

**Exhibit CS-DB-5**

*Resume of Allan Thompson*

## EDUCATION

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University of Montana. Missoula, Montana. May, 2004.  
B.S. Wildlife Biology, School of Forestry and Conservation.

## CERTIFICATION AND LICENSURE

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- |                                              |                    |
|----------------------------------------------|--------------------|
| • Certified Wildlife Biologist®              | March 2012-Present |
| • Bat Biologist, eligible for survey permits | November 2017-2020 |
| • Vermont Licensed Forester                  | May 2016-Present   |

## RELATED WORK EXPERIENCE

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Wildlife Biologist and Forester, Owner, January 2007-present  
Northern Stewards LC, Waterbury, VT

- |                                                                         |                                                                           |
|-------------------------------------------------------------------------|---------------------------------------------------------------------------|
| • Forest and wildlife planning on over 15,000 acres                     | • Habitat assessments and inventories                                     |
| • Designing and overseeing all timber and habitat management operations | • Clients include private, State and municipal landowners and/or managers |
| • Wildlife monitoring using track and camera surveys                    |                                                                           |
| • Wildlife inventories on lands throughout VT Specifically;             |                                                                           |
| o Bat surveys, mist netting and acoustic; 2007-present                  |                                                                           |
| o Bird Surveys                                                          |                                                                           |

Environmental Assistant, May- November 2006.  
Vermont Dept. Fish and Wildlife. Rutland, VT.

- Assist in all aspects of Indiana bat (*Myotis sodalis*) surveys. Conduct capture, acoustic, roost tree, and hibernacula surveys. Managed and analyzed data, and prepared reports.

Wildlife Assistant, Field Seasons 2005 -2007.

Keeping Track Inc. Huntington, VT

- Assist classes teaching stewardship of wildlife habitat as taught by Susan C. Morse.

Assistant for project studying roads and wildlife, April-November 2005.

University of Massachusetts. Bennington, VT.

- Organized and conducted small mammal and amphibian, and reptile surveys.
- Developed and tested track beds, track plates, and cameras to observe wildlife use of underpass.

Amphibian and Reptile Mark/Recapture Field Crew Member, Summer 2003 and 2004 into Winter 2005.

University of Montana. Missoula, MT.

- Herpetile research and sampling in primitive study sites.
  - Undergraduate thesis; *Garter Snake Population Dynamics and Diet in Two Watersheds with Differing Amphibian Abundance*.
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Department of Fish and Wildlife  
Department of Forest, Parks and Recreation  
Department of Environmental Conservation  
State Geologist  
Natural Resources Conservation Council

Vermont Department of Fish and Wildlife  
271 North Main St, Suite 215  
Rutland, VT 05701-2423  
Tel: (802) 786 - 0098  
FAX: (802) 786 - 3870

**NOTIFICATION OF ELIGIBILITY STATUS**

**VERMONT THREATENED AND ENDANGERED SPECIES PERMIT  
THREATENED AND ENDANGERED BAT SURVEYS**

Business Name: Northern Stewards, LC

Business Address: 224 Michigan Ave, Waterbury, VT 05676

Notification Date: November 20, 2017

Eligibility Status of Personnel:

| Personnel      | Eligibility Status | Conditions                  |
|----------------|--------------------|-----------------------------|
| Allan Thompson | Eligible           | Apply for permits as needed |
|                |                    |                             |
|                |                    |                             |

Comments: Allan Thompson meets all the eligibility requirements for conducting threatened and endangered bat surveys in the state of Vermont.

Period of Eligibility Status: November 20, 2017 to November 20, 2022.

Approved and Conditional Approval eligibility statuses merely demonstrate that the individuals or contractors have the necessary skills and experience to conduct work on Indiana bats in Vermont. A separate Vermont Endangered and Threatened Species Permit is still necessary for each proposed activity that may involve the capture, handling, or collection of Indiana bats in the state. Such permits do not usually exceed one year in duration.

It must be noted that Approved and Conditional Approval eligibility status **does not ensure that the individuals or contractors shall receive an Endangered and Threatened Species Permit for a proposed activity.**

  
Alyssa Bennett, Small Mammals Biologist

20 Nov 2017  
Date

## Bat Survey Experience

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### **Vtrans (subconsultant for McFarland Johnson)**

