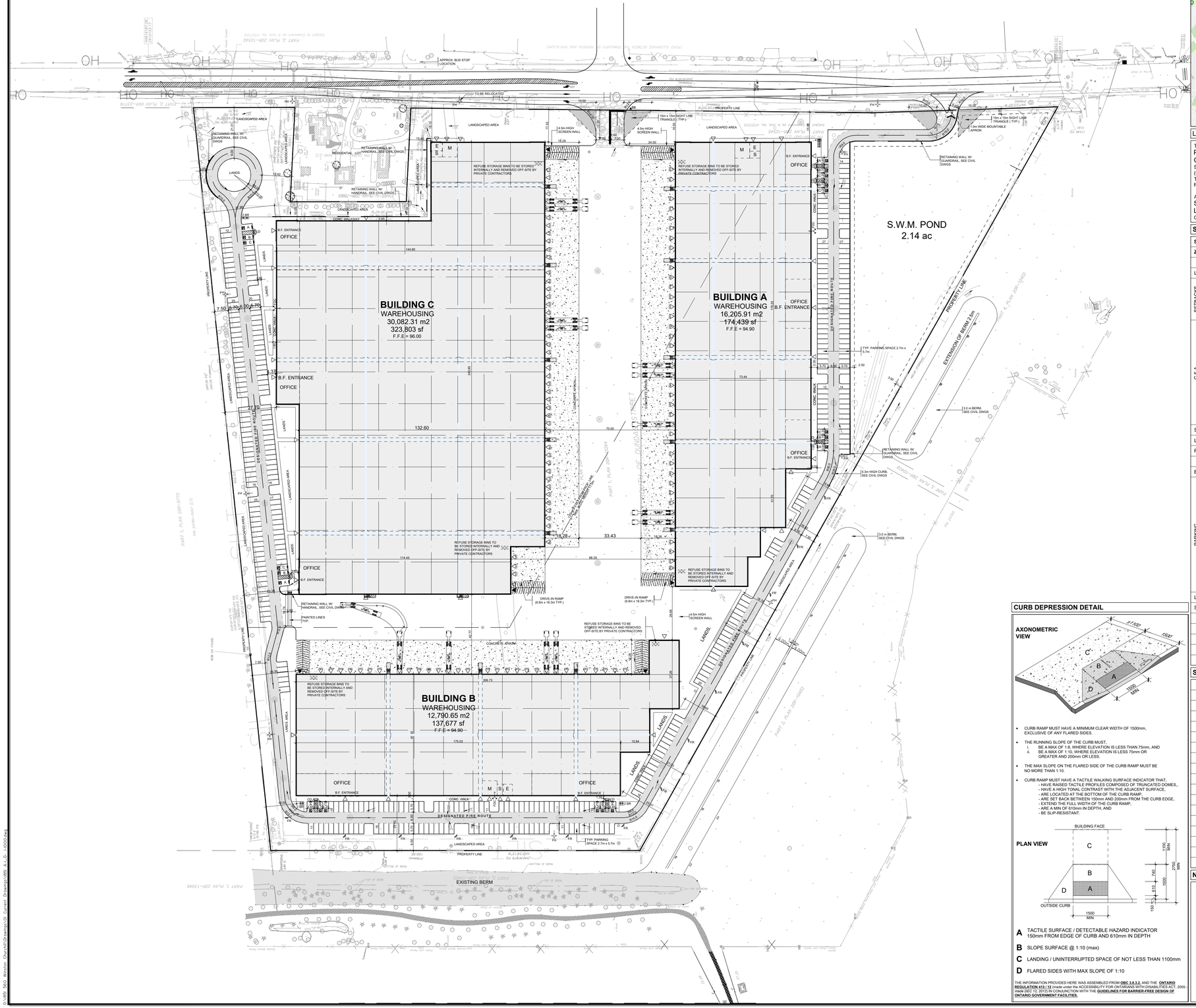
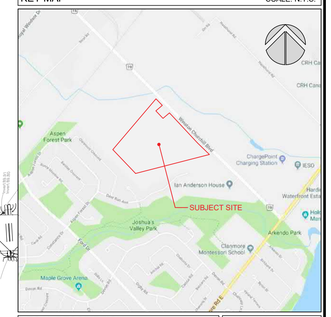
Figure 3: Development Proposal



KEY MAP

SCALE: N.T.S.



LEGAL DESCRIPTION

TOPOGRAPHIC SURVEY OF
PART OF LOT 1
CONCESSION 3
SOUTH OF DUNDAS STREET
(GEOGRAPHIC TOWNSHIP OF TRAFALGAR)
TOWN OF OAKVILLE
REGIONAL MUNICIPALITY OF HALTON

AS PREPARED BY:
SPEIGHT, VAN NOSTRAND & GIBSON LIMITED
ONTARIO LAND SURVEYORS

PROJECT NORTH

TRUE NORTH

SITE STATISTICS

SITE AREA	129,311.39 m2	or	31.95 acres
ZONING	E2 - BUSINESS EMPLOYMENT		
	REQUIRED		PROVIDED
LOT FRONTAGE	30.00 m (MIN)		460.41 m
SETBACKS: FRONT YARD (EAST) WINSTON CHURCHILL BLVD.	3.00 m		15.96 m
SETBACKS: REAR YARD (WEST)	3.00 m		29.40 m
SETBACKS: INTERIOR SIDE YARD (NORTH)	3.00 m		16.50 m
SETBACKS: INTERIOR SIDE YARD (SOUTH)	3.00 m		16.50 m
G.F.A.: BUILDING A	16,205.91 m2	or	174,439 sf
OFFICE	1,084.59 m2	or	11,674 sf
WAREHOUSE	15,002.86 m2	or	161,490 sf
MECH. / ELECTR. / STAIR	118.46 m2	or	1,275 sf
G.F.A.: BUILDING B	12,790.65 m2	or	137,677 sf
OFFICE	1,156.17 m2	or	12,445 sf
WAREHOUSE	11,516.02 m2	or	123,957 sf
MECH. / ELECTR. / STAIR	118.46 m2	or	1,275 sf
G.F.A.: BUILDING C	30,082.31 m2	or	323,803 sf
OFFICE	1,072.28 m2	or	11,542 sf
WAREHOUSE	28,894.24 m2	or	311,015 sf
MECH. / ELECTR. / STAIR	115.79 m2	or	1,246 sf
TOTAL BUILDING G.F.A.	59,078.87 m2	or	635,919 sf
SITE COVERAGE	59,078.87 m2	or	45.69%
LANDSCAPED AREA	30,778.83 m2	or	23.80%
PAVED AREA	39,453.69 m2	or	30.51%
	REQUIRED		PROVIDED
BUILDING HEIGHT (BUILDING A & B)	11.00 m (MAX)		11.00 m
PARKING: WAREHOUSING (1.0 space / 100 m2 for first 7,500 m2 of GFA; 7,500 m2 @ 1.0 space / 100 m2; 1.0 space / 200 m2 for additional GFA; 51,578.87 m2 @ 1.0 space / 200 m2)	75 spaces; 258 spaces		
PARKING: TOTAL PARKING	333 spaces		399 spaces
PARKING: ACCESSIBLE PARKING (TYPE A & B SPACES; 2 + 2% of total provided)	11 spaces		13 spaces
PARKING: ACCESSIBLE PARKING (TYPE C SPACES; 4 + 1 for each 100 over 201)	7 spaces		7 spaces
PARKING: BICYCLE SPACES (2 + 0.25 spaces / 1,000 m2 GFA (30 spaces max))	17 spaces		20 spaces
LOADING SPACES	-		111 spaces
SNOW STORAGE	TO BE REMOVED OFF- SITE		

