

Figure 4b

Parkhill Interconnect Significant Natural Features & Vegetation Communities - Central

Legend

-  Project Area (120m)
 -  Project Location
 -  Transmission Line
 -  Existing Transmission Line
 -  Railroad
 -  Primary Road
 -  Secondary Road
 -  Intermittent Watercourse
 -  Permanent Watercourse
 -  Open Aquatic
 -  Significant Woodland (WOD)
 -  Ecological Land Classification (ELC)
- (IAG) Agricultural Infrastructure
(OAGM1) Annual Row Crops
(OAGM2) Perennial Cover Crops



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Project: 1341 Date: October 18, 2013	NAD83 - UTM Zone 17 Scale: 1:45,000 (11x17")
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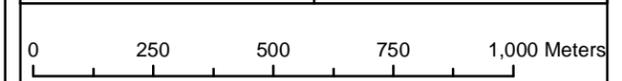
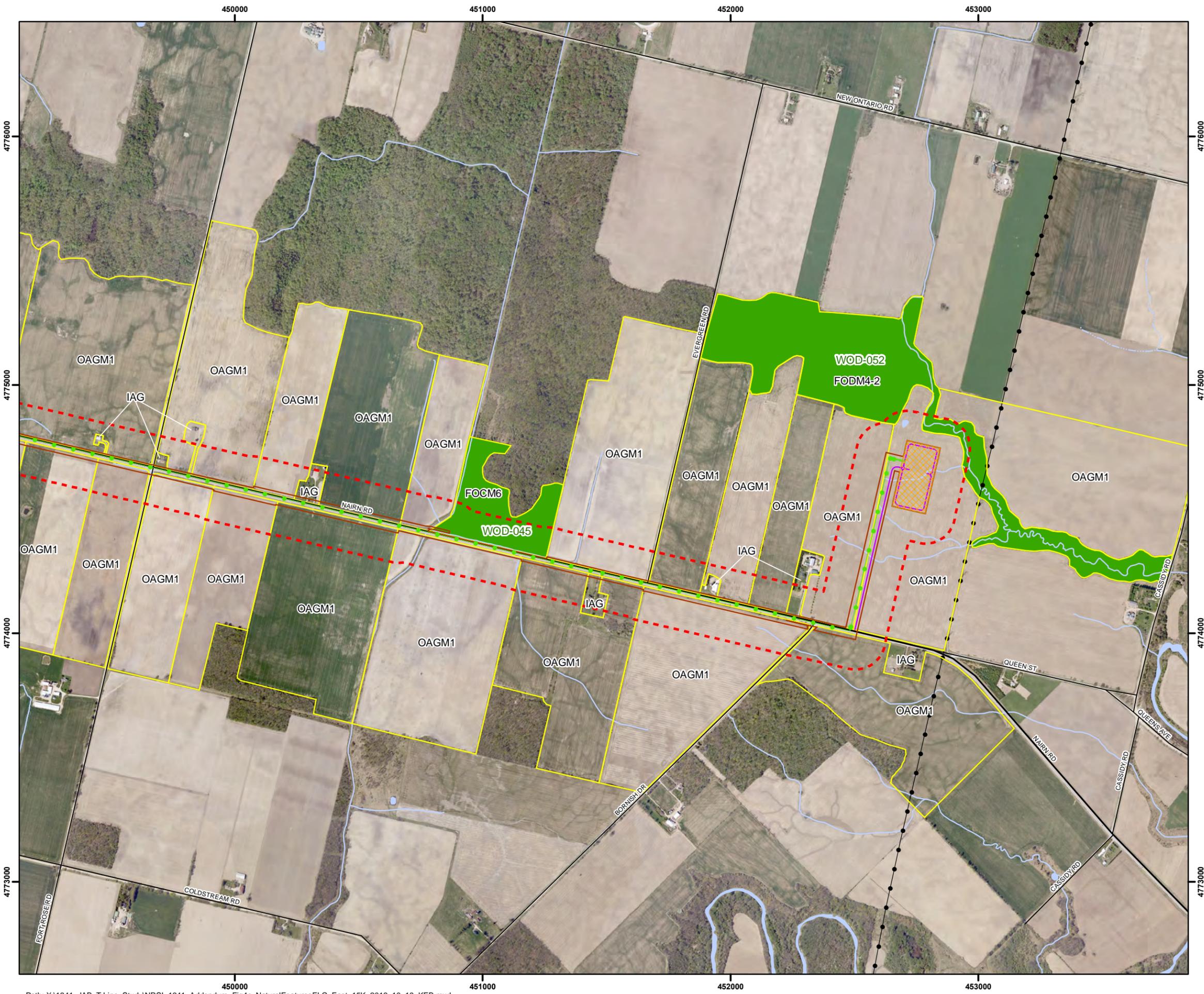


Figure 4c

Parkhill Interconnect Significant Natural Features & Vegetation Communities - East

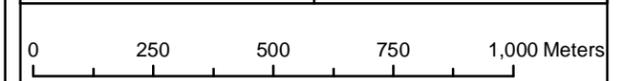
Legend

- Project Area (120m)
 - Project Location
 - Access Road
 - Transmission Line
 - Point of Interconnect
 - Existing Transmission Line
 - Railroad
 - Primary Road
 - Secondary Road
 - Intermittent Watercourse
 - Permanent Watercourse
 - Open Aquatic
 - Significant Woodland (WOD)
 - Ecological Land Classification (ELC)
- (FOCM6) Naturalized Coniferous Plantation
 (FODM4-2) Dry - Fresh White Ash - Hardwood Deciduous Forest Type
 (IAG) Agricultural Infrastructure
 (OAGM1) Annual Row Crops



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Project: 1341 Date: October 18, 2013	NAD83 - UTM Zone 17 Scale: 1:45,000 (11x17")
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6.0 Amendments to the Evaluation of Significance

As part of this addendum, NRSI biologists have reviewed the potential for changes to the Evaluation of Significance phase of this project. After examining the changes in distances between project components and natural features, reviewing changes to generalized significant wildlife habitats, and conducting additional site investigations to examine the potential for wildlife habitats in features that could no longer be considered Generalized, it has been determined that there are no new natural features or wildlife habitats that potentially exist within 120m of the project location that were not already previously studied and discussed in the MNR approved NHA documents. Therefore, no additional features require evaluation of significance. Additionally, since there are minimal changes in these distances, there are no features that are no longer within 120m of a project location.

No additional Evaluation of Significance is required for the Parkhill Interconnect as a result of modifications to the project location.

7.0 Amendments to the Environmental Impact Study

As part of this NHA Addendum Report, NRSI has considered all aspects of the previously approved Environmental Impact Study to determine if any changes or additions are required based on the changes of the project location.

For the purposes of this addendum, NRSI has reviewed three separate aspects relating to the potential for change to the EIS, as follows:

- Changes to Mitigation Measures (i.e. project location now closer to or overlapping natural features)
- New Mitigation Measures (i.e. project location within 120m of a new feature)
- Changes to Monitoring Requirements

7.1 Changes to Mitigation Measures

NRSI biologists have reviewed the changes in project location, including the distances of the project location to natural features and have determined that based on the proposed changes, several mitigation measures will be changed for WOD-004 and WOD-045.

These mitigation measures, monitoring commitments and contingency measures are outlined below in Table 4.

The mitigations measures, monitoring commitments and contingency measures for generalized significant wildlife habitat outlined in the *Parkhill Interconnect Natural Heritage Assessment Report* (NRSI 2013), no longer apply to WOD-004, WOD-045 and the area of WOD-048 that is no longer delineated as part of the woodland.

