

Appendix B

Tables

Table 2.1 Records Review- Species of Conservation Concern

Common Name	Scientific Name	S-Rank	Provincial Status (COSSARO)	National Status (COSEWIC)
Blue-tipped Dancer	<i>Argia tibialis</i>	S3	---	----
Paw Paw	<i>Asimina triloba</i>	S3	---	----
Virginia Bugleweed		S3	---	----
Pumpkin Ash		S2	---	----
Blue Ash	<i>Fraxinus profunda</i>	S3	Special Concern	Special Concern
Green Dragon	<i>Arisaema dracontium</i>	S3	Special Concern	Special Concern
Many-fruit False-loosestrife	<i>Ludwigia polycarpa</i>	S2/S3	---	----
Puttyroot	<i>Aplectrum hyemale</i>	S2	---	----

S1 - Critically Imperiled

S2 - Imperiled

S2S3 - Imperiled to vulnerable

S3 - Vulnerable

S4 - Apparently secure

S5 - Secure

S1B - Critically imperiled and breeding

SZB - Breeding migrants/vagrants

SZN - Non-breeding migrants/vagrants

? - Rank uncertain

SRF - reported falsely from Ontario

Source: 1- Natural Heritage Information Centre (NHIC). 2008. Species Query. Accessed July 2010. Available: <http://nhic.mnr.gov.on.ca/MNR/nhic/queries/geographic.cfm>.

2 - Environment Canada. 2007. Endangered, Threatened, and Special Concern Species. Reviewed July 2010. Available online at: http://www.sis.ec.gc.ca/ec_species/ec_species_e.phtml

Table 3.1 Brooke-Alvinston Study Area Site Investigation Record

Survey Date	Survey Type	Completed By	Time	Weather Conditions*
July 26, 2010	Ecological Land Classification and vegetation survey, Wildlife Habitat Assessment (reptile, bat and amphibian features)	Andrew Taylor, Stantec	11:30- 16:00	29°C with a wind of 2 5% cloud cover with no precipitation

* Wind conditions expressed using Beaufort Scale:

0 - calm, <2km/hr

2 - light, 7-12 km/hr

4 - moderate, 20-30 km/hr

6 - strong, 41-51 km/hr

1 - light, 2-6 km/hr

3 - moderate, 13-19 km/hr

5 - fresh, 31-40 km/hr

Table 3.2 Summary of Corrections to Records Review

Feature	Records Review	Correction made as a result of site investigation
Wetlands	None identified	None
Woodlands	3 small isolated woodlands identified within Study Area	None
ANSIs	None identified	None
Valleylands	St.Clair Region Conservation Authority regulation limits extend to within 120m of project location	No valleylands present in the project location
Wildlife Habitat: Seasonal Concentration Areas	Potential reptile hibernacula	Project location does not support this function
Wildlife Habitat: Migration Corridors	Linear hedgerows present within Study Area	Project location does not support this function
Wildlife Habitat: Rare Vegetation Communities	None identified	None
Wildlife Habitat: Specialized Habitats	None identified	None
Wildlife Habitat: Species of Conservation Concern	Historic records of 8 species (see Table 2.1)	Project location does not support these species

Table 3.3 Ecological Land Classification (ELC) Vegetation Types

ELC TYPE	Community Description
Forest (FO)	
Deciduous Forest (FOD)	
White Ash Deciduous Forest FOD4-2	A managed woodland community that was dominated by white ash. This community type occurs in two locations within the Study Area. In the south-central woodlot, the white ash forest had elements of shagbark hickory and white elm. In the eastern woodlot the hickory and elm were replaced by sugar maple and beech. The lesser elements are likely representative of the historic composition of the woodlots prior to influences by forest management. Understorey of the both FOD4-2 woodlots contained young ash, shagbark hickory and elm trees as well as chokecherry. Virginia knotweed, garlic mustard, enchanter's nightshade, poison ivy and red raspberry were in the ground layer.
Black Walnut Lowland Deciduous Forest FOD7-4	This community had experienced extensive logging, resulting in an open canopy. The canopy was dominated by black walnut with bur oak and white elm. White ash, although rare in the canopy, was regenerating and present in the understorey. Other understorey species included chokecherry and spicebush. Ground layer contained poison ivy, red raspberry and enchanter's nightshade.
Shagbark Hickory Deciduous Forest FOD9-4	This community type occurred in two locations within the Study Area. In the northern woodlot, this community had experienced logging, resulting in a canopy cover of approximately 60%. As a result of the open canopy, the understorey was very dense, dominated by European buckthorn, grey dogwood and saplings of shagbark hickory and white elm. In the southern woodlot, this community types had not been as extensively managed, resulting in full canopy and less dense understorey. In both FOD9-4 communities, the shagbark hickory was the dominant canopy species with white ash and white elm.
Swamp	
Deciduous Swamp (SWD)	
Swamp Maple Mineral Deciduous Swamp SWD3-3	The canopy was dominated by mature swamp maple with very little red ash. European buckthorn was the predominant species in the understorey. However, shagbark hickory saplings were also relatively common. Ground cover consisted of river-bank grape, red raspberry and forbs such as fleabane. Pools of standing water were present, but it is likely that the majority of the community floods in the spring.

Table 3.4 Site Investigation-Assessment of Species of Conservation Concern

Common Name	Scientific Name	S-Rank	Provincial Status (COSSARO)	National Status (COSEWIC)	Habitat Preference	Brooke-Alvinston Study Area
Blue-tipped Dancer	<i>Argia tibialis</i>	S3	---	----	Within its Ontario range, typically found along shaded streams.	No suitable habitat present. Species not observed during field investigations.
Paw Paw	<i>Asimina triloba</i>	S3	---	----	Floodplains or moist woodlands	Field investigations did not detect this species.
Virginia Bugleweed	<i>Lycopus virginicus</i>	S3	---	----	Wet places, low woods and thickets	Field investigations did not detect this species.
Pumpkin Ash	<i>Fraxinus profunda</i>	S2	---	----	Wet swamps and bottomlands.	No swamp habitat within 120m of the project; site investigations did not detect this species.
Blue Ash	<i>Fraxinus profunda</i>	S3	Special Concern	Special Concern	Floodplains and limestone outcrops.	No suitable habitat present. Species not observed during field investigations.
Green Dragon	<i>Arisaema dracontium</i>	S3	Special Concern	Special Concern	Damp woods.	Field investigations did not detect this species.
Many-fruit False-loosestrife	<i>Ludwigia polycarpa</i>	S2/S3	---	----	Wet areas including swamp, marshes and wet prairies.	No swamp habitat within 120m of the project; site investigations did not detect this species.
Puttyroot	<i>Aplectrum hyemale</i>	S2	---	----	Rich woods, especially sugar maple beech with deep humus layer	Last NHIC occurrence is >100 years ago. Not observed during field investigations. Disturbed woodlots within Study Area not suitable for this species.

S1- Critically Imperiled
S2 – Imperiled
S2S3 – Imperiled to vulnerable
S3 – Vulnerable
S4 – Apparently secure
S5 – Secure

S1B – Critically imperiled and breeding
S2B – Breeding migrants/vagrants
S2N – Non-breeding migrants/vagrants
S2Z – Rank uncertain
S2R – reported falsely from Ontario