Jed Merrow Project Manager

McFarland Johnson

603-225-2978

jmerrow@mjin.com

#### **Bat Acoustic surveys 2014-2017 using Interim or final survey guidance (2014-2017)**

1. Johnson Bridge Acoustic survey (2017), Bridge inspection and roost surveys. I conducted 7 nights of acoustic surveys, analyzing ~200 high frequency files. Little brown and big brown bats were observed.
2. Berlin, Bridge Acoustic survey and report (2016). I conducted 7 nights of recording and analyzed 750 calls to species. Little and big brown bats observed.
3. South Burlington Acoustic survey and report (2016). I conducted 6 nights of recording and analysed 1250 calls to species.
4. Morrisville Rte 15 Acoustic survey and report (2016). I conducted 6 nights of recording and analyzed over 850.
5. Orwell Bridge Acoustic survey and report (2016). I conducted 7 nights of survey and analyzed over 1750 calls including Indiana bats.
6. Rockingham Rail Acoustic analysis and report (2016). I completed qualitative analysis of acoustic surveys completed by another contractor. Findings include little brown and red bats.
7. Newport Acoustic Survey and report (2016). I conducted 7 nights of survey and analyzed over 850 calls. Findings include the northern long-eared and little brown bats.
8. Stowe Bridge Acoustic survey and report (2015). I conducted 6 nights of recording and analyzed 500 calls to species and prepared associated report. Findings include little brown, red and eastern small footed bats
9. Rockingham Bridge Acoustic survey and report (2015). I conducted 12 nights of recording and analyzed over 5000 calls to species and prepared associated report. Findings of note include little brown, eastern small footed and tri-colored bats
10. Searsburg Bridge Acoustic survey and report (2015). I conducted 12 nights of recording and analyzed over 3000 calls to species and prepared associated report. Findings of note include little brown, eastern small footed and red bats
11. Newport Airport acoustic survey and report (2015). I used two SM2 detectors to survey for bats during 4 summer nights each. I recorded and analyzed (all manually vetted) 316 bat passes. Passes are ID to species where possible with detailed acoustic characteristics. I prepared a detailed acoustic report of findings. Findings of note include little brown and possible northern long-eared.

**NHDOT (subconsultant for McFarland Johnson)**

Jed Merrow Project Manager

McFarland Johnson

603-225-2978

jmerrow@mjincc.com

- Bat Qualitative analysis for NH road projects. Reviewed the analysis of 200 high frequency files performed by McFarland Johnson.
- Bat qualitative analysis and reports 2015-2016. Surveys completed by another contractor and data shared with Northern Stewards to provide qualitative analysis and reports.
  1. Walpole-Charlestown: I completed acoustic analysis of high frequency files collected in New Hampshire road projects.
  2. I-93-H: I completed acoustic analysis of high frequency files collected in New Hampshire road projects. Confirmed northern long-eared bat
  3. I-93-I: I completed acoustic analysis of high frequency files collected in New Hampshire road projects.
  4. I-93-D: I completed acoustic analysis of high frequency files collected in New Hampshire road projects.

**New Hampshire National Guard**

Arin Mills, CIV

Conservation Specialist

NH Army National Guard

603-227-1460

Arin.j.mills.nfg@mail.mil

- **2013 Bat Acoustic Monitoring:** Strafford Training Site (2013)
  - I used two SM2 detectors to survey for bats during 40 summer nights each. I recorded and analyzed (all manually vetted) 8700 bat passes. Passes are ID to species where possible with detailed acoustic characteristics. I prepared a detailed acoustic report of findings. Findings of note include little brown bats and tri-colored bats.

**Vermont National Guard**

Mike O'Hara Military Lands Administrator

State of Vermont Military Dept.

802-338-3316

Mike.ohara@state.vt.us

- **Bat Acoustic Monitoring (2007-2016)**
  - I have conducted over 6 years of acoustic surveys during ~250 acoustic survey nights. I use the Pettersson SM2 and SM3 acoustic recorders. During these surveys, I have analyzed over 40,000 bat passes (all manually vetted) and prepared reports detailed acoustic characteristics. The 2015 surveys used northern long-eared bat survey guidance for survey protocols. I prepare annual reports of findings. During the last 7 years I have documented little brown, northern long-eared and eastern small footed bats, among others.
- **Bat Trapping (2007-2016)**
  - I have conducted over 6 years of trapping surveys during 75 survey nights. I use 4-8 net sets to survey bats in a variety of environments. I have conducted telemetry on 4 little

brown bats. I regularly prepare reports of findings. Findings of note include little brown, eastern small footed and northern long-eared bats.

#### **Town of Hartford, VT**

Matthew J. Osborn, Town Planner

Town of Hartford

802-295-3075

mosborn@hartford-vt.org

- **Bat Acoustic Monitoring (2011)**

- I used two SM2 detectors to survey for bats during 20 summer nights each in 2011. I recorded and analyzed (all manually vetted) 1200 bat passes. Passes are ID to species where possible with detailed acoustic characteristics. I prepared a detailed acoustic report of findings. Findings of note include little brown bats and tri-colored bats.

#### **Vermont Fish and Wildlife Employee (2006)**

Contact Scott Darling VT Fish and Wildlife Dept

271 North Main Street Suite 215

802-786-3862

[Scott.darling@vermont.gov](mailto:Scott.darling@vermont.gov)

- As a VTFWD employee, I assisted Scott Darling in all aspects of Indiana bat inventories. Activities included trapping using mist nets and Harp traps, telemetry and applying transmitters, and conducting exit counts on known roosts, and acoustic inventories. Became familiar with all nine species of Vermont bats including acoustic repertoire.

#### **Additional Volunteer**

- In conjunction with Vermont Fish and Wildlife, I participated in the 2015 Aeolus Cave (Dorset, VT) trapping and inventory projects. During this effort, I handed over 50 little brown bats from Harp traps and recorded observations.
- In conjunction with Vermont Fish and Wildlife, I erected 4 SM3 acoustic monitors at the Johnson Talc Mine in Fall 2015-2016, having not been surveyed before. Preliminary acoustic analysis shows little brown and northern long-eared bats in late fall days, presumably using the mine. Other species of note include big brown and red bat during October 2015 close to the mine entrance.

#### **Bat Conservation and Management Acoustic Data Training**

I attended a 2015 acoustic program. Highlights include learning about acoustic species identifiers, classifying programs and pitfalls, and data management.  
bats.