Table 4. Changes to Mitigation Measures for the Parkhill Interconnect

Feature ID	Distance to Project Location	Potential Negative Effects	Mitigation Measures	Performance Objectives, Monitoring and Contingency Measures
WOD-004 WOD-045	Overlapping	<ul style="list-style-type: none"> • Vegetation removal 	<ul style="list-style-type: none"> • Clearly delineate the construction area to avoid unnecessary and/or accidental vegetation removal, • Avoid or minimize vegetation removal, wherever possible, • Vegetation removal will directly impact less than 1.5% of the total area of each natural feature, • Protect rare plant species, communities, wildlife habitats and critical areas, • Restore any areas where vegetation removal has occurred for the purposes of temporary construction activities as soon as possible after construction, • No vegetation removal to occur during the breeding bird season (May 1st – July 31st), unless nest searches conducted prior to removal to confirm no nests are present. 	<p>Performance Objective:</p> <ul style="list-style-type: none"> • Minimize the amount of vegetation removal. <p>Monitoring:</p> <ul style="list-style-type: none"> • Upon review of final, surveyed, construction plans, a biologist will monitor all areas proposed for vegetation removal for rare plant species or potential wildlife habitat in advance of the vegetation removal. <p>Contingency Measure:</p> <ul style="list-style-type: none"> • If final construction plans show a permanent disturbance of more than 1.5% of the natural feature area, the Ministry of Natural Resources will be contacted and further mitigation measures may be implemented. • Should any rare species be documented, the Ministry of Natural Resources will be contacted and further mitigation plans may be implemented.
		<ul style="list-style-type: none"> • Sedimentation and erosion 	<ul style="list-style-type: none"> • Implement a sediment and erosion control plan, • Install, monitor, and maintain erosion and sediment control measures (i.e. silt fences) around the construction area, • Minimize vegetation removal on slopes. • Schedule grading to avoid times of high runoff volumes (spring and fall), wherever possible and suspend work if an excessive sediment discharge occurs until mitigation measures have been established. 	<p>Performance Objective</p> <ul style="list-style-type: none"> • Minimize impacts to natural features. <p>Monitoring:</p> <ul style="list-style-type: none"> • Regular construction monitoring of sediment and erosion control measures should occur in conjunction with other regular inspections of required mitigation measures. <p>Contingency Measure:</p> <ul style="list-style-type: none"> • Maintain or restore vegetated buffers, including riparian zones.
		<ul style="list-style-type: none"> • Spills (i.e. oil, gasoline, grease, etc.) 	<ul style="list-style-type: none"> • All maintenance activities, vehicle refueling or washing, and chemical storage will be located more than 30m from any significant natural feature, 	<p>Performance Objective:</p> <ul style="list-style-type: none"> • Minimize impacts to natural features. <p>Monitoring:</p>

			<ul style="list-style-type: none"> • Develop a spill response plan and train staff on appropriate procedures, • Keep emergency spill kits on site, • Dispose of waste material by authorized and approved off-site vendors, • Store hazardous materials in designated areas. 	<ul style="list-style-type: none"> • None required <p>Contingency Measure:</p> <ul style="list-style-type: none"> • None required
		<ul style="list-style-type: none"> • Changes in soil moisture and compaction 	<ul style="list-style-type: none"> • Implement infiltration techniques to the maximum extent possible, • Minimize the use of impervious surfaces where possible, such as utilizing and contouring permeable surface material (i.e gravel) to increase infiltration and reduce surface water runoff. 	<p>Performance Objective:</p> <ul style="list-style-type: none"> • Minimize impact to soil moisture regime and vegetation species composition. <p>Monitoring:</p> <ul style="list-style-type: none"> • None required <p>Contingency Measure:</p> <p>None required</p>
		<ul style="list-style-type: none"> • Accidental damage to vegetation, including limbs and root zones 	<p>Clearly delineate work area using erosion fencing, or similar barrier, to avoid accidental damage to species to be retained,</p> <ul style="list-style-type: none"> • Herbicides, if required, will be applied using a targeted application to specific tree stumps or small vegetation clusters rather than a general treatment within the entire cleared area. 	<p>Performance Objective:</p> <ul style="list-style-type: none"> • Minimize direct impacts on vegetation communities and protect rare/sensitive habitats. <p>Monitoring:</p> <ul style="list-style-type: none"> • None required <p>Contingency Measure:</p> <ul style="list-style-type: none"> • Any tree limbs or roots that are accidentally damaged by construction activities will be pruned using proper arboricultural techniques.
		<ul style="list-style-type: none"> • Fugitive Dust Emission 	<ul style="list-style-type: none"> • Implement a speed limit for construction equipment and trucks, • Apply dust suppressants to unpaved areas, • Re-vegetate cleared areas as soon as possible, • Install wind fences, as required. 	<p>Performance Objective:</p> <ul style="list-style-type: none"> • Minimize impacts to natural features. <p>Monitoring:</p> <ul style="list-style-type: none"> • None required <p>Contingency Measure:</p> <p>None required</p>

7.2 New Mitigation Measures

There are no new significant natural features or wildlife habitats within the project area. As a result, no new mitigation measures need to be implemented for this project.

7.3 Changes to Monitoring Requirements

Based on the changes in project location, an additional monitoring requirement has been identified and outlined in Table 4 of this report. The additional monitoring requirement includes conducting vegetation inventories prior to any vegetation removal to ensure any rare species are documented and addressed appropriately in the unlikely event they are present within the area proposed for vegetation removal. NRSI has determined that the monitoring requirements identified in the Natural Heritage Assessment Report, along with those identified above, are suitable for the monitoring of potential impacts of the proposed Parkhill Interconnect.

8.0 Summary of Natural Heritage Amendments

In accordance with the REA Regulation, NRSI biologists have completed a comprehensive records review, site investigation, evaluation of significance, and EIS of the Parkhill Interconnect project area. Following the review of proposed adjustments to the project location (as discussed above), NRSI has re-considered all aspects of the Natural Heritage Assessment within this report to determine if there are new natural features, changes in distance to project location, or new mitigation measures or monitoring commitments required to ensure that potential permanent or adverse environmental impacts are mitigated or studied appropriately. The summary of the result of this review of changes to the project location is summarized in Table 5 below.

Table 5. Summary of Natural Heritage Addendum for the Parkhill Interconnect

Addendum Changes	Addendum Result
Significant Features	The boundaries of one natural feature, WOD-048, have been re-delineated and 3 natural features, including an area of WOD-048, and the entirety of WOD-004 and WOD-045 are no longer considered generalized significant wildlife habitat based on further site investigation of these features. NRSI has not identified any additional significant natural features or wildlife habitats within the project area. No other natural features or wildlife habitats have been removed from the project area due to the amendment to the project's layout.
Changes in Distances to Project Location	<p>The distances from the project location to significant natural features and wildlife habitats have changed due to minor adjustments to the project layout. These changes in distances to project location are associated with 6 significant natural features (woodlands) and the associated generalized significant wildlife habitats.</p> <p>Changes in distances from the project location to significant natural features (WOD-004, 045, 046, 047, 048, 052) are shown in Table 1 of this report.</p>
Mitigation Measures	<p>Based on the adjustments of the project location, NRSI biologists have identified no additional significant features within 120m of the project location that require mitigation measures to be applied.</p> <p>Due to changes in distances between natural features and project components, additional mitigation measures have been proposed (Table 4) for two significant woodlands, WOD-004 and WOD-045.</p> <p>Generalized significant wildlife habitat mitigation measures no longer apply to WOD-004, WOD-045 and the area of WOD-048 located south of Elginfield Road that is no longer delineated as a woodland.</p> <p>All other mitigation measures, as detailed in the Natural Heritage Assessment Report (NRSI 2013) will provide the appropriate protection to ensure any permanent and adverse impacts from the Parkhill Interconnect are mitigated.</p>
Monitoring Commitments	<p>NRSI has identified that, based on the minor shifts in project location, the monitoring commitments outlined in the Natural Heritage Assessment Report (NRSI 2013) are still appropriate to monitor any potentially adverse impacts of this project.</p> <p>An additional monitoring requirement has been proposed based on possible vegetation removal. This new monitoring commitment is outlined in Table 4.</p>