CURB DEPRESSION DETAIL

AXONOMETRIC VIEW

- CURB RAMP MUST HAVE A MINIMUM CLEAR WIDTH OF 1500mm, EXCLUSIVE OF ANY FLARED SIDES.
- THE RUNNING SLOPE OF THE CURB MUST,
  - i. BE A MAX OF 1:8, WHERE ELEVATION IS LESS THAN 75mm, AND
  - ii. BE A MAX OF 1:10, WHERE ELEVATION IS LESS 75mm OR GREATER AND 200mm OR LESS.
- THE MAX SLOPE ON THE FLARED SIDE OF THE CURB RAMP MUST BE NO MORE THAN 1:10.
- CURB RAMP MUST HAVE A TACTILE WALKING SURFACE INDICATOR THAT,
  - HAVE RAISED TACTILE PROFILES COMPOSED OF TRUNCATED DOMES,,
  - HAVE A HIGH TONAL CONTRAST WITH THE ADJACENT SURFACE,
  - ARE LOCATED AT THE BOTTOM OF THE CURB RAMP,
  - ARE SET BACK BETWEEN 150mm AND 200mm FROM THE CURB EDGE,
  - EXTEND THE FULL WIDTH OF THE CURB RAMP,
  - ARE A MIN OF 610mm IN DEPTH, AND
  - BE SLIP-RESISTANT.

PLAN VIEW

A TACTILE SURFACE / DETECTABLE HAZARD INDICATOR 150mm FROM EDGE OF CURB AND 610mm IN DEPTH

B SLOPE SURFACE @ 1:10 (max)

C LANDING / UNINTERRUPTED SPACE OF NOT LESS THAN 1100mm

D FLARED SIDES WITH MAX SLOPE OF 1:10

THE INFORMATION PROVIDED HERE WAS ASSEMBLED FROM **OBC 3.8.3.2.** AND THE **ONTARIO REGULATION 413 / 12** (made under the ACCESSIBILITY FOR ONTARIANS WITH DISABILITIES ACT, 2005- made DEC 12, 2012) IN CONJUNCTION WITH THE **GUIDELINES FOR BARRIER-FREE DESIGN OF ONTARIO GOVERNMENT FACILITIES.**

SYMBOL LEGEND

	MAN DOOR
	LOADING DOCK DOOR
	DRIVE-IN / OVERHEAD DOOR
FH	HYDRANT + VALVE
	FIRE DEPARTMENT CONNECTION / SIAMESE
CB	CATCH BASIN
DCB	DOUBLE CATCH BASIN
SANMH	SANITARY MAN HOLE
CB/MH	CATCH BASIN / MAN HOLE
SMH	STORM MAN HOLE
HP	HYDRO POLE STANDARD / UTILITY POLE
BR	BIKE RACK (2-3 BIKES)
HT	HYDRO TRANSFORMER
A	ACCESSIBLE PARKING SPACE
	ACCESSIBLE PARKING SPACE SIGNAGE
SNW	SNOW STORAGE AREA
G	REFUSE STORAGE BINS

NOTES

No.	ISSUED	DATE
1	ISSUED FOR COORDINATION	SEPT. 17, 2020
2	RE-ISSUED FOR SPA	MAR. 1 2021

No.	REVISION	DATE

BALDASSARRA Architects Inc.

30 Great Gulf Drive, Unit 20 | Concord ON | L4K 0K7
T. 905.660.0722 | **www.baldassarra.ca**

OWNERS INFORMATION:

560 Winston Churchill Blvd.

Oakville, Ontario

SITE PLAN

DATE:	DRAWN BY:	CHECKED:	SCALE:
AUG. 2020	DM/LY		1:1000

PROJECT No. 18-51

DRAWING No. A-1.0

S:\18-51 560 Winston Churchill\Drawings\0 Current Drawings\18-51_1000.dwg

Figure 4: Development Proposal Overlay

(2018 Google Air Photo)

0 1,000

Scale 1:30,000

Key Plan

Legend

1a - Agricultural Hedgerow - White Cedar Dominant [0.11ha]

1b - Agricultural Hedgerow - White Cedar Dominant [0.68ha]

2 - CUP3-3 Scot's Pine Coniferous Plantation Type [0.60ha]

2a - CUT1-Mineral Cultural Thicket Ecosite [0.17ha]

AG - Agricultural [10.54ha]

Print on 11X17, Landscape Orientation

0 60

Scale 1:3000

November 2021

MTE

Appendix A

Woodland Feature Review Letter – Regional Comments Addressed

MTE Consultants
123 St. George St., London, Ontario N6A 3A1

November 19, 2021
MTE File No.: 45752-100

Oz Kemal
442 Brant Street, Suite 204
Burlington, Ontario, L7R 2G4
okemal@mhbcplan.com

Dear Oz,

RE: 560 Winston Churchill Boulevard – Region of Halton Environmental Planning Comments

Regional staff had concerns with the original Woodland Features Review submission relating to Section 139.12 of the Halton Region Official Plan (OP) as to whether Key Features were present in the woodland within the Subject Lands. A Woodland Features Review Addendum was prepared on March 5, 2021 and submitted to regional staff for review. With this addendum, the region is satisfied that the woodlands on site do not meet the criteria for a Significant Woodlands in accordance with policies of the OP as outlined in the addendum report.

Regional staff did have additional comments on Figure 2 that was included with the Woodland Feature Review Addendum report and requested that this figure be revised. A meeting was held between MTE and regional staff on September 15th, 2021 to clarify the changes required for Figure 2. The primary concern with Figure 2 was that the figure shows open and/or attached polygons which is considered unsatisfactory to the region. Additional aesthetic changes were requested by the region in this meeting and have been addressed. An itemized summary of the completed changes to Figure 2 is provided below.

