

**ONTARIO WATERPOWER
ASSOCIATION – REQUEST FOR
QUALIFICATIONS**

SPECIES EXPERTISE
REGULATION 242/08

Endangered Species Act



September 30, 2013

ONTARIO WATERPOWER ASSOCIATION – REQUEST FOR QUALIFICATIONS

Species Expertise – Regulation 242/08 – Endangered Species Act

October 11, 2013

| Andrew Taylor B.Sc., Ecologist | | | |
|--|---|---|----------------------------------|
| Species name | Individual Name | Contact Information | Member of Waterpower Association |
| Turtles (e.g. Blanding’s Turtle, <i>Emys blandingii</i>) | Andrew Taylor andrew.taylor@stantec.com | Stantec Consulting Ltd 70 Southgate Drive, Suite #1 Guelph ON N1G 4P5 Phone: (519) 836-6966 Fax: (519) 836-2493 | ✓ |
| Dragonflies (e.g. Rapids Clubtail, <i>Gomphus quadricolor</i>) | | | |
| Description of Expertise & Experience | | | |
| Relevant Species / Grouping of Species for which they seek to be recognized as a subject matter expert (max 100 words) | | | |
| <p>Through his career, Andrew has gained extensive experience with both turtles and dragonflies.</p> <p>He has conducted habitat assessments and surveys for turtle species at risk at several sites throughout southern and central Ontario. Through these projects, Andrew has specific experience with Blanding’s, Spotted, Snapping, Midland Painted, Spiny Softshell, Map, Wood and Musk Turtles. He has particular experience with Blanding’s Turtle, including a habitat use research study in Prince Edward County.</p> <p>Through his experience with Stantec and with NGO’s, Andrew has completed dragonfly inventories at several sites across southern Ontario, including a habitat assessment for Rapids Clubtail along the Credit River.</p> | | | |
| Development and implementation of mitigation, effects monitoring and effectiveness monitoring plans (max 100 words) | | | |
| <p>Andrew has completed impact assessments and developed mitigation measures for species at risk for numerous projects across Ontario from multiple sectors. He has experience preparing permit applications under the Endangered Species Act (ESA), including developing mitigation and overall benefit measures. Andrew has also registered projects under Regulation 242/08, and has developed the associated Mitigation Plans.</p> <p>Andrew also has experience implementing ESA Permit conditions including conducting monitoring programs to measure the effects of the project activities as well as the effectiveness of the mitigation and overall benefit measures.</p> | | | |
| Hydroelectric Sector (max 100 words) | | | |
| <p>Andrew has acted as the senior wildlife technical lead on hydro power projects. Specific project experience includes Locks 24 and 25 Hydro Development, a 4MW project on the Otonabee River in southern Ontario. The project included a field program and technical reporting on vegetation and wildlife. In particular, the project addressed impacts and mitigation to Map Turtle and Blanding’s Turtle. Andrew’s project experience also includes the Yellow Falls Generation Station, a proposed 16MW project on the Mattagami River in northern Ontario. The project included an extensive field program of wildlife monitoring and technical reporting.</p> | | | |

Andrew is a knowledgeable terrestrial ecologist with strong technical skills in vascular plants, birds, bats, breeding amphibians (calling frogs and toads), breeding salamanders (adult and egg studies), reptiles and insects. Specifically, Andrew is knowledgeable about life history and survey techniques of Ontario turtles and dragonflies.

He has extensive experience with policies, field studies and permitting requirements pertaining to species at risk under both the Endangered Species Act and Species at Risk Act. Andrew has prepared numerous impact assessments and mitigation plans for species at risk. He has provided terrestrial ecology expertise in a wide range of sectors, including urban lands, energy (including hydropower), recreational development, infrastructure and aggregate extraction. He has appeared as an expert witness in front of Boards and Tribunals including the Environmental Review Tribunal.

EDUCATION

B.Sc. (Hons), University of Guelph / Environmental Toxicology, Guelph, Ontario, 2001

Certificate, Ecological Land Classification for Southern Ontario, Turkey Point, Ontario, 2006

PROJECT EXPERIENCE

Species at Risk- Turtle and Dragonfly Experience

Dufferin Aggregates Acton Quarry Extension, Acton, Ontario (Terrestrial Ecologist)
Field surveys, impact assessment and mitigation for Bobolink, Eastern Meadowlark, Barn Swallow, Golden-winged Warbler, Whip-poor-will, Hooded Warbler, Jefferson Salamander, Eastern Milksnake, West Virginia White, American ginseng, Butternut.

Alderville First Nations Black Oak Savannah*, Alderville, Ontario (Terrestrial Ecologist)
Tallgrass prairie and black oak savannah research program, including extensive dragonfly inventories. Habitat creation for the reintroduction of the Karner Blue butterfly.

Henvey Inlet Wind Farm, French River, Ontario (Terrestrial Ecologist)
Conducted surveys to identify habitat and presence of turtle species at risk including Blanding's Turtle, Spotted Turtle, Snapping Turtle and Musk Turtle.

Churchville Development, Brampton, Ontario (Terrestrial Ecologist)
Conducted Rapid Clubtail assessment along the Credit River.

Ostrander Wind Energy Park, Prince Edward County, Ontario (Terrestrial Ecologist)
Conducted surveys for SAR protected under the provincial Endangered Species Act (2007), including research and mitigation plans for the Blanding's Turtle.

MTO Highway Improvement, Various Projects, Ontario (Terrestrial Ecologist)
Prepared SAR inventories and mitigation plan for various species at risk including Snapping Turtle, Blanding's Turtle, Spiny Softshell Turtle and Wood Turtle.

Rice Lake Plains Joint Initiative*, Nature Conservancy of Canada, Northumberland County, Ontario (Ecologist)
Tallgrass prairie research program. Conducted inventories for rare and at risk species including reptiles and dragonflies

Second Marsh, FarmTech Ethanol Plant, Whitby, Ontario (Terrestrial Ecologist)
Conducted SAR surveys for Least Bittern, King Rail, Chimney Swift, Common Nighthawk, Blanding's Turtle.

Hydroelectric Power

Locks 24 and 25 Hydro Development, Lakefield, Ontario (Terrestrial Ecologist)
Completed technical reports for a hydro power project on the Otonabee River including impact assessment and mitigation for Map Turtle and Blanding's Turtle.

Yellow Falls Hydroelectric Project, Smooth Rock Falls, Ontario (Terrestrial Ecologist).
Completed technical reports on vegetation and wildlife for this project on the Mattagami River.

* denotes projects completed with other firms