With this addendum, it is maintained that with the implementation of the planned mitigation measures, monitoring programs, and contingency plans as presented in the Parkhill Interconnect Natural Heritage Assessment (NRSI 2013), that there is unlikely to be any significant impacts to natural heritage features, including woodlands or significant wildlife habitat.

9.0 References

Natural Resource Solutions Inc. (NRSI). 2013. Parkhill Interconnect Natural Heritage Assessment Report. February 2013.

Ontario Ministry of Natural Resources (OMNR). 2012. Significant Wildlife Habitat Ecoregion 7E Criterion Schedule. Addendum to Significant Wildlife Habitat Technical Guide. February 2012.

Ontario Ministry of Natural Resources (OMNR). 2011. Natural Heritage Assessment Guide for Renewable Energy Projects.

Ontario Ministry of Natural Resources (OMNR). 2008. Species At Risk in Ontario – Red headed Woodpecker. Available at:
http://www.rom.on.ca/ontario/risk.php?doc_type=fact&id=120&lang=en

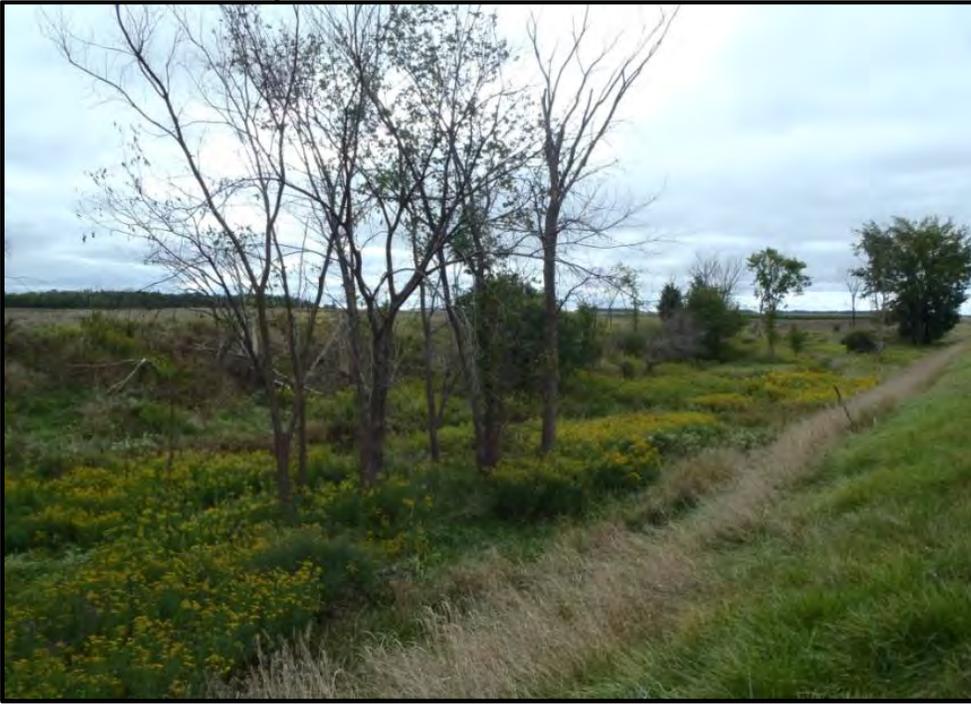
Ontario Ministry of Natural Resources (OMNR). 2000. Significant Wildlife Habitat: Technical Guide. MNR, October 2000.

University of Wisconsin. N.D. Robert W. Freckman Herbarium. Available at
<http://wisplants.uwsp.edu/index.html>

Appendix I
Photo Appendix

Appendix I: Photo Appendix

MEMM4 Habitat: Facing southeast from Kerwood Road



MEMM4 Habitat: Facing east from Kerwood Road



MEMM4 Habitat: Facing northeast from Kerwood Road



Appendix II
Field Notes

Wildlife Observation Form
NATURAL RESOURCE SOLUTIONS INC.

Site: Rornish #11E 1231 / 1230 Adelaide, WDD-048
 Polygon: WDD 004
 UTM: 17T 442379 4775637
 Date: 25/08/11 Time: 9:20
 Surveyor(s): JRW KNP
 Weather: Sunny 20°C CC=60% Wind=4

Species Observed					Check for Wildlife Habitat that may be associated with an observation				
TY	Species	EV	Notes	#	TY	Species	EV	Notes	#
B	Mourning Dove	VO		2					
M	Mouse e6	OB		1					
B	Goldfinch	VO		2					
L	Bluebird	OB		1					
R	Am Robin	OB		1					
B	Great catbird	VO		1					
L	Parula white	OB		1					
M	Deer	TK		1					
H	Acorn Finch	VO		1					
M	Squirrel	VO	EUM	1					
B	Blue Jay	VO		1					
B	Cardinal	OB		3					
B	Red-shouldered	VO		1					

Faunal Type Codes (TY)

B=Bird M=Mammal H=Herpetofauna L=Lepidoptera F=Fish D=Dragonfly or Damselfly

Evidence Codes (EV)

Breeding Birds

- SH- Suitable Habitat
- SM- Singing Male
- T- Territory
- A- Anxiety Behavior
- D- Courtship Display
- N- Nest Building
- P- Pair
- V- Visiting Nest
- DD- Distraction Display
- NE- Nest with Eggs
- AE-Adult entering nest
- NU- Used nest
- FY- Fledged Young
- FS- Food/Fecal Sac

Other Wildlife

- OB- Observed
- DP- Distinctive Parts
- TK- Tracks
- VO- Vocalization
- HO- House/Den
- FE- Feeding Evidence
- CA- Carcass/Bones
- FY- Eggs or young
- SC- Scat
- SI- Other Signs (Specify)

Wildlife Habitat Form
NATURAL RESOURCE SOLUTIONS INC.