1. The white Subject Lands boundary of Figure 2 is now a dashed line to show the completed and attached polygon boundaries. These polygons were always closed during previous submissions but were not visible behind this white line. Regional staff agreed with this change.
2. The green lines used for vegetation community boundaries was brightened and bolded.
3. Community 2 was re-shaped to account for only the woodland feature. The area of Community 2 was updated accordingly.
4. A new Community 2a was created as an inclusion to Community 2. Community 2a is not a woodland. An area has been provided for this community as well.

It is our opinion that the changes to Figure 2 satisfy the remaining Woodland Features Review Addendum report comments from regional staff. Updated figures from the addendum report will be circulated to regional staff in the 3rd site plan submission application along with this memo.

Yours Truly,
MTE Consultants Inc.

Digitally signed by Zachary Anderson
DN: cn=Zachary Anderson, c=CA, o=MTE Consultants Inc. , ou=Natural Environment, email=zanderson@mte85.com
Date: 2021.11.19 14:40:26 -05'00'

Zachary Anderson
Biologist
519-204-6510 ext. 2245
zanderson@mte85.com

Appendix B

General Field Sheets

GENERAL SITE INFORMATION FIELD SHEET

Project: Blackwood - Winston Churchill
Date: Oct. 26, 2018 Project Manager:
Collector(s): WH Visit #: 1
Time started: 2:00 Time finished: 4:13 Combined collectors' hours: 2.25
☐ NHIC List ☐ MNR EO's ☐ none ☐ not provided to collector

WEATHER CONDITIONS				
Temp.	Wind:	3	Cloud Cover (%)	Precipitation
8	Direction:	S	100	Today: no Yesterday: no

WIND SCALE	
0	Calm
1	Smoke Drifts
2	Wind Felt on Face
3	Leaves in constant motion
4	Wind raises dust and paper
5	Small trees sway
6	Large branches sway
7	Lots of resistance when walking into
8	Limbs breaking off trees

DATA FOCUS					
☐	Birds 1__ 2__ Mig__	☒	ELC's	☐	Dripline/Tree Survey
☐	Mammals	☒	Floral V__ S__ A☒	☐	Aquatic - Physical
☐	Amphibians 1_ 2_ 3_	☐	Wetland	☐	Aquatic - Biological
☐	Reptiles	☐	Butternut (BHA)	☐	Faunal Habitat
☐	Inverterbrates	☐	other SAR	☐	Other - see notes

FEATURES (with GPS co-ordinates where applicable)	Mapped	Follow-up Req'd		
	UTM	Yes	No	Who
Man-made Structures: ☐ None observed				
Yes No				
☐ ☒ Barns/Footings/Wells/other(list)				
☐ ☒ Rock Piles				
☐ ☒ Garbage				
Natural Vegetation: ☐ None observed				
☐ ☒ Fallen Logs outside woods (#'s)				
☐ ☒ Brush Piles				
☐ ☒ Snags (raptor perch)				
☒ ☐ Tree Cavities (nesting)				
☐ ☒ Sentinel Trees				
☐ ☒ Butternut Identified				
☐ ☒ Mast Trees (6E) ☐ Berry Shrubs (6E)				
Wildlife Features: ☐ None observed				
☐ ☒ Waterfowl nesting (large #'s, # of species)				
☐ ☒ Exposed Banks (nesting swallows)				
☐ ☒ Stick Nests				
☐ ☒ Animal Burrows (>10cm)				
☐ ☒ Heronry				
☐ ☒ Crayfish mounds				
☐ ☒ Sand/gravel on site				
☐ ☒ Marsh/open country/shrub				
☐ ☒ Winter Deer yards				
☐ ☒ Corridor from pond to woods (ampibian movement)				
☐ ☒ Bat corridor (shorelines, escarpments)				
☐ ☒ Bat hibernacula (caves, mines, crevices, etc.)				
Aquatic Features:				
☐ ☒ Perm. pond in woodland ☐ emergents/submergents/logs ☐ temp.				
☐ ☒ Perm. pond in open ☐ emergents/submergents/logs ☐ temp.				
☐ ☒ Water in woodland ☐ pools ☐ flowing ☐ dry				
☐ ☒ Waterways flowing dry pools				
☐ natural stream ☐ ☐ ☐				
☐ swale ☐ ☐ ☐ ☐ None observed				
☐ open drain ☐ ☐ ☐				
Seeps/Springs ☐ ☐ ☐				

Incidental Observations/Notes:

- standing water 15cm deep near north corner of site
- young planted trees in open area south of site
- some nice oak along south boundary to consider for preservation
- mostly hedgerows with no significant collections of native species of plants.

Graphic ☐ Attached or Name N:\Templates\Other Templates\Field Sheets\BioLogic_General Field Sheet Checked by Project Manager ☐ Date:

GENERAL SITE INFORMATION FIELD SHEET

Project: 45752 Winston Churchill
Date: May 14, 2019 Project Manager:
Collector(s): WH Visit #: 2
Time started: 19:30 Time finished: 20:15 Combined collectors' hours: 1.75
☒ NHIC List ☒ MNR EO's ☐ none ☐ not provided to collector

WEATHER CONDITIONS				
Temp.	Wind:	2	Cloud Cover (%)	Precipitation
14°C	Direction:	S	30	Today: no Yesterday: no

WIND SCALE	
0	Calm
1	Smoke Drifts
2	Wind Felt on Face
3	Leaves in constant motion
4	Wind raises dust and paper
5	Small trees sway
6	Large branches sway
7	Lots of resistance when walking into
8	Limbs breaking off trees

DATA FOCUS

☒	Birds 1__ 2__ Mig☒	☒	ELC's	☐	Dripline/Tree Survey
☐	Mammals	☒	Floral W☒ S__ A__	☐	Aquatic - Physical
☒	Amphibians 1_ 2☒ 3_	☐	Wetland	☐	Aquatic - Biological
☐	Reptiles	☐	Butternut (BHA)	☐	Faunal Habitat
☐	Inverterbrates	☐	other SAR	☐	Other - see notes

