

Curriculum Vitae

Mark David Thompson

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Prince George, BC

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Professional Ecologist and Project Manager

Mark Thompson is a motivated and professional biologist (R.P. Bio. – 2489 / P. Biol. – 2577 / CPESC - 9347) who specializes in herpetology and is seeking career opportunities in the field of natural resource management including research, conservation, management, and education. He is the president of the BC Association of Professional Biology and an adjunct faculty member with the UNBC Ecosystem Science and Management. Mr. Thompson is knowledgeable about wildlife management, study design, and project management. He is the Senior Ecologist for EcoLogic Environmental Consulting. Mr. Thompson's has worked in senior management as an operations manager for a mid-sized environmental, forestry, and engineering based consulting firm in Fort St. John BC. His scope of responsibilities included everything from managing staff, organizing schedules, tracking budgets, invoicing clients, and writing proposals for large contractors. Mr. Thompson has used his transferable skills in ecological statistics, study design, GIS based habitat modelling, and genetics to manage projects covering a wide range of topics including development of a provincial restoration framework for ungulates, animal vehicle collision hotspot and mitigation, and ecotoxicology of road salts, herbicide overspray, and fertilizers (ammonia, nitrogen, nitrates, and nitrites).

Education

M.Ed. 2012 UNBC Multidisciplinary Leadership, Amphibian Ecoliteracy Education

M.Sc. 2003 University of Calgary, Department of Biology, Zoology

B.Sc. 1998 University of Northern British Columbia, Department of Biology, Wildlife Biology

Memberships and Associations

- EnviorCert Certified Professional in Erosion and Sediment Control (CPESC), 2019-present
 - BC College of Applied Biology, 2013-present
 - BC Association of Professional Biology, 2013-present: Vice President 2017, President 2018-present
 - Alberta Society of Professional Biologists, 2013-present
 - Partners in Amphibian and Reptile Conservation, 2013-present
 - Society for Northwest Vertebrate Biology, 2013-present
 - Canadian Herpetological Society, 2015-present
 - Society for the Study of Amphibians and Reptiles, 1998-present
 - American Society of Ichthyologists and Herpetologists 2000-2003, 2015-Present
 - British Herpetological Society 2017-Present
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Certificates

- Electrofishing Certified, 2013
- WCB Level 1 First Aid, 2019
- Accident Investigation, 2008
- S-100 Basic Fire Suppression – annual
- Class 4 Drivers License
- Sediment & Erosion Control
- Power System Safety Protection (PSSP), 2019
- Bear Awareness, annually
- WHMIS Training, annually
- ATV Operation & Safety
- Snowmobile Operation & Safety
- Firearms Safety
- Two-way Radio

Continuing Study

- Data Analysis in Ecology: Statistics for Ecologists & Field Biologists – Oxford University (Online Directed, 2018)
- Leadership: Managing Projects, Tasks and Deadlines Effectively, Canadian Training Resources (Certificate, 2017)
- Statistics and R - Applied Multivariate Statistics - University of Koblenz Landau (Online – CAB audited, 2016)
- Species occupancy estimation and modelling (Certificate received, taught by Darryl Mackenzie, May 2014)
- Amphibian sampling and salvage (Partners in Amphibian and Reptile Conservation, 2014)
- QGIS – Satellite data classification and spatial statistics – (Online – self directed since 2014)

Skills and Specialty

- Amphibian Ecology and Regulations
- Ecological Statistics using R and GIS
- Environmental Impact Assessment
- Aboriginal Liaison
- Stream and Wetland Classification
- Sediment & Erosion Control
- Quantum Geographic Information System
- Genetics & Molecular Ecology
- Wildlife and Fisheries Habitat Assessments
- Project Supervision and Management
- Conservation Biology and Management
- Environmental Monitoring

Project Management Experience with DWB (Abridged)

Mr. Thompson has been with DWB Consulting Services Ltd. (DWB) since September 2012. He became the Senior Research Ecologist taking on the responsibility of managing and supervising staff on any projects involving ecological research and management, including reclamation seeding growth trials, amphibian mitigation salvage, wetland design and study, amphibian population studies, research into forest fertilization effects on stream chemistry, road salt vulnerable areas identification using soil/water chemistry and GIS mapping of environmentally sensitive features, and wildlife collision studies of large mammals and amphibians. He served a 7-month as the operations manager in Fort St. John where he supervises staff, completes schedules, networks with clients, developed First Nations a policy and outreach program, met with indigenous leaders and peoples to discuss working relations, and managed all projects that come through the local office. He continues to provide a supporting role for Fort St. John operations from his base of operations in Prince George. The following list of abridged projects have been completed during Mr. Thompson's tenure with DWB.