Site: 1231 Rornish / 1230 Adelaide, WDD-048
 Polygon: WDD 004
 UTM: 17T 442379 4775637
 Date: 25/08/11 Time: 9:20
 Surveyor(s): JRW KNP
 Weather: Sunny 20°C CC=60% Wind 4

Wildlife Habitat (Check all that apply AND record UTM / mark on map)
 Habitats and Habitat Features are independent of wildlife observations

Habitat Type	Habitat Features	Snakes
<input checked="" type="checkbox"/> Deciduous Forest	<input type="checkbox"/> Spring Flooded Field	<input type="checkbox"/> Burrow
<input type="checkbox"/> Mixed Forest	<input type="checkbox"/> Stick Nest (Raptors, Herons)	<input type="checkbox"/> Fallen Rotting Log
<input type="checkbox"/> Coniferous Forest	<input type="checkbox"/> Marsh	<input type="checkbox"/> Old Well
<input type="checkbox"/> Swamp	<input type="checkbox"/> Tree Cavity Nest (Ducks)	<input checked="" type="checkbox"/> Rock Pile/Stone Wall
<input type="checkbox"/> Bog	<input type="checkbox"/> Seep/Spring (Turkeys/Grouse)	<input type="checkbox"/> Organics Pile
<input type="checkbox"/> Fen	<input type="checkbox"/> Cliffs/Banks	<input type="checkbox"/> Log Pile
<input type="checkbox"/> Water	Bats	<input type="checkbox"/> Karst
<input type="checkbox"/> (Shallow & Open)	<input type="checkbox"/> Cave Entrance	<input type="checkbox"/> Broken/Fissured Rock
<input type="checkbox"/> Meadow	<input type="checkbox"/> Mine Shaft	<input type="checkbox"/> Old Foundation
<input type="checkbox"/> Tallgrass Prairie	<input checked="" type="checkbox"/> Snag (>20cm DBH)	<input type="checkbox"/> Old Bridge/Concrete Culvert
<input type="checkbox"/> Thicket	Mink/Otter/Fisher/Marten	Amphibians and Turtles
<input type="checkbox"/> Savannah	<input type="checkbox"/> Snag	<input type="checkbox"/> Vernal Pool/Woodland Pond (Amphibian Breeding)
<input type="checkbox"/> Woodland	<input type="checkbox"/> Burrow	<input type="checkbox"/> Sand (Turtle Nesting)
<input checked="" type="checkbox"/> Valley	<input type="checkbox"/> Den	<input type="checkbox"/> Fine/Sandy Gravel (Turtle Nesting)
<input type="checkbox"/> (Describe Below)	<input type="checkbox"/> Tree Cavity	Invertebrates
<input type="checkbox"/> Headwater Area	<input type="checkbox"/> Fallen Log	<input type="checkbox"/> Crayfish Chimney
<input type="checkbox"/> (check for Seeps/Springs)	Deer/Moose	
<input type="checkbox"/> Valley to	<input type="checkbox"/> Seep/Spring	
<input type="checkbox"/> Creek running	<input type="checkbox"/> Mineral Lick	
<input type="checkbox"/> through		
<input type="checkbox"/> ridge of swamp.		

For every Habitat Type or Habitat Feature, record UTM below (for each occurrence) or mark on map

Habitat Feature:	UTM	Description
Rock pile	17T 0442103 4776237	large cement rock block pile
bird snag	±10m east of rock pile	-bird snag in ravine & falling bark
mammal area?	17T 0442121 4776141	-moss like subsoil
Grass	17T 0442288 4775941	-trunk like vernal pool dried up
		-snag & peeling bark not specified.

Describe Valley (depth, geomorphological traits):

Additional Details:

100 - 1296 = Vernal pool
1297 - creek

Wildlife Habitat Field Data Collection

confirmed by JRW, KGB

Sept 25/13

1300-1310

10% CC

23' E02

Done from roadside



Project Name: Parkhill Project #: 1341 Area and/or Polygon ID: W00-045
 Date: 16 Sept 2013 Start Time: 1220 End Time: 1235 Observers: (SKH, AMI)
 Weather Conditions: 14°C, 100% CC, 2 wind

Photos: 1772-1776

Indicate whether or not the following habitat features are present within the polygon. If Yes to any, fill in Page 2. Incidental Wildlife Observations on Page 2.

Habitat Features	Present	Information to Record on Page 2
Water	Yes No	Applicable to All:
Spring Flooded Field	<input type="checkbox"/> <input checked="" type="checkbox"/>	Draw extent of all water if not indicated through ELC. Longevity of site (if known, or estimate).
Vernal Pool	<input type="checkbox"/> <input checked="" type="checkbox"/>	Dimensions (length, width, and depth). Sources of disturbance, current use, origin (natural or anthropogenic).
Pond	<input type="checkbox"/> <input checked="" type="checkbox"/>	Vegetation species, woody debris/basking logs within water. Evidence of wildlife use including waterfowl, turtles, amphibians
Shallow Marsh (MAS) or Open Water	<input type="checkbox"/> <input checked="" type="checkbox"/>	Presence of fish
Swamp	<input type="checkbox"/> <input checked="" type="checkbox"/>	All Swamps: Always search for Heron Nest Bowls. Record if active (April-June only) - Evidence includes egg shells, guano, dead young. Map colony/nests if found.

Fields	Yes No	Applicable to All:
Non-rotational Hay or Weakly Grazed Pasture	<input type="checkbox"/> <input checked="" type="checkbox"/>	Height of vegetation
Meadow	<input type="checkbox"/> <input checked="" type="checkbox"/>	Evidence of small mammals
Thicket, Woodland, Hydro Corridor	<input type="checkbox"/> <input checked="" type="checkbox"/>	

Size of site
 Frequency and source of disturbance
 Location and abundance of raptor perches (scattered trees, snags, fenceposts)
 Abundance of nectar-producing plants (e.g. goldenrods and asters)
 Adjacency to forest and forest size

Substrate and Topography	Yes No	Applicable to All:
Sand or Fine/Loose Gravel	<input type="checkbox"/> <input checked="" type="checkbox"/>	Evidence of use (turtles in or near the area, turtle tracks, raided nests). Proximity to Shallow Marsh (MAS) or Open Water
Banks, Steep Slopes, Sand Piles	<input type="checkbox"/> <input checked="" type="checkbox"/>	Count swallow nest holes and indicate location. Estimate number of breeding pairs. Sources of disturbance. Draw extent if not indicated through ELC.
Cliffs	<input type="checkbox"/> <input checked="" type="checkbox"/>	Height of cliff. Rock type. Presence of ledges or crevices and their size. Draw extent of cliffs if not indicated through ELC.
Karst	<input type="checkbox"/> <input checked="" type="checkbox"/>	Depth of crevices
Cave	<input type="checkbox"/> <input checked="" type="checkbox"/>	Depth of cave, bedrock type
Natural Rock Piles / Talus Slopes	<input type="checkbox"/> <input checked="" type="checkbox"/>	Age. Rock/soil type. Draw extent of talus slopes if not indicated by ELC. Adjacency to large water body with productive fish population (otters).
Exposed Unvegetated Lake/River/Wetland Edge	<input type="checkbox"/> <input checked="" type="checkbox"/>	Source of disturbances. Presence of shorebird food sources (snails, worms, clams, insects). Percent vegetation cover. Distance to a Great Lake.
Seeps or Springs	<input type="checkbox"/> <input checked="" type="checkbox"/>	Ecosite. Number or area of extent. Presence of indicator plants. Iron staining. Water temperature. Degree and length of slope. Soil types.
Islands or Peninsulas in Open Water	<input type="checkbox"/> <input checked="" type="checkbox"/>	Natural or artificial. Record any gulls or terns observed. Draw extent of island or peninsula if not indicated through ELC.

Anthropogenic Features	Yes No	Applicable to All:
Abandoned Mine Shaft	<input type="checkbox"/> <input checked="" type="checkbox"/>	Age
Old Rock or Debris Pile, Old Stone Fence	<input type="checkbox"/> <input checked="" type="checkbox"/>	Rock size
Abandoned Road or Rail Bed	<input type="checkbox"/> <input checked="" type="checkbox"/>	Evidence of Use
Abandoned Well	<input type="checkbox"/> <input checked="" type="checkbox"/>	Abandoned Wells Only: Presence and type of capping
Old Foundation	<input type="checkbox"/> <input checked="" type="checkbox"/>	Abandoned Road or Rail Bed Only: Extant in the landscape. Connectivity to other natural features. Overhead vegetation cover.