FEATURES (with GPS co-ordinates where applicable)	Mapped	Follow-up Req'd		
	UTM	Yes	No	Who
Man-made Structures: ☐ None observed				
Yes No				
☐ ☒ Barns/Footings/Wells/other(list)				
☐ ☒ Rock Piles				
☐ ☒ Garbage				
Natural Vegetation: ☐ None observed				
☐ ☒ Fallen Logs outside woods (#'s)				
☐ ☒ Brush Piles				
☐ ☒ Snags (raptor perch)				
☒ ☐ Tree Cavities (nesting)				
☐ ☒ Sentinel Trees				
☐ ☒ Butternut Identified				
☐ ☒ Mast Trees (6E) ☐ Berry Shrubs (6E)				
Wildlife Features: ☐ None observed				
☐ ☒ Waterfowl nesting (large #'s, # of species)				
☐ ☒ Exposed Banks (nesting swallows)				
☐ ☒ Stick Nests				
☐ ☒ Animal Burrows (>10cm)				
☐ ☒ Heronry				
☐ ☒ Crayfish mounds				
☐ ☒ Sand/gravel on site				
☐ ☒ Marsh/open country/shrub				
☐ ☒ Winter Deer yards				
☐ ☒ Corridor from pond to woods (ampibian movement)				
☐ ☒ Bat corridor (shorelines, escarpments)				
☐ ☒ Bat hibernacula (caves, mines, crevices, etc.)				
Aquatic Features:				
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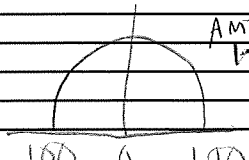
☐ ☒ Water in woodland ☐ pools ☐ flowing ☐ dry				
☐ ☒ Waterways flowing dry pools				
☐ natural stream ☐ ☐ ☐				
☐ swale ☐ ☐ ☐ ☐ None observed				
☐ open drain ☐ ☐ ☐				
☐ Seeps/Springs ☐ ☐ ☐				

Incidental Observations/Notes:

- WOTH in community 2. likely a migrant. Habitat is not ideal.

WH 21:05

AMTO 1-1



Graphic ☐ Attached or Name N:\Templates\Other Templates\Field Sheets\BioLogic_General Field Sheet Checked by Project Manager ☐ Date:

GENERAL SITE INFORMATION FIELD SHEET

Project: 45752 - Winston Churchill
Date: May 29, 2019 Project Manager: _____
Collector(s): WH Visit #: 3
Time started: 9:00 Time finished: 10:29 Combined collectors' hours: 1.5
☒ NHIC List ☒ MNR EO's ☐ none ☐ not provided to collector

WEATHER CONDITIONS				
Temp.	Wind:	0	Cloud Cover (%)	Precipitation
12	Direction:	—	100	Today: drizzle Yesterday: no

WIND SCALE	
0	Calm
1	Smoke Drifts
2	Wind Felt on Face
3	Leaves in constant motion
4	Wind raises dust and paper
5	Small trees sway
6	Large branches sway
7	Lots of resistance when walking into
8	Limbs breaking off trees

DATA FOCUS

☒	Birds 1☒ 2__ Mig__	☐	ELC's	☐	Dripline/Tree Survey
☐	Mammals	☐	Floral V__ S__ A_	☐	Aquatic - Physical
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☐ natural stream ☐ ☐ ☐				
☐ swale ☐ ☐ ☐ ☐ None observed				
☐ open drain ☐ ☐ ☐				
Seeps/Springs ☐ ☐ ☐				
Incidental Observations/Notes:				

Graphic ☐ Attached or Name N:\Templates\Other Templates\Field Sheets\BioLogic_General Field Sheet Checked by Project Manager ☐ Date: _____

Appendix C

Ecological Land Classification – Community 2

ELC
COMMUNITY DESCRIPTION & CLASSIFICATION

SITE: W. Churchill		POLYGON: 2	
SURVEYOR(S): WH	DATE:	TIME: start	
		finish	
UTMZ:	UTME:	UTMN:	

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☑ TERRESTRIAL	☐ ORGANIC	☐ LACUSTRINE	☐ NATURAL	☐ PLANKTON	☐ LAKE
☐ WETLAND	☑ MINERAL SOIL	☐ RIVERINE	☑ CULTURAL	☐ SUBMERGED	☐ POND
☐ AQUATIC	☐ PARENT MIN.	☐ BOTTOMLAND		☐ FLOATING-LVD.	☐ RIVER
	☐ ACIDIC BEDRK.	☐ TERRACE		☐ GRAMINOID	☐ STREAM
	☐ BASIC BEDRK.	☐ VALLEY SLOPE		☐ FORB	☐ MARSH
	☐ CARB. BEDRK.	☑ TABLELAND		☐ LICHEN	☐ SWAMP
		☐ ROLL. UPLAND		☐ BRYOPHYTE	☐ FEN
		☐ CLIFF		☐ DECIDUOUS	☐ BOG
		☐ TALUS		☑ CONIFEROUS	☐ BARREN
		☐ CREVICE / CAVE		☐ MIXED	☐ MEADOW
		☐ ALVAR			☐ PRAIRIE
		☐ ROCKLAND			☐ THICKET
		☐ BEACH / BAR			☐ SAVANNAH
		☐ SAND DUNE			☐ WOODLAND
		☐ BLUFF			☐ FOREST
					☑ PLANTATION

SITE	COVER
☐ OPEN WATER	☐ OPEN
☐ SHALLOW WATER	☐ SHRUB
☑ SURFICIAL DEP.	☑ TREED
☐ BEDROCK	

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY	2	4	PINSYL >> ULM pumi
2	SUB-CANOPY	2	3	ULM pumi
3	UNDERSTOREY	4	3	RHAcath > ULM pumi > LONtata
4	GRD. LAYER			

HT CODES: 1 = >25 m 2 = 10<HT 25 m 3 = 2<HT 10 m 4 = 1<HT 2 m 5 = 0.5<HT 1 m 6 = 0.2<HT 0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR 10% 2= 10 < CVR 25% 3= 25 < CVR 60% 4= CVR > 60%

STAND COMPOSITION:	BA:

		< 10		10 - 24		25 - 50		> 50
SIZE CLASS ANALYSIS:								
STANDING SNAGS:								
DEADFALL / LOGS:								

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER		YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE:	DEPTH TO MOTTLES / GLEY	g =	G=
MOISTURE:	DEPTH OF ORGANICS:		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK:		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	CULTURAL	CU
COMMUNITY SERIES:	PLANTATION	CUP
ECOSITE:	CONIFEROUS	CUP 3
VEGETATION TYPE:	SCOT'S PINE CONIFEROUS PLANTATION	CUP 3-3
INCLUSION		
COMPLEX		

Notes:

ELC
MANAGEMENT / DISTURBANCE

SITE: W. Churchill
POLYGON: 2
DATE:
SURVEYOR(S): WH

DISTURBANCE EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	~~15 - 30 YRS~~	5 - 15 YRS	0 - 5 YEARS	1
INTENSITY OF LOGGING	~~NONE~~	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	~~NONE~~	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	~~SMALL~~	INTERMEDIATE	LARGE	2
EXTENT OF GAPS	NONE	LOCAL	~~WIDESPREAD~~	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	~~DOMINANT~~	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	~~EXTENSIVE~~	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	~~EXTENSIVE~~	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	~~HEAVY~~	3
EXTENT OF DISPLACEMENT	NONE	~~LOCAL~~	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	0
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	~~LIGHT~~	MODERATE	HEAVY	2
EXTENT OF DISEASE / DEATH	NONE	LOCAL	~~WIDESPREAD~~	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	~~LIGHT~~	MODERATE	HEAVY	2
EXTENT OF WIND THROW	NONE	LOCAL	~~WIDESPREAD~~	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	~~MODERATE~~	HEAVY	4
EXTENT OF BROWSE	NONE	LOCAL	~~WIDESPREAD~~	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