North Arrow Minerals, 2019-present – Naujaat, Nunavut Community Trail – Senior Ecologist – Mr. Thompson has travelled to Naujaat, Nunavut to work with local Inuit to complete fish, wildlife, and ecosystem surveys along a proposed community trail development project. He worked with engineers in the field providing input on constructability in relation to potential erosion and sediment control management and environmental sensitivities. He met with community leaders and is working

on this project with the EcoLogic environmental team to further the investigations for wildlife monitoring and management with a particular focus on peregrine falcons, caribou, and arctic char.

Ascot Resources Ltd., 2019-present – *Premier Gold Mine Project – Senior Ecologist* – Mr. Thompson has travelled the coastal mountains of BC approximately 50 km north of Stewart to complete part of an environmental overview assessment for an open pit gold mine project. He completed amphibian, vegetation, and bird surveys as part of a senior field crew. He is specifically tasked with the development of an amphibian management plan and providing professional review and input into the wildlife management plan and other environmental management documents that will form the basis of the project permitting applications and development.

BC Hydro and Power Authority, 2019 – *Peace Kelly Capacitor Geotechnical Project – Senior Environmental Coordinator* – Mr. Thompson has been responsible for supervising and scheduling personnel to complete environmental baseline assessments for geotechnical drilling investigations, including bird nest sweeps, owl callback surveys, invasive plants, species at risk, wetland, and amphibian surveys. He has reviewed staff reports, trained staff on GIS for mapping, and provided key recommendations on survey methods and management.

Allteck Line Contractors, 2019 – *Site C Transmission Line – Qualified Environmental Professional* – Mr. Thompson is a project manager and has served as a Qualified Environmental Professional for this transmission line project that is managed through the Site C development. He has served as both a professional biologist and a CPESC for review of erosion and sediment control structures and mitigation. Mr. Thompson has scheduled DWB staff for training, completed full orientation for Site C and the contractor. He has completed wildlife (bird nest, amphibian, and den) surveys at site and also provided fire abatement surveys with a professional forester. He has been a prime point of contact with the client and is responsible for review of report submissions to BC Hydro and management of environmental personnel working under a Environmental Protection Plan.

Halfway River IDL, 2019– *Highway 29 Realignment Cache Creek – Qualified Environmental Professional* – Mr. Thompson is a project manager and has served as a Qualified Environmental Professional for this project that is managed as an extension of the Site C development. He has scheduled, managed, and supervised environmental staff from field and office. Mr. Thompson completed spruce grouse lek surveys, bird nest surveys, and submitted reports to BC Hydro on the status of the project along with management recommendations for the grouse lek. He continues to provide support to environmental field personnel, including review of their weekly reports and coordinating the logistics of schedules, field equipment as needed, and liaison with client and BC Hydro to ensure that all operations are meeting the requirements.

Williams Lake Community Forest, 2019 - *Forest Fertilization Program – Qualified Environmental Professional* – Provided guidance and mapping on the aquatic sampling plan for forest fertilization. Worked on team as the lead researcher. Conducted preliminary power analysis on sampling design and guidance on environmental chemistry study for ammonia, nitrate, nitrite, and other environmental parameters applicable to BC water quality guidelines for fish sensitive streams.

BC Ministry of Forests, Lands, and Natural Resource Operations, 2018 – 2019 – *Provincial Caribou Restoration Framework – Co-author* – Mr. Thompson co-authored and collaborated with a DWB MSc caribou biologists to produce a provincial framework document on caribou restoration. This work involved team-meetings with ministry staff, literature reviews, interviews with caribou biologists (academic and government scientists), mapping, illustrations, and professional writing. Mr. Thompson was involved in this project from start to finish.

