



# NATURAL RESOURCE SOLUTIONS INC.

Aquatic, Terrestrial and Wetland Biologists

## TARA M. BRENTON, B.Sc. TERRESTRIAL AND WETLAND BIOLOGIST

### EDUCATION

- Bachelor of Science, Honours, Ecology (2004), University of Guelph, Guelph, Ontario

### CERTIFICATIONS

- OMNR Ontario Wetland Evaluation Training Course, 2009
- OMNR Butternut Health Assessor, 2009
- Introductory Bioengineering Course, 2009
- Erosion & Sediment Control Course, 2009
- Certified Arborist, International Society of Arboriculture, February 2009
- OMNR Ecological Land Classification System for Southern Ontario, 2008
- RX – 100 Fire Fighter Training Course, 2008

### AREAS OF PROFESSIONAL EXPERIENCE

Tara is a Terrestrial and Wetland Biologist with five years experience working on a variety of environmental projects. She routinely completes natural area inventories, vegetation community mapping, and surveys of reptiles, amphibians, plants, mammals, breeding and migrating birds. Tara has worked in a variety of sensitive and rare habitats and is capable of addressing potential threats, identifying conservation targets, and recognizing potential habitat for rare species.

Tara provides expertise in the following areas:

- inventories of wetland and terrestrial biological resources.
- identification of significant and sensitive natural areas and species.
- analysis of interrelations between biological and physical components of ecosystems.
- analysis of environmental impacts on wetland and terrestrial resources.
- management plans for significant species and habitats.
- rehabilitation of disrupted habitats.

#### *Terrestrial Ecosystems Studies*

Tara's primary area of expertise is the assessment of terrestrial ecosystems. She routinely conducts inventories of reptiles, amphibians, mammals, vascular plants, and breeding birds. Tara has applied the Ecological Land Classification on many projects in southern Ontario. Tara is experienced with aerial photographs and community mapping.

Tara's specific expertise includes:

- field and laboratory identification of plants in Ontario.
- mapping of terrestrial vegetation communities.
- short and long-term monitoring of natural habitats.
- identification of conservation targets and threat assessment.
- design and coordination of vegetation surveys in natural and wilderness areas.
- design and implementation of restoration plans.
- development of conservation and management plans.

*Woodlot and Forestry Studies*

Tara is a Certified Arborist with two years of experience evaluating trees and treed ecosystems in wilderness, rural and urban environments. She integrates information on tree ecology and biology, soils, herbaceous flora and wildlife when evaluating areas to determine preservation priorities, significance and sensitivity disturbance.

Tara's specific expertise includes:

- woodlot and tree inventories, mapping, evaluations and management plans.
- tree saving and preservation plans.
- evaluation of impacts.
- tree planting and forest restoration plans.

*Wildlife Studies*

Tara specializes in birds and has extensive experience conducting bird point count surveys, migration monitoring, and breeding bird surveys. She also specializes in amphibians, specifically amphibian call surveys and salamander surveys. Tara has worked closely with the Ministry of Natural Resources to develop comprehensive monitoring programs to identify the presence and/or absence of mole salamanders within project sites. She has working experience with herpetofauna, mammals, butterflies, and dragonflies.

Tara's specific expertise includes:

- strong visual and auditory identification skills for surveying herpetofauna and birds.
- field surveys and acoustic call analysis of bats.
- identification and design of habitat for sensitive species.
- development of mitigation plans to identify, protect and enhance wildlife habitat.
- impact analysis and the development of management plans.

*Wetland Studies*

Tara has participated in numerous wetland studies in southern and northern Ontario and assisted in the completion of many Environmental Impact Studies involving the collection and review of background information, field studies, and analysis of impacts and mitigation measures.

Tara's specific expertise includes:

- inventories and mapping of wetland flora, fauna and soils.
- wetland management, preservation, restoration and creation.
- analysis of wetland buffers/setbacks.
- monitoring of wetland systems.

**EMPLOYMENT HISTORY****Terrestrial / Wetland Biologist**

Natural Resource Solutions Inc, Waterloo, Ontario

2005 to present

**Field Assistant Trainee**

EARTHQUEST Biological Field School, London, Ontario

2005

**Naturalist**

Pacific Whale Foundation, Maui, Hawaii

2004

**PUBLICATIONS**

Dailey, T. and E. Gosnell. 2006. Long-term Multifaceted Environmental Monitoring Program at RIM Park, Waterloo, Ontario. *EMAN National Science Meeting 2006*. Winnipeg, Manitoba.