Appendix D

Plant Inventory- Community 2

Floral Inventory									
Scientific Name	**Common Name**	**CW**	**GRank**	**COSEWIC**	**Nrank**	**SARO**	**SRank**	**Type**	**Invasive**
Alliaria petiolata	Garlic Mustard	0.0	GNR		NNA		SE5	FO	Y
Arctium minus	Common Burdock	3.0	GNR		NNA		SE5	FO	
Dipsacus fullonum	Common Teasel	3.0	GNR		NNA		SE5	FO	Y
Equisetum arvense	Field Horsetail	0.0	G5		N5		S5	FE	
Fraxinus americana	White Ash	3.0	G5		N5		S4	TR	
Lonicera tatarica	Tartarian Honeysuckle	3.0	GNR		NNA		SE5	SH	Y
Pinus sylvestris	Scots Pine	3.0	GNR		NNA		SE5	TR	Y
Poa pratensis	Kentucky Bluegrass	3.0	G5		N5		S5	GR	
Populus deltoides	Eastern Cottonwood	0.0	G5		N5		S5	TR	
Rhamnus cathartica	Common Buckthorn	0.0	GNR		NNA		SE5	SH	Y
Tanacetum vulgare	Common Tansy	5.0	GNR		NNA		SE5	FO	
Thuja occidentalis	Eastern White Cedar	-3.0	G5		N5		S5	TR	
Ulmus pumila	Siberian Elm	3.0	GNR		NNA		SE3	TR	Y

Appendix E

Amphibian Breeding Data

AMPHIBIAN MONITORING FIELD SHEET

Project: Blackwood Winston Churchill
Date: April 7, 2019 Project Manager: LM
Collector(s): ZA Visit #: 1

Start: 20:20

WEATHER CONDITIONS								WIND SCALE
Temp.	Wind: 3		Cloud Cover (%)	Precipitation				0 Calm
9°C	Direction: SW		100%	☒ None/Dry	☒ Drizzle			1 Smoke Drifts
				☐ Damp/Fog	☐ Rain			2 Wind Felt on Face
CALL LEVEL CODES								3 Leaves in constant motion
Code 1: Calls not simultaneous, number of individuals can be accurately counted								4 Wind raises dust and paper
Code 2: Some calls simultaneous, number of individuals can be reliably estimated								
Code 3: Full chorus, calls continuous and overlapping, number of individuals cannot be reliably estimated								

Station: A

Species	In*	Out**
AMTO		7
BCFR		7
BULL		
CHFR		1
CGTR		
FOTO		
GRTR	1	
GRFR		
MIFR	1	
NLFR		
PIFR	1	
SPPE		
WOFR	2	

* Check if species is calling from inside 100-metre station area.
** Check if species is calling from outside 100-metre station area.

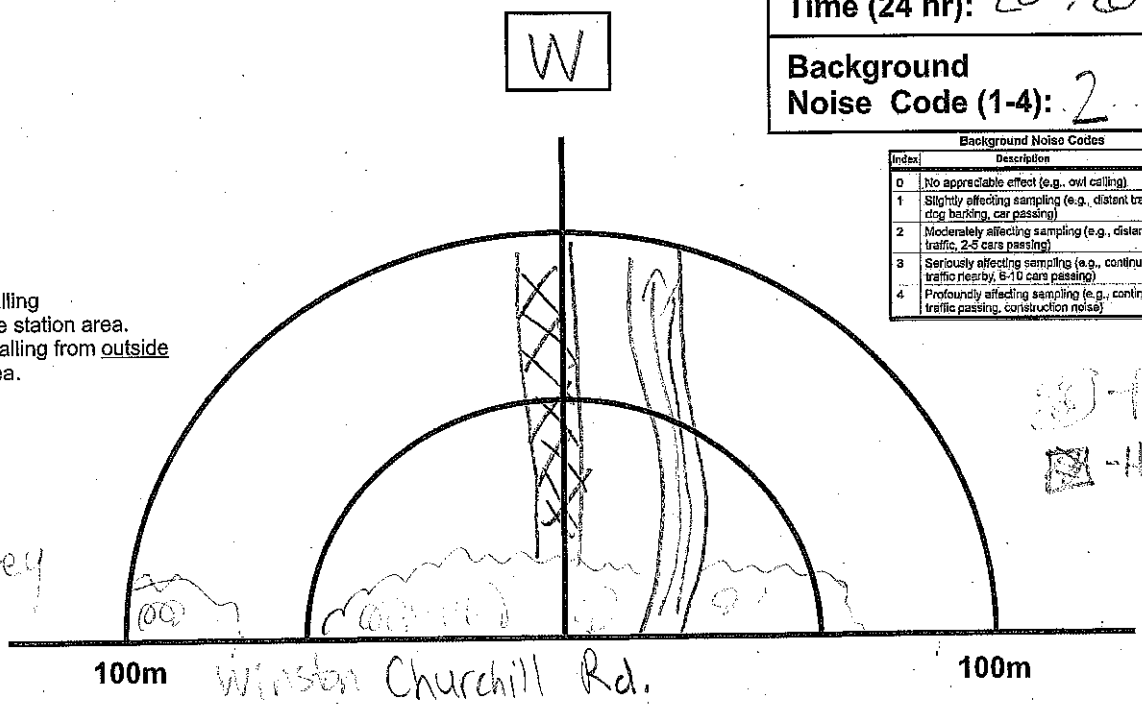
Started to light drizzle @ end of survey

Station Start Time (24 hr): 20:20

Background Noise Code (1-4): 2

Background Noise Codes

Index	Description
0	No appreciable effect (e.g., owl calling)
1	Slightly affecting sampling (e.g., distant traffic, dog barking, car passing)
2	Moderately affecting sampling (e.g., distant traffic, 2-5 cars passing)
3	Seriously affecting sampling (e.g., continuous traffic nearby, 6-10 cars passing)
4	Profoundly affecting sampling (e.g., continuous traffic passing, construction noise)



☒ - Pheag
☒ - Hodgeon

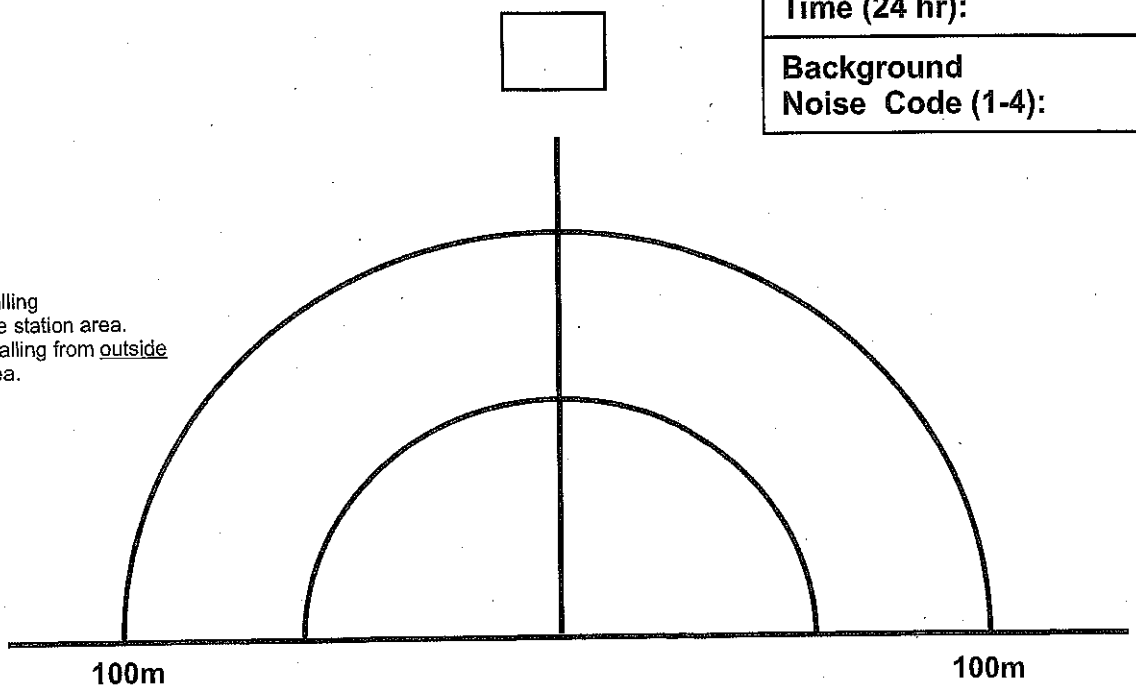
Station:

Species	In*	Out**
AMTO		
BCFR		
BULL		
CHFR		
CGTR		
FOTO		
GRTR		
GRFR		
MIFR		
NLFR		
PIFR		
SPPE		
WOFR		

* Check if species is calling from inside 100-metre station area.
** Check if species is calling from outside 100-metre station area.

Station Start Time (24 hr):

Background Noise Code (1-4):



AMPHIBIAN MONITORING FIELD SHEET

Project: 45752
Date: May 14, 2019
Collector(s): WN
Project Manager: LM
Visit #: 2

WEATHER CONDITIONS					
Temp.	Wind:	2	Cloud Cover (%)	Precipitation	
14	Direction:	S	30	☒ None/Dry ☐ Drizzle ☐ Damp/Fog ☐ Rain	

	WIND SCALE
0	Calm
1	Smoke Drifts
2	Wind Felt on Face
3	Leaves in constant motion
4	Wind raises dust and paper

CALL LEVEL CODES

Code 1: Calls not simultaneous, number of individuals can be accurately counted
Code 2: Some calls simultaneous, number of individuals can be reliably estimated
Code 3: Full chorus, calls continuous and overlapping, number of individuals cannot be reliably estimated

Reference Site: ☒ No ☐ Yes UTM

Station: A

Species	In*	Out**
AMTO		1
BCFR		
BULL		
CHFR		
CGTR		
FOTO		
GRTR		
GRFR		
MIFR		
NLFR		
PIFR		
SPPE		
WOFR		

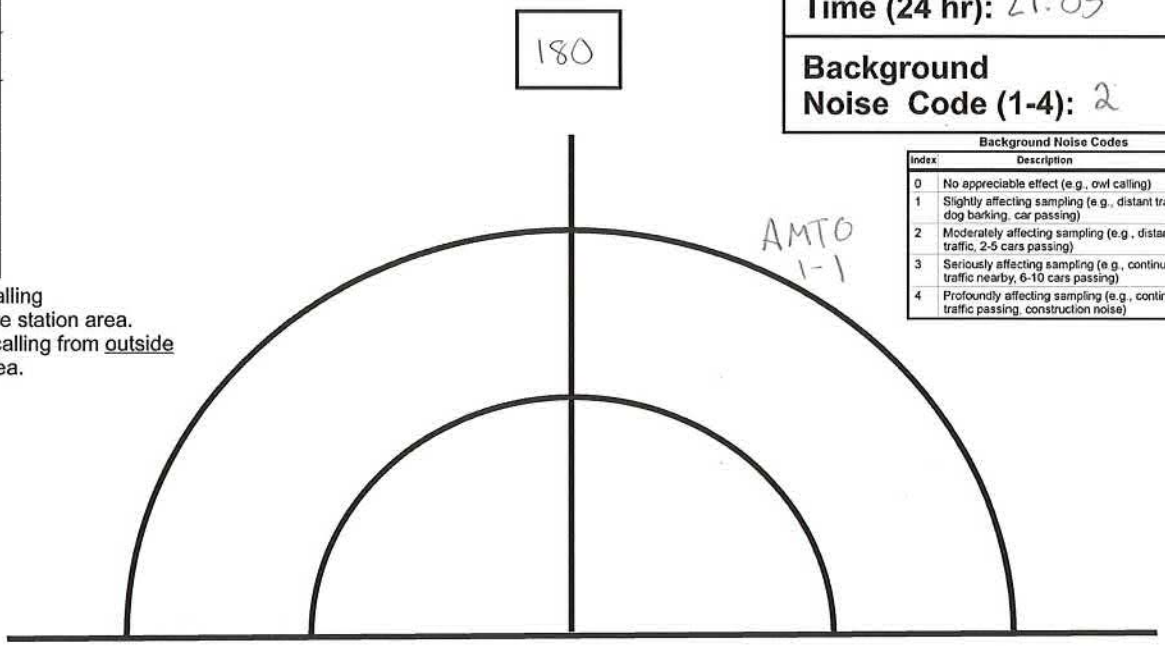
* Check if species is calling from inside 100-metre station area.
** Check if species is calling from outside 100-metre station area.

Station Start Time (24 hr): 21:05

Background Noise Code (1-4): 2

Background Noise Codes

Index	Description
0	No appreciable effect (e.g., owl calling)
1	Slightly affecting sampling (e.g., distant traffic, dog barking, car passing)
2	Moderately affecting sampling (e.g., distant traffic, 2-5 cars passing)
3	Seriously affecting sampling (e.g., continuous traffic nearby, 6-10 cars passing)
4	Profoundly affecting sampling (e.g., continuous traffic passing, construction noise)



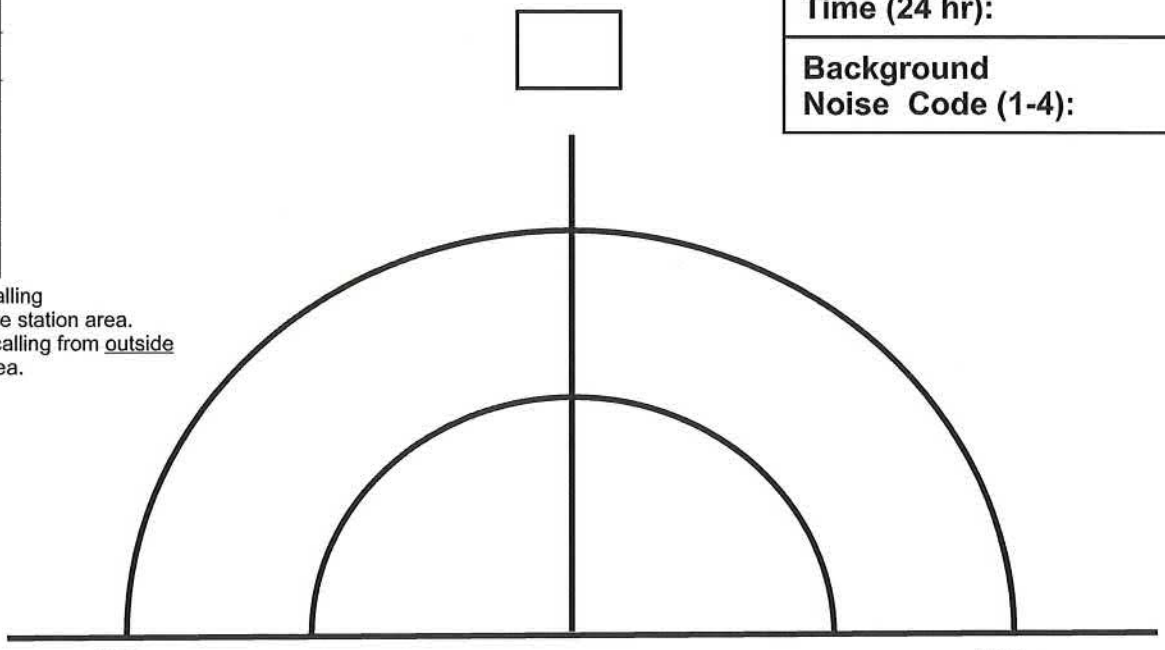
Station:

Species	In*	Out**
AMTO		
BCFR		
BULL		
CHFR		
CGTR		
FOTO		
GRTR		
GRFR		
MIFR		
NLFR		
PIFR		
SPPE		
WOFR		

* Check if species is calling from inside 100-metre station area.
** Check if species is calling from outside 100-metre station area.

Station Start Time (24 hr):

Background Noise Code (1-4):



AMPHIBIAN MONITORING FIELD SHEET

Project: Blackwood-Winston Churchill
Date: June 8, 2019 Project Manager: LM
Collector(s): ZA Visit #: 3

WEATHER CONDITIONS					
Temp.	Wind:		Cloud Cover (%)	Precipitation	
18C	Direction: SW		5-10	☒ None/Dry ☐ Drizzle ☐ Damp/Fog ☐ Rain	

	WIND SCALE
0	Calm
1	Smoke Drifts
2	Wind Felt on Face
3	Leaves in constant motion
4	Wind raises dust and paper

CALL LEVEL CODES

Code 1: Calls not simultaneous, number of individuals can be accurately counted
Code 2: Some calls simultaneous, number of individuals can be reliably estimated
Code 3: Full chorus, calls continuous and overlapping, number of individuals cannot be reliably estimated

Reference Site: ☒ No ☐ Yes UTM frogs heard outside Station Area.

Station: A

Species	In*	Out**
AMTO		
BCFR		
BULL		
CHFR		
CGTR		
FOTO		
GRTR		
GRFR		✓
MIFR		
NLFR		
PIFR		
SPPE		
WOFR		

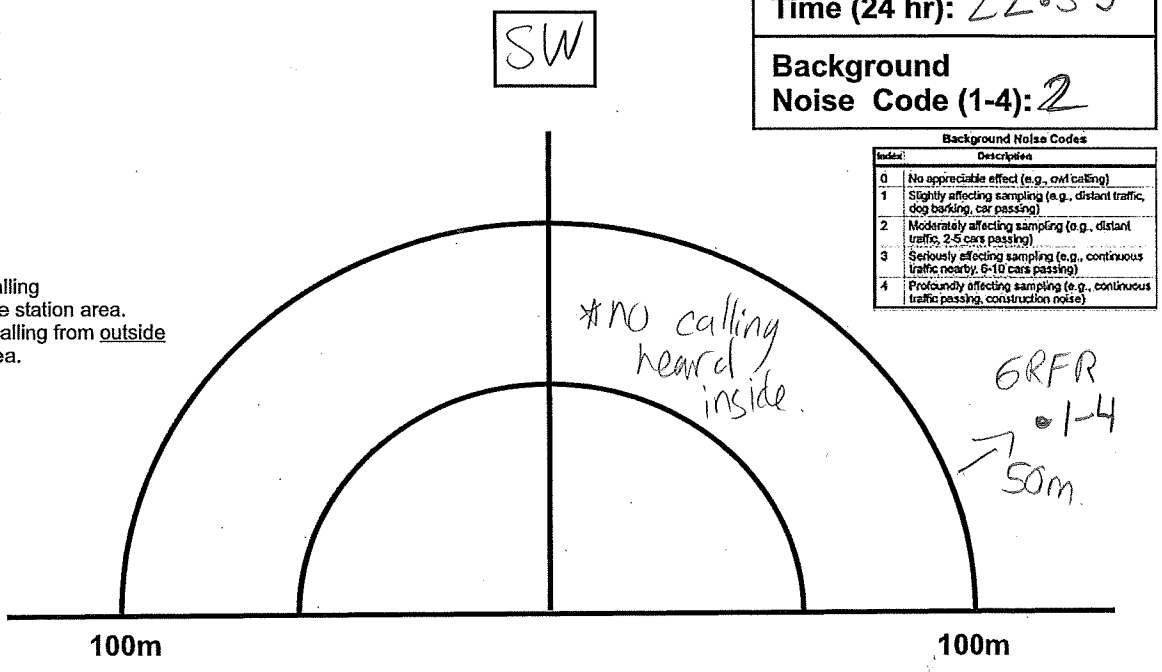
* Check if species is calling from inside 100-metre station area.
** Check if species is calling from outside 100-metre station area.

Station Start Time (24 hr): 22:55

Background Noise Code (1-4): 2

Background Noise Codes

Index	Description
0	No appreciable effect (e.g., owl calling)
1	Slightly affecting sampling (e.g., distant traffic, dog barking, car passing)
2	Moderately affecting sampling (e.g., distant traffic, 2-5 cars passing)
3	Seriously affecting sampling (e.g., continuous traffic nearby, 6-10 cars passing)
4	Profoundly affecting sampling (e.g., continuous traffic passing, construction noise)



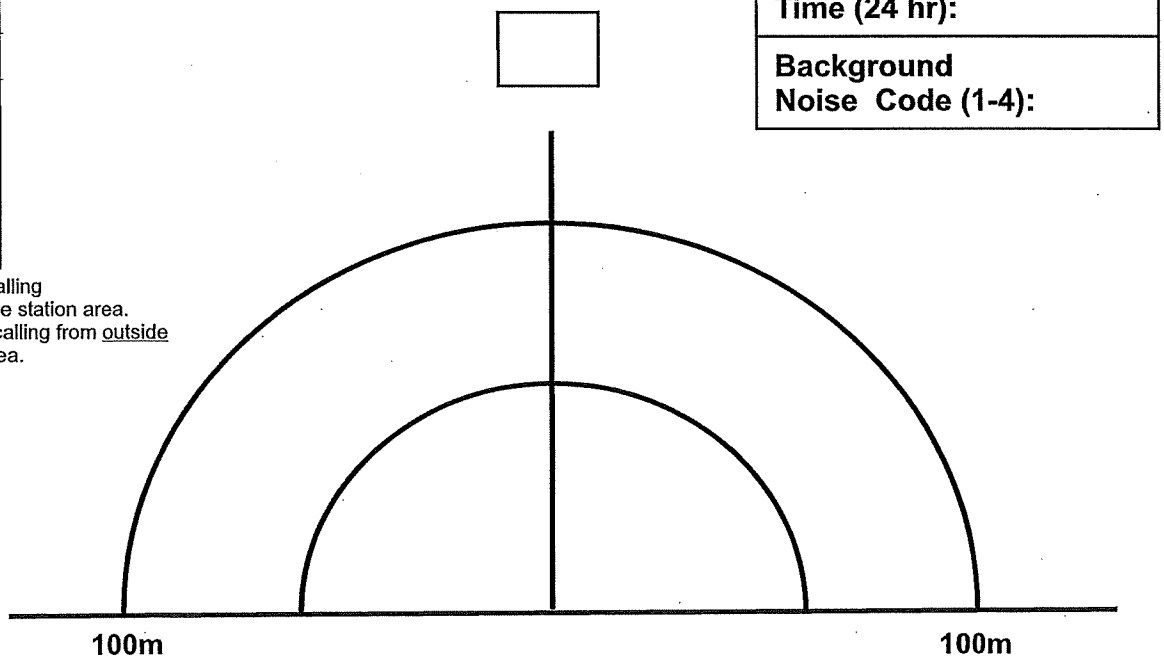
Station:

Species	In*	Out**
AMTO		
BCFR		
BULL		
CHFR		
CGTR		
FOTO		
GRTR		
GRFR		
MIFR		
NLFR		
PIFR		
SPPE		
WOFR		

* Check if species is calling from inside 100-metre station area.
** Check if species is calling from outside 100-metre station area.

Station Start Time (24 hr):

Background Noise Code (1-4):



Appendix F

Bat Maternity Roost Survey Data

Appendix B – Suitable Maternity Roost Trees for Little Brown Myotis/Northern Myotis

Include all live and dead standing trees ≥10cm dbh with loose or naturally exfoliating bark, cavities, hollows or cracks.

Project Name: Blackwood Winston Churchill

Survey Date(s): April 7, 2019

Site Name: Blackwood.

Observers(s): ZA

ELC Ecosite: 1A

Snag Density (snags/ha): —

Tree #	Tree Species ID	dbh (cm)	Height Class[2]	Snag attributes (check all that apply)	Easting	Northing	Notes
1	Fraxinus sp.	~25	2	☐ cavity[3] ☒ loose bark ☒ crack ☐ knot hole ☐ other snag within 10m? ☒ Decay Class 1-3?[4] (2)	610373	4815916	Ash with cracked bark approx. 5ft from above base
				☐ cavity ☐ loose bark ☐ crack ☐ knot hole ☐ other snag within 10m? ☐ Decay Class 1-3?			
				☐ cavity ☐ loose bark ☐ crack ☐ knot hole ☐ other snag within 10m? ☐ Decay Class 1-3?			
				☐ cavity ☐ loose bark ☐ crack ☐ knot hole ☐ other snag within 10m? ☐ Decay Class 1-3?			
				☐ cavity ☐ loose bark ☐ crack ☐ knot hole ☐ other snag within 10m? ☐ Decay Class 1-3?			
				☐ cavity ☐ loose bark ☐ crack ☐ knot hole ☐ other snag within 10m? ☐ Decay Class 1-3?			
				☐ cavity ☐ loose bark ☐ crack ☐ knot hole ☐ other snag within 10m? ☐ Decay Class 1-3?			
				☐ cavity ☐ loose bark ☐ crack ☐ knot hole ☐ other snag within 10m? ☐ Decay Class 1-3?			
				☐ cavity ☐ loose bark ☐ crack ☐ knot hole ☐ other snag within 10m? ☐ Decay Class 1-3?			
				☐ cavity ☐ loose bark ☐ crack ☐ knot hole ☐ other snag within 10m? ☐ Decay Class 1-3?			

[2] **Height Class**: 1 = Dominant (above canopy); 2 = Co-dominant (canopy height); 3 = Intermediate (just below canopy); 4 = suppressed (well below canopy)

[3] The approx. height of the cavity should be noted. Note that cavities with an entrance near the ground may also be used by bats if they are "chimney-like".

[4] **Decay Class**: 1 = Healthy, live tree; 2 = Declining live tree, part of canopy lost; 3 = Very recently dead, bark intact, branches intact

Appendix G

Bird Survey Data

ELC WILDLIFE	SITE: W. Church POLYGON: 2 DATE: May 29, 2018 SURVEYOR(S): LN START TIME: 9:00	END TIME:

TEMP (°C): 12	CLOUD (10th): 10	WIND:	PRECIPITATION: light - none
CONDITIONS: damp, still, cool			

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#
	GCFL		II	
	RWBL	P	HHT III	
	HOWR	T	I	
	HOSP	P	II	
	COYE	SM	I	
	CEDW	P	II	
	NOCA	P	II	
	COGR	P	II	
	BCCH	FO	I	
	SOSP	SM	I	

TY	SP. CODE	EV	NOTES	#
M	BABY GRSQ			3

FAUNAL TYPE CODES (TY):

B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:

SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:

T = TERRITORY D = DISPLAY P = PAIR

A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:

DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG

NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK

AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:

OB = OBSERVED VO = VOCALIZATION CA = CARCASS

DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG

TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT

SI = OTHER SIGNS (specify)