Society for Ecosystem Restoration in Northern British Columbia, 2019 - *Whitesail Reach Caribou Calving Islands Rehabilitation – Project Manager* – Mr. Thompson is the manager of this caribou restoration project and a co-manager for a project involving road rehabilitation in the same geographic area. His involvement has included scheduling and assigning tasks to personnel, review and authorship on environmental planning documents, permitting, liaison with ministry personnel and Cheslatta Carrier Nations (CCN), development and supervision of public consultation session, and input on monitoring methods and techniques. This project is an extension of several years of previous engagement supervised by Mr. Thompson with CCN on the development of sustainable reservoir management plans.

Fish and Wildlife Compensation Program, 2015 – 2019 – *Amphibian and Wetland Connections* – *Project Manager* – Managed of a multi-year study on amphibian migration in relation to wetland and terrestrial habitats surrounding the Williston Reservoir. Research involved PIT tag telemetry, plot and transect surveys, morphometrics, habitat classification, habitat suitability modelling, spatial power analysis, QGIS, and ecological statistics. Statistical occupancy analysis was completed by Mr. Thompson. Partnership with Chu Cho Environmental (Tsay Keh Dene First Nations) and the Nak'azdli First Nations supplying field technicians. Scope also included community outreach initiatives as part of strategic conservation effort for amphibians in northern environments

Ministry of Forests, Lands, Natural Resource Operations, and Rural Development, 2018 – *Assistant Project Manager* – Mr. Thompson is the assistant project manager for the development of a provincial caribou restoration framework for restoration projects. He is working with a caribou specialist, the project manager, and providing review on all documents. He attends all meetings with government personnel, manages timelines and budgets, and is a co-author on the report that is near completion.

Tsilhqot'in National Government, 2019 – *Research Ecologist* – Mr. Thompson has worked with Mr. Doug Heard for the development of a stratified survey plan to complete aerial moose surveys in the Chilcotin MU5-03 and MU5-14. He provided GIS training to an assistant biologist to import and analyze provincial Vegetation Resource Inventory and satellite data for stratifying moose habitat. Mr. Thompson has provided GIS and statistical support for this project, developed budgets, and assisted with the coordination of the overarching project logistics.

Alberta Transportation, 2018– *Animal Vehicle Collision Investigations* – *Senior Research Ecologist* – Mr. Thompson co-authored the proposal for this project upon request from Alberta Transportation to investigate animal vehicle collisions along segments of northern Alberta's highways. The goal is to provide recommendations to mitigate and reduce the rates of collision at identified mortality hotspots. Night-time amphibian transect were also completed to study rates of mortality for smaller vertebrate taxa. Mr. Thompson supervised field staff and completed the Kernel Density Estimator hotspot software analysis, GIS spatial analysis using LecoS plugin to compute spatial statistics, and mixed effects model statistics to identify relationship between road kill hotspots and environmental variables of interest. He was the lead author on the final report.

City of Prince George, 2018 – *Road Salt Vulnerable Areas* – *Quality Control Research Manager* – Prepared sampling design and analytical parameters for salt (metal, anion) soil and water tests including methods and controls. Served as quality control manager for all sampling and reporting. The goal was to develop a Salt Vulnerable Areas Action Plan (SVAAP) for the City that is in accordance with the Code of Practice on the Environmental Management of Road Salts. Co-authored the SVAAP.

Allea Lake Research Forest Society, 2017-2018 – *Loop Lake Culvert Installation* – *Qualified Professional Biologist* – Professional guidance, review, and input on environmental design and monitoring protocols for amphibian culvert crossing. Review of environmental reports. Also completed inventory of amphibians for ALRFs in previous years. Completed inventory of amphibians for ALRFS in previous years leading to the development and interest in management of amphibians under this project.

Erafor Forestry Ltd., 2017– *Seebach Fisheries Sensitive Watershed* – *Fertilization Water Quality Monitoring* – *Quality Control Research Manager* – Supervised proposal, methods, budget, and personnel for a stream water quality monitoring program testing for ammonia, nitrite, and nitrate concentrations related to forest fertilization and applicable Fisheries Sensitive Watershed permit reporting. Environmental chemistry data also included temperature, pH, temperature. Developed the sampling strategy using GIS and watershed mapping to supervise and orientate field personnel for field trials. Liaised with client on budgets, logistics, and project coordination. Professional review on final report and statistical analysis (plots and ANOVA) of the environmental chemistry.