Depth into the ground
 Amount of sun exposure (or direction the slope faces)
 Vegetation present
 Substrate composition (or bedrock type)
 Proximity to water and estimated subterranean influence or potential for winter water fluctuation

Burrows or Dens	Yes No	Applicable to Mammal Burrows or Dens:
Small - Rodent or Snake	<input type="checkbox"/> <input checked="" type="checkbox"/>	Diameter of entrance
Medium	<input type="checkbox"/> <input checked="" type="checkbox"/>	Ecosite of location
Large	<input type="checkbox"/> <input checked="" type="checkbox"/>	
Log Jams, Old Beaver Lodges	<input type="checkbox"/> <input checked="" type="checkbox"/>	Adjacency to large water body with productive fish population. Evidence of otter (observed, tracks, scat, predated fish, turtles, eggs, frogs).
Crayfish Chimney (7E only)	<input type="checkbox"/> <input checked="" type="checkbox"/>	Ecosite of location. Soil type. Source of site moisture (meadow marsh, creek/river edge, swamp etc).

Soil Type
 Proximity to water and type of water
 Availability of aquatic vegetation or fish
 Evidence of use, or tracks or digging marks

Evidence	Yes No	Applicable to All:
Extensive Browse and/or Ungulate Scat	<input type="checkbox"/> <input checked="" type="checkbox"/>	Vegetation species browsed. Ecosite. Other evidence of ungulate use. Presence of seeps/springs. Barriers to movement to and from the area.
Nest Bowl or Stick Nest (herons or raptors)	<input type="checkbox"/> <input checked="" type="checkbox"/>	Quantity. Ecosite of location. Evidence of use. Species if known or bird group. Size. Height in tree. Tree species.

Outstanding Trees	Yes No	Applicable to All:
Large DBH, Outstanding Tall Snag	<input checked="" type="checkbox"/> <input type="checkbox"/>	Tree species. Evidence of perch usage or nesting. DBH, height. Exposure above canopy. Distance from surrounding forest (m) or within.
Large DBH Cavity Tree (Live or Dead)	<input checked="" type="checkbox"/> <input type="checkbox"/>	Tree species, DBH. Number of cavities. Size and type of cavities. Evidence of use by bats (abundant guano) or other mammals or wood ducks.

Rare Communities or Species	Yes No	Applicable to All:
Old-Growth Forest	<input type="checkbox"/> <input checked="" type="checkbox"/>	Average age of trees. Range of DBH or prism sweep. Sources of disturbance (includes presence of exotics).
Tallgrass Prairie or Savannah	<input type="checkbox"/> <input checked="" type="checkbox"/>	Soil type. Percent cover of trees, shrubs, forbs, and grasses. Sources of disturbance (includes presence of exotics).
Bog	<input type="checkbox"/> <input checked="" type="checkbox"/>	Soil type and depths.
Red Spruce or White Oak Forest	<input type="checkbox"/> <input checked="" type="checkbox"/>	Soil type and drainage regime. DBH range or prism sweep. Approximate Canopy Cover. Source of disturbance or evidence of forestry.
Coastal Marshes (Great Lakes/Shallow Atlantic)	<input type="checkbox"/> <input checked="" type="checkbox"/>	Substrate type (bedrock or soil type). Water level. Evidence of water fluctuation. Presence of Beaver Pond. Amount of exposed shoreline.
Dunes / Beaches / Bars / Ridges	<input type="checkbox"/> <input checked="" type="checkbox"/>	Soil or substrate type. Sand class. Sources of disturbance (includes presence of exotics). Percent cover of trees, shrubs, forbs, and grasses.
Sand Barren	<input type="checkbox"/> <input checked="" type="checkbox"/>	Sand class. Sources of disturbance (includes presence of exotics). Percent area of exposed rock, vegetation, and sand. Sources of erosion or fire.
Alvar	<input type="checkbox"/> <input checked="" type="checkbox"/>	Bedrock type. Soil type and depth. Percent area of exposed rock and vegetation. Sources of disturbance (includes presence of exotics).
Rare Species (Not Species At Risk)	<input type="checkbox"/> <input checked="" type="checkbox"/>	Number of individuals and locations. Ecosite or Vegetation Type.
Rare Vegetation Community	<input type="checkbox"/> <input checked="" type="checkbox"/>	Sources of disturbance (includes presence of exotics).

Characteristics of Identified Wildlife Habitat

Date: Sept 16, 2013
 Project Name: Bornish Project #: 1231 Area and/or Polygon ID: W0D-045



Indicate the location of the habitat feature on the Field Map.

Identified Habitat Feature	# Observed	UTM(s)	Photo Numbers	Habitat Details (refer to Page 1)	Associated Wildlife Observed and Evidence
Thicket	1	17T 04S 0825 4774403	100-165 to 100-169	1 potential snag tree for perch (do not have access to prop) scattered trees.	1

TY	Species	EV	#	Notes	TY	Species	EV	#	Notes
B		H, OB	1	flew from perch on e. side of					
M	WT Deer	CA		roadside (hit) ditch					

Faunal Type Codes (TY) B=Bird M=Mammal H=Herpetofauna L=Lepidoptera F=Fish D=Dragonfly or Damselfly	Evidence Codes (EV) Breeding Birds H- Suitable Habitat S- Singing Male P- Pair T- Territory D- Courtship Display V- Visiting Nest A- Anxiously Behavior N- Nest Building (not wren or woodpecker) NB- Nest Building (not wren or woodpecker) DD- Distraction Display NU- Used nest FY- Fledged Young FS- Food/Fecal Sac CF- Adult carrying food NE- Nest with eggs NY- Nest with young AE-Adult entering/leaving nest	Other Wildlife OB- Observed DP- Distinctive Parts TK- Tracks VO- Vocalization HO- House/Den FE- Feeding Evidence CA- Carcass/Bones FY- Eggs or young SC- Scat SI- Other Signs (Specify)
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* 1 dead deer on side of road.

Wildlife Habitat Field Data Collection

Project Name: <u>Parkhill</u>	Project #: <u>1341</u>	Area and/or Polygon ID: <u>W00-045</u>
Date: <u>SEP 25 2013</u>	Start Time: <u>13:00</u>	End Time: <u>13:40</u>
Weather Conditions: <u>23°C, 10% C.C. Wind 2 from E</u>		
Observers: <u>JRW, KGB</u>		

Indicate whether or not the following habitat features are present within the polygon. If Yes to any, fill in Page 2. Incidental Wildlife Observations on Page 2.

Habitat Features	Present	Information to Record on Page 2
Water	Yes No	Applicable to All:
Spring Flooded Field	<input type="checkbox"/> <input checked="" type="checkbox"/>	Draw extent of all water if not indicated through ELC. Longevity of site (if known, or estimate).
Vernal Pool	<input type="checkbox"/> <input checked="" type="checkbox"/>	Dimensions (length, width, and depth) Sources of disturbance, current use, origin (natural or anthropogenic).
Pond	<input type="checkbox"/> <input checked="" type="checkbox"/>	Vegetation species, woody debris/basking logs within water. Evidence of wildlife use including waterfowl, turtles, amphibians
Shallow Marsh (MAS) or Open Water	<input type="checkbox"/> <input checked="" type="checkbox"/>	Presence of fish
Swamp	<input type="checkbox"/> <input checked="" type="checkbox"/>	All Swamps: Always search for Heron Nest Bowls. Record if active (April-June only) - Evidence includes egg shells, guano, dead young. Map colony/nests if found.

Habitat Features	Present	Information to Record on Page 2
Fields	Yes No	Applicable to All:
Non-rotational Hay or Weakly Grazed Pasture	<input type="checkbox"/> <input checked="" type="checkbox"/>	Height of vegetation Size of site Abundance of nectar-producing plants (e.g. goldenrods and asters)
Meadow	<input type="checkbox"/> <input checked="" type="checkbox"/>	Evidence of small mammals Frequency and source of disturbance Adjacency to forest and forest size
Thicket, Woodland, Hydro Corridor	<input checked="" type="checkbox"/> <input type="checkbox"/>	Location and abundance of raptor perches (scattered trees, snags, fenceposts)

Habitat Features	Present	Information to Record on Page 2
Substrate and Topography	Yes No	Applicable to All:
Sand or Fine/Loose Gravel	<input type="checkbox"/> <input checked="" type="checkbox"/>	Evidence of use (turtles in or near the area, turtle tracks, raided nests). Proximity to Shallow Marsh (MAS) or Open Water
Banks, Steep Slopes, Sand Piles	<input type="checkbox"/> <input checked="" type="checkbox"/>	Count swallow nest holes and indicate location. Estimate number of breeding pairs. Sources of disturbance. Draw extent if not indicated through ELC.
Cliffs	<input type="checkbox"/> <input checked="" type="checkbox"/>	Height of cliff. Rock type. Presence of ledges or crevices and their size. Draw extent of cliffs if not indicated through ELC.
Karst	<input type="checkbox"/> <input checked="" type="checkbox"/>	Depth of crevices
Cave	<input type="checkbox"/> <input checked="" type="checkbox"/>	Depth of cave, bedrock type
Natural Rock Piles / Talus Slopes	<input type="checkbox"/> <input checked="" type="checkbox"/>	Age. Rock/soil type. Draw extent of talus slopes if not indicated by ELC. Adjacency to large water body with productive fish population (otters).
Exposed Unvegetated Lake/River/Wetland Edge	<input type="checkbox"/> <input checked="" type="checkbox"/>	Source of disturbances. Presence of shorebird food sources (snails, worms, clams, insects). Percent vegetation cover. Distance to a Great Lake.
Seeps or Springs	<input type="checkbox"/> <input checked="" type="checkbox"/>	Ecosite. Number or area of extent. Presence of indicator plants. Iron staining. Water temperature. Degree and length of slope. Soil types.
Islands or Peninsulas in Open Water	<input type="checkbox"/> <input checked="" type="checkbox"/>	Natural or artificial. Record any gulls or terns observed. Draw extent of island or peninsula if not indicated through ELC.

Habitat Features	Present	Information to Record on Page 2
Anthropogenic Features	Yes No	Applicable to All:
Abandoned Mine Shaft	<input type="checkbox"/> <input checked="" type="checkbox"/>	Age Depth into the ground Amount of sun exposure (or direction the slope faces)
Old Rock or Debris Pile, Old Stone Fence	<input type="checkbox"/> <input checked="" type="checkbox"/>	Rock size Vegetation present Substrate composition (or bedrock type)
Abandoned Road or Rail Bed	<input type="checkbox"/> <input checked="" type="checkbox"/>	Evidence of Use Proximity to water and estimated subterranean influence or potential for winter water fluctuation.
Abandoned Well	<input type="checkbox"/> <input checked="" type="checkbox"/>	Abandoned Wells Only: Presence and type of capping
Old Foundation	<input type="checkbox"/> <input checked="" type="checkbox"/>	Abandoned Road or Rail Bed Only: Extent in the landscape Connectivity to other natural features. Overhead vegetation cover.

Habitat Features	Present	Information to Record on Page 2
Burrows or Dens	Yes No	Applicable to Mammal Burrows or Dens:
Small - Rodent or Snake	<input type="checkbox"/> <input checked="" type="checkbox"/>	Diameter of entrance Soil Type Availability of aquatic vegetation or fish
Medium	<input type="checkbox"/> <input checked="" type="checkbox"/>	Ecosite of location Proximity to water and type of water Evidence of use, or tracks or digging marks
Large	<input type="checkbox"/> <input checked="" type="checkbox"/>	Adjacency to large water body with productive fish population Evidence of otter (observed, tracks, scat, predated fish, turtles, eggs, frogs).
Log Jams, Old Beaver Lodges	<input type="checkbox"/> <input checked="" type="checkbox"/>	Ecosite of location. Soil type Source of site moisture (meadow marsh, creek/river edge, swamp etc).
Crayfish Chimney (7E only)	<input type="checkbox"/> <input checked="" type="checkbox"/>	

Habitat Features	Present	Information to Record on Page 2
Evidence	Yes No	Applicable to All:
Extensive Browse and/or Ungulate Scat	<input checked="" type="checkbox"/> <input type="checkbox"/>	Vegetation species browsed. Ecosite (Other evidence of ungulate use) Presence of seeps/springs. Barriers to movement to and from the area.
Nest Bowl or Stick Nest (herons or raptors)	<input type="checkbox"/> <input checked="" type="checkbox"/>	Quantity. Ecosite of location. Evidence of use. Species if known or bird group. Size. Height in tree. Tree species.

Habitat Features	Present	Information to Record on Page 2
Outstanding Trees	Yes No	Applicable to All:
Large DBH, Outstanding Tall Snag	<input checked="" type="checkbox"/> <input type="checkbox"/>	Tree species. Evidence of perch usage or nesting. DBH, height. Exposure above canopy. Distance from surrounding forest (m) or within.
Large DBH Cavity Tree (Live or Dead)	<input type="checkbox"/> <input checked="" type="checkbox"/>	Tree species. DBH. Number of cavities. Size and type of cavities. Evidence of use by bats (abundant guano) or other mammals or wood ducks.

Habitat Features	Present	Information to Record on Page 2
Rare Communities or Species	Yes No	Applicable to All:
Old-Growth Forest	<input type="checkbox"/> <input checked="" type="checkbox"/>	Average age of trees. Range of DBH or prism sweep. Sources of disturbance (includes presence of exotics).
Tallgrass Prairie or Savannah	<input type="checkbox"/> <input checked="" type="checkbox"/>	Soil type. Percent cover of trees, shrubs, forbs, and grasses. Sources of disturbance (includes presence of exotics).
Bog	<input type="checkbox"/> <input checked="" type="checkbox"/>	Soil type and depths.
Red Spruce or White Oak Forest	<input type="checkbox"/> <input checked="" type="checkbox"/>	Soil type and drainage regime. DBH range or prism sweep. Approximate Canopy Cover. Source of disturbance or evidence of forestry.
Coastal Marshes (Great Lakes/Shallow Atlantic)	<input type="checkbox"/> <input checked="" type="checkbox"/>	Substrate type (bedrock or soil type). Water level. Evidence of water fluctuation. Presence of Beaver Pond. Amount of exposed shoreline.
Dunes / Beaches / Bars / Ridges	<input type="checkbox"/> <input checked="" type="checkbox"/>	Soil or substrate type. Sand class. Sources of disturbance (includes presence of exotics). Percent cover of trees, shrubs, forbs, and grasses.
Sand Barren	<input type="checkbox"/> <input checked="" type="checkbox"/>	Sand class. Sources of disturbance (includes presence of exotics). Percent area of exposed rock, vegetation, and sand. Sources of erosion or fire.
Alvar	<input type="checkbox"/> <input checked="" type="checkbox"/>	Bedrock type. Soil type and depth. Percent area of exposed rock and vegetation. Sources of disturbance (includes presence of exotics).
Rare Species (Not Species At Risk)	<input type="checkbox"/> <input checked="" type="checkbox"/>	Number of individuals and locations. Ecosite or Vegetation Type
Rare Vegetation Community	<input type="checkbox"/> <input checked="" type="checkbox"/>	Sources of disturbance (includes presence of exotics).

Characteristics of Identified Wildlife Habitat

Date: Sept. 25, 2013

Project Name: Parkhill Project #: 1341 Area and/or Polygon ID: W0D-045

Indicate the location of the habitat feature on the Field Map.

Identified Habitat Feature	# Observed	UTM(s)	Photo Numbers	Habitat Details (refer to Page 1)	Associated Wildlife Observed and Evidence
Thicket	1	17T 0450852 4774424	1772-1776	One snag tree, no evidence of perching or nesting. Scattered trees in thicket.	None
Ungulate presence	1	17T 0450852 4774424	1772-1776	Dead white-tailed deer on side of the road	White-tailed deer

TY	Species	EV	#	Notes	TY	Species	EV	#	Notes
B	turkey vulture	OB	•						
B	mourning dove	OB	•						
M	white-tailed deer	CA	•	on side of road					

Faunal Type Codes (TY) B=Bird M=Mammal H=Herpetofauna L=Lepidoptera F=Fish D=Dragonfly or Damselfly	Evidence Codes (EV) Breeding Birds H- Suitable Habitat S- Singing Male P- Pair T- Territory D- Courtship Display V- Visiting Nest A- Anxiety Behavior N- Nest Building (not wren or woodpecker) NB- Nest Building (not wren or woodpecker) DD- Distraction Display NU- Used nest FY- Fledged Young	FS- Food/Fecal Sac CF- Adult carrying food NE- Nest with eggs NY- Nest with young AE-Adult entering/leaving nest	Other Wildlife OB- Observed DP- Distinctive Parts TK- Tracks VO- Vocalization HO- House/Den FE- Feeding Evidence CA- Carcass/Bones FY- Eggs or young SC- Scat SI- Other Signs (Specify)
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NATURAL RESOURCE SOLUTIONS INC

Modified ELC Community Description

Page 1 of 1

Site: Parkhill Interconnect 1341
 Polygon: W0D-048
 UTM: 17T 0441695 4776451
 Date: Sept 16/13 Time: 11:25
 Surveyor(s): AMD GKM
 Weather: 14°C, 100% c.c., wind 3 NW

Community Classification

Vegetation Type: Fresh-moist mixed meadow MEMMY
 Inclusion:
 Complex:

Polygon Description

System	Substrate	Topo Feature	Community
<input checked="" type="checkbox"/> Terrestrial	Organic	Lacustrine	Lake
<input type="checkbox"/> Wetland	<input checked="" type="checkbox"/> Mineral Soil	Riverine	Pond
<input type="checkbox"/> Aquatic	Parent Min.	<input checked="" type="checkbox"/> Bottomland	River
	Acidic Bedrock	Terrace	Stream
	Basic Bedrock	Valley Slope	Marsh
History	Carb. Bedrock	Tableland	Swamp
<input type="checkbox"/> Natural		Roll Upland	Fen
<input checked="" type="checkbox"/> Cultural		Cliff	Bog

Cover	Open Water	Plant Form
<input checked="" type="checkbox"/> Open	Shallow Water	Plankton
<input type="checkbox"/> Shrub	<input checked="" type="checkbox"/> Surficial Dep.	<input checked="" type="checkbox"/> Forb
<input type="checkbox"/> Treed	Bedrock	Submerged
		Floating-Lvd.
		<input checked="" type="checkbox"/> Graminoid
		Lichen
		Bryophyte
		Deciduous
		Coniferous
		Mixed

Stand Description

Layer	HT	Cover	Species
Super-canopy			
1 Canopy	2	2	white elm
2 Sub-canopy	3	2	white elm > common buckthorn > scotts pine
3 Understorey	4	4	common buckthorn > red osier dogwood
4 Groundcover	5-7	4	Canada goldenrod > lance-leaf osters > smooth brome

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

Cover Codes: 0:none 1: 0-10% 2: 10-25 3: 25-60% 4: >60%

Size Class Analysis	R	K	K	N
Snags	<10	10-24	25-50	>50
Deadfall/Logs	<10	10-24	25-50	>50

Abundance Codes: N: None R: Rare O: Occasional A: Abundant

Community Age: Pioneer Young Mid-age Mature Old Growth

NATURAL RESOURCE SOLUTIONS INC

Modified ELC Community Description

Page 1 of 1

PLANT SPECIES LIST

Site: Parkhill 1341
 Polygon: W0D-048
 UTM: 17T 0441695 4776451
 Date: Sept 16/13 Time: 11:25
 Surveyor(s): AMD GKM
 Weather: 14°C, 100% c.c., wind 3 NW

Layers: 1=canopy 2=sub-canopy 3=understorey 4=ground layer

Abundance Codes: R=rare O=occasional A=abundant D=dominant

Species	Layer				Sample	Species	Layer				Sample
	1	2	3	4			1	2	3	4	
wh. elm	R	O				Smooth brome					A
scotts pine	R					tall goldenrod					O
green ash	R					teasel					R
hawthorn sp.	R					Elymus repens					O
red osier dogwood			K			Canada goldenrod					A
common apple	K					lanceleaf aster					A
common buckthorn	O	K				N.E. aster					O
red cedar	K					Festuca arundinacea					O
river grape				R		Poa pratensis					O
						bitter nightshade					O
						lamb's quarters					R
						Mentha arvensis					R
						Canada thistle					O
						Southwistle					R
						Common milkweed					R
						gray goldenrod					R
						curly dock					K
						early goldenrod					R

Wildlife and Other Notes

-watercourse flowing through meadow
 -lots of dead standing white elm

Wildlife Habitat Field Data Collection

Project Name: <u>Parkhill Interconnect</u>	Project #: <u>1341</u>	Area and/or Polygon ID: <u>W0D-04B</u>
Date: <u>Sept 16 2013</u>	Start Time: <u>11:25</u>	End Time: <u>12:15</u>
Weather Conditions: <u>14°C 100% CC, wind 2.</u>	Observers: <u>GKM, AMD</u>	

Indicate whether or not the following habitat features are present within the polygon. If Yes to any, fill in Page 2. Incidental Wildlife Observations on Page 2.

Habitat Features	Present		Information to Record on Page 2	
	Yes	No		
Water			Applicable to All:	
Spring Flooded Field	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Draw extent of all water if not indicated through ELC.	Longevity of site (if known, or estimate).
Vernal Pool	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Dimensions (length, width, and depth).	Sources of disturbance, current use, origin (natural or anthropogenic).
Pond	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Vegetation species, woody debris/basking logs within water.	Evidence of wildlife use including waterfowl, turtles, amphibians
Shallow Marsh (MAS) or Open Water	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of fish	
Swamp	<input type="checkbox"/>	<input checked="" type="checkbox"/>	All Swamps: Always search for Heron Nest Bowls. Record if active (April-June only) - Evidence includes egg shells, guano, dead young. Map colony/nests if found.	

Habitat Features	Present		Information to Record on Page 2	
	Yes	No		
Fields			Applicable to All:	
Non-rotational Hay or Weakly Grazed Pasture	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Height of vegetation	Size of site
Meadow	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Evidence of small mammals <u>no</u> <u>yes</u>	Frequency and source of disturbance <u>intd.</u> Abundance of nectar-producing plants (e.g. goldenrods and asters)
Thicket, Woodland, Hydro Corridor	<input type="checkbox"/>	<input checked="" type="checkbox"/>		Adjacency to forest and forest size <u>no</u> Location and abundance of raptor perches (scattered trees, snags, fenceposts)

Habitat Features	Present		Information to Record on Page 2	
	Yes	No		
Substrate and Topography				
Sand or Fine/Loose Gravel	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Evidence of use (turtles in or near the area, turtle tracks, raided nests). Proximity to Shallow Marsh (MAS) or Open Water	
Banks, Steep Slopes, Sand Piles	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Count swallow nest holes and indicate location. Estimate number of breeding pairs. Sources of disturbance. Draw extent if not indicated through ELC.	
Cliffs	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Height of cliff. Rock type. Presence of ledges or crevices and their size. Draw extent of cliffs if not indicated through ELC.	
Karst	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Depth of crevices	
Cave	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Depth of cave, bedrock type	
Natural Rock Piles / Talus Slopes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Age, Rock/soil type. Draw extent of talus slopes if not indicated by ELC. Adjacency to large water body with productive fish population (otters).	
Exposed Unvegetated Lake/River/Wetland Edge	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Source of disturbances. Presence of shorebird food sources (snails, worms, clams, insects). Percent vegetation cover. Distance to a Great Lake.	
Seeps or Springs	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Ecosite. Number or area of extent. Presence of indicator plants. Iron staining. Water temperature. Degree and length of slope. Soil types	
Islands or Peninsulas in Open Water	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Natural or artificial. Record any gulls or terns observed. Draw extent of island or peninsula if not indicated through ELC.	

Habitat Features	Present		Information to Record on Page 2	
	Yes	No		
Anthropogenic Features			Applicable to All:	
Abandoned Mine Shaft	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Age	Depth into the ground
Old Rock or Debris Pile, Old Stone Fence	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Rock size <u>cobble</u>	Vegetation present <u>yes</u>
Abandoned Road or Rail Bed	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Evidence of Use	Amount of sun exposure (or direction the slope faces)
Abandoned Well	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Abandoned Wells Only: Presence and type of capping	Substrate composition (or bedrock type) <u>concrete, cobble</u>
Old Foundation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Abandoned Road or Rail Bed Only: Extent in the landscape. Connectivity to other natural features. Overhead vegetation cover.	Proximity to water and estimated subterranean influence or potential for winter water fluctuation.

Habitat Features	Present		Information to Record on Page 2	
	Yes	No		
Burrows or Dens			Applicable to Mammal Burrows or Dens:	
Small - Rodent or Snake	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Diameter of entrance	Soil Type
Medium	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Ecosite of location	Proximity to water and type of water
Large	<input type="checkbox"/>	<input checked="" type="checkbox"/>		Availability of aquatic vegetation or fish
Log Jams, Old Beaver Lodges	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Adjacency to large water body with productive fish population. Evidence of otter (observed, tracks, scat, predated fish, turtles, eggs, frogs).	Evidence of use, or tracks or digging marks
Crayfish Chimney (7E only)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Ecosite of location. Soil type. Source of site moisture (meadow marsh, creek/river edge, swamp etc).	

Habitat Features	Present		Information to Record on Page 2	
	Yes	No		
Evidence				
Extensive Browse and/or Ungulate Scat	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Vegetation species browsed. Ecosite. Other evidence of ungulate use. Presence of seeps/springs. Barriers to movement to and from the area	
Nest Bowl or Stick Nest (herons or raptors)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Quantity. Ecosite of location. Evidence of use. Species if known or bird group. Size. Height in tree. Tree species.	

Habitat Features	Present		Information to Record on Page 2	
	Yes	No		
Outstanding Trees				
Large DBH, Outstanding Tall Snag	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Tree species. Evidence of perch usage or nesting. DBH, height. Exposure above canopy. Distance from surrounding forest (m) or within.	
Large DBH Cavity Tree (Live or Dead)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Tree species. DBH. Number of cavities. Size and type of cavities. Evidence of use by bats (abundant guano) or other mammals or wood ducks.	

Habitat Features	Present		Information to Record on Page 2	
	Yes	No		
Rare Communities or Species				
Old-Growth Forest	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Average age of trees. Range of DBH or prism sweep. Sources of disturbance (includes presence of exotics).	
Tallgrass Prairie or Savannah	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Soil type. Percent cover of trees, shrubs, forbs, and grasses. Sources of disturbance (includes presence of exotics).	
Bog	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Soil type and depths.	
Red Spruce or White Oak Forest	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Soil type and drainage regime. DBH range or prism sweep. Approximate Canopy Cover. Source of disturbance or evidence of forestry.	
Coastal Marshes (Great Lakes/Shallow Atlantic)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Substrate type (bedrock or soil type). Water level. Evidence of water fluctuation. Presence of Beaver Pond. Amount of exposed shoreline.	
Dunes / Beaches / Bars / Ridges	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Soil or substrate type. Sand class. Sources of disturbance (includes presence of exotics). Percent cover of trees, shrubs, forbs, and grasses.	
Sand Barren	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sand class. Sources of disturbance (includes presence of exotics). Percent area of exposed rock, vegetation, and sand. Sources of erosion or fire.	
Alvar	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Bedrock type. Soil type and depth. Percent area of exposed rock and vegetation. Sources of disturbance (includes presence of exotics).	
Rare Species (Not Species At Risk)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Number of individuals and locations. Ecosite or Vegetation Type.	
Rare Vegetation Community	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sources of disturbance (includes presence of exotics).	

Characteristics of Identified Wildlife Habitat

Date: Sept. 16, 2013

Project Name: Parkhill Project #: 1341 Area and/or Polygon ID: W00-048

Indicate the location of the habitat feature on the Field Map.

Identified Habitat Feature	# Observed	UTM(s)	Photo Numbers	Habitat Details (refer to Page 1)	Associated Wildlife Observed and Evidence
meadow	1	see proj data form	100-0161 to 100-0163	Whole polygon is meadow, limited disturbance	1
old rock pile	1	17T- 0441657 4776300	100-0164	old concrete + cobble from farmers field.	not big enough for candidate snake hibernacula

TY	Species	EV	#	Notes	TY	Species	EV	#	Notes
M	Cottontail	OK	1	observed scampering					

Faunal Type Codes (TY) B=Bird M=Mammal H=Herpetofauna L=Lepidoptera F=Fish D=Dragonfly or Damselfly	Evidence Codes (EV) Breeding Birds H- Suitable Habitat S- Singing Male P- Pair T- Territory D- Courtship Display	V- Visiting Nest A- Anxiety Behavior N- Nest Building (not wren or woodpecker) NB- Nest Building (not wren or woodpecker) DD- Distraction Display	NU- Used nest FY- Fledged Young NE- Nest with eggs NY- Nest with young AE-Adult entering/leaving nest	Other Wildlife OB- Observed DP- Distinctive Parts TK- Tracks VO- Vocalization HO- House/Den	FE- Feeding Evidence CA- Carcass/Bones FY- Eggs or young SC- Scat SI- Other Signs (Specify)
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