Kledo Construction Ltd, 2017 – *Prince Rupert water supply transmission main – Skeena Region* – *Qualified Environmental Professional* – The City of Prince Rupert contracted the installation of 2.1 km of new raw water supply transmission main, decommissioning of the existing water main, upgrades, and construction to the access road to facilitate construction and use of the site. Supervised environmental monitors on the project location, including intertidal, aquatic (stream / wetland),

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and terrestrial management considerations. Authored and supervised amphibian salvage operations plans, including permitting.

BC Hydro, 2014 - 2017 – GMSMON-17 Williston Trial Tributaries – Project Manager – Lead amphibian research biologist managing multi-year research project on diversity and abundance. Mr. Thompson's was the field manager for amphibians. Scope of responsibilities include: authoring and review of the amphibian, fisheries, and hydrotechnical (stage discharge) components of the annual report; quality control manager for field data collection/entry; statistical analyses for abundance estimation of fish populations; crew scheduling and orientation; budgets and invoicing. Project manager in year 2017 supervising, scheduling, and managing field and office personnel for data collection, entry, and reporting.

North Country Maintenance, 2017 – Alaska Highway Winter Maintenance RFP – Proposal Manager – Supervised large proposal writing team to complete a multi-million-dollar RFP through Public Works. Prime author on proposal providing assistance and training to other staff on proposal writing technique. Key liaison with client for the development of their management structure per proposal requirements, including: Quality Management Plan, Equipment Maintenance Plan, Safety Management Plan, Environmental Stewardship Policy, Aboriginal Inclusion Plan, and Employee Training Manual.

Corvidae Environmental, 2016 - 2017 - Stone Creek Amphibian Salvage and Wetland Construction – Project Manager – Environmental manager for amphibian salvage works on the BC MOTI Hwy 97 Stone Creek to Williams Road construction project. Contracted by Corvidae Environmental to develop a salvage operations plan and to build a wetland for the translocation of amphibians. Provided design options for wetland construction, supervised field personnel, conducted site audits, assisted with wetland construction and amphibian salvage works.

4Evergreen Resources LP. - 2016-2017 – Qualified Environmental Professional – Site C South Bank Shoreline Protection & Peace River side channel dyke closure. Project manager supervising environmental monitors and lead reviewer for Environmental Protection Plan's covering shoreline protection along the south bank segment of the Peace River shoreline, closure of side channels involving dyke works, and managing environmental works for clearing of the transmission line right-of-way. Developed amphibian salvage mitigation protocols and debris removal mitigation plan for Moberly River. Also supervised field water quality testing for suspended solids and preparing charts for severity of ill-effects model.

Cycle North Power Sports – 2015-present - Qualified Environmental Professional – Supervising a private land owner application to develop parcel land currently zoned within the Agricultural Land Reserve. Responsibilities include permit acquisition through the Agricultural Land Commission, City of Prince George, and FLNRO Water Sustainability Act Approval, while supervising and completing reports on soil/land capability, riparian habitat, and multi-year fish stream survey as part of the application process. A stream runs through the property, which required a fisheries and riparian assessment. Supervised the diversion and creation of a new stream channel per engineering design, that included development of a small amphibian wetland.

Iberdrola – 2016 - Habitat and Risk Analysis for Transmission Lines at Merritt Green Energy Project - Qualified Environmental Professional – Supervised and managed development of a habitat risk analysis report concerning wildlife for the development of a transmission line for a bioenergy plan near Merritt, BC. Responsibilities included liaison with the environmental manager for development of the report, wildlife permit acquisition, and providing expertise on amphibian salvage and management in relation to ongoing project development.

Tsay Keh Dene First Nations, 2015-2016 – Environmental Technical Coordinator – Representing the Tsay Keh Dene First Nations band through a Federal/Provincial Environmental Assessment (EA) process for a niobium mine. Responsibilities involve reviewing scientific technical information on Aley mine project, attending regulatory EA meetings, meeting and liaison with Taseko Mines, drafting review letters on quality of environmental assessment process, and communicating key environmental details on the EA process to Tsay Keh Dene First Nations.

Chu Cho Industries and BC Hydro, 2015-2017 – BC Hydro Dust Mitigation Program - Qualified Environmental Professional – Authored the environmental management plan and provided training to First Nations (Tsay Keh Dene) technicians on environmental monitoring techniques in relation to the debris removal and dust mitigation program. Specific emphasis was placed on amphibian management in relation to their use of the debris.

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BC Hydro, 2015 – Debris Strategic Management Plan –*Lead author and research manager* – A strategic management plan was developed for handling and management of debris along the reservoir foreshore area. This project intertwines with several other projects associated with the debris management program through BC Hydro, including dust control programs, acquiring Section 9 notifications, communicating with regulators, meeting with First Nations, and meeting with multiple contractors while conducting research and finalizing a strategic management report.

Allteck Power Line Contractors, 2015 - 2017 - BC Hydro Overhead Rating Restoration 11364 Project – *Qualified Environmental Professional* – Lead reviewer of the Environmental Protection Plan. Supervising environmental monitoring field staff. Coordination with multiple site contractors, environmental firms, and permit acquisition for power line upgrades. Supervised environmental monitors during construction of clear-span bridge crossing to access over Lynx Creek. Supervised and reviewed reports on bird nest surveys and monitoring.

IDL, June 2014-Oct 2015 – Bear Mountain Substation Terminal (DCAT) - *Qualified Environmental Professional* – Providing professional environmental services, including lead reviewer of the Environmental Protection Plan, training of environmental monitors, reviewing monitors reports, conducting bi-weekly site visits, reviewing audits, and providing guidance on environmental regulation, CEMP compliance, spill control, erosion and sediment erosion control, water quality testing, amphibian management, and reclamation works.

Black and McDonald, June 2014-Oct 2015 – Groundbirch Substation Terminal - *Qualified Environmental Professional* - Providing professional environmental services, attending meetings, including lead reviewer of the Environmental Protection Plan, training environmental monitors, reviewing monitors reports, conducting bi-weekly site visits, reviewing audits, and providing guidance on environmental regulation, CEMP compliance, spill control, erosion and sediment erosion control, amphibian management, and reclamation works.

Ministry of Transportation, Aug 2013-Dec 2015 – South Taylor Hill Hwy 97 Corridor Improvements - *Qualified Environmental Professional* - Large construction project involving multiple contractors, regulators, and First Nations. Roles included execution of aquatic and terrestrial resources surveys, a fisheries assessment, author and review of multiple environmental reports, advising ministries on regulatory requirements per environmentally sensitive features, procurement of wildlife salvage permit, Section 9 Water Act approval, authored two environmental management plans, supervised amphibian salvage works, supervised and directed in-field environmental monitoring.

BC Ministry of Transportation, 2013-2014 – 70 Mile Seeding Trials - *Qualified Environmental Professional / Researcher* – A research study design for seeding mixture field trials along the Caribou Hwy north of 70 Mile House. Mr. Thompson supervised the field work, including plot establishment, field card data collection, plant identification, measurements, wildlife tracking, statistical analysis, and authorship of final report. Included methods development, data entry, statistical analysis, and authoring of final research report.

AMEC, 2013-2014 – Northern Gateway Geotechnical Investigations – *Qualified Environmental Professional* - Conducted species and communities at risk assessments and reports, provided environmental monitoring services, and authored an Environmental Management Plan for Geotechnical Investigations covering northern Alberta and British Columbia. Completed field site investigations, including surveys for western toads, coastal tailed frogs, and nesting birds.

Minex & Ministry of Transportation, 2013 – Bessborough Road 212 improvement project – *Qualified Environmental Professional* - Riparian assessment, regulatory agency liaison, environmental monitoring, and managing amphibian mitigation salvage (field and office). Managed diversion of wetland for culvert replacement that was populated with amphibian tadpoles.

Duz Cho, 2013 – Beaver Pond Williston Reservoir Wetland Habitat - *Qualified Environmental Professional* – authored environmental protection plan and conducted site visit with clients to discuss environmental mitigation. Conducted environmental surveys for amphibians and coordinated environmental planning with sketches.

Western Industrial Consulting, 2013 – *North Pond Construction Qualified Environmental Professional* – Supervised the ecological installation components of a wetland design. Prepared an aquatic vegetation and invertebrate installation plan. Managed sourcing and collection of aquatic plants and invertebrates for planning and translocation into the site. Authored close-out

reports. The wetland was to serve as both a storm water retention pond and amphibian breeding habitat. The wetland was also designed to manage the storm water system and hydrology for new subdivisions being built in the area.

Historical Work Experience in Natural Resource Sector

Molecular Genetics Support Specialist - *Ecosystem Science and Management, UNBC Genetics Facilities (May 2004–May 2012)*

- Managed & supervised internal & external genetic research contracts for biological & health sciences
- Execution and research into genetic applications
- Management & maintenance of laboratory equipment, reagents, and budgets
- Assisted & trained students in genetic methods and techniques (PCR, real-time PCR, microsatellites, DNA sequencing)

Independent Environmental Monitor - *EOG resources, Calgary AB (July 2001)*

- Wildlife impact assessment for herpetofauna: snakes and northern leopard frog (*Lithobates pipiens*)
- Environmental report concerning pipeline plans.

Forestry Technician - *Industrial Forestry Services, Prince George, BC (January-April 2004)*

- Responsibilities included: Timber cruising, block layout, GPS, riparian boundaries, and silvicultural monitoring
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Lecturer and Teaching Assistantships

Department of Biology & Ecosystem Science & Management, UNBC

- Introductory Biology: Ecology & Animal Behaviour (guest lecturer: 2010, 2012-2015, 2017)
- Natural Resources Management Field Camp: Amphibians and Fisheries Stream Assessment (Summer 2004-2018)
- Ecology (Fall 1998)
- Introduction to Biology (Fall 1997, Winter 1997)
- Vertebrate Morphology & Anatomy (Winter 1997)
- Resource Inventories & Measurements (Fall 1997)

Department of Biological Sciences, University of Calgary

- Biology of Vertebrates: Fish Amphibians & Reptiles (Fall 2003)
- Introduction to Invertebrate Zoology (Winter 1999, 2000, 2001)
- Comparative Vertebrate Anatomy (Fall 2000, 2001, 2002)
- An Introduction to Biology II (Fall 1998, 1999)

Research and Student Assistantships

Division of Botany & Ecology, University of Calgary

- Systematics and statistics of phytochrome genes (May-June 2003)
 - Demographics and genetics of mice (*Mus musculus*) (July-August 2003)
 - University of Northern British Columbia, NRES faculty
 - Microscopy of woody debris mycological biomass estimation (Sept-Dec 1997)
 - Bird curation, inventory, & study skin preparation (Sept-Dec 1996)
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Independent Project Management Experience

- BC Hydro Sustainability Donation – Successful grant applicant in 2008 for \$9000 to conduct research on amphibian ecology & assessment in Prince George. Funded hiring summer students conducting transect & plot sampling for amphibian ecological research and educational outreach.

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- Mountain Equipment Co-op, Sustainability Grant – Successful grant applicant \$20,000 in 2007 for amphibian conservation. Funds were used to initiate non-profit charity and to hire summer student research assistants on ecological studies of amphibians.
- Habitat Conservation Trust Fund – Awarded \$9,500 in 2007 to conduct amphibian ecology & assessment research. Funds were used to purchase research equipment.
- Ministry of Environment, Lands, and Parks – Awarded \$10,000 in 2006 to conduct amphibian terrestrial ecology assessments and monitoring techniques for herbicide studies.
- Aleza Lake Research Grant – Awarded \$1500 to conduct demographic and species surveys of amphibians and reptiles in the Aleza Lake Research Forest.

Publications and Unpublished Reports

- Thompson MD. 2019. Amphibian wetland connectivity along the Williston Reservoir. DWB Consulting Services Ltd. PEA-F18-W-2569 DCA – Final Report for 2018/2019, prepared for Fish and Wildlife Compensation Program.
- Thompson MD and Zhang X. 2016. Response to: Neurotoxicity of paraquat and paraquat-induced Parkinson's disease. *Laboratory Investigations*, 96, 1030-1034
- Thompson MD. 2016. Amphibian and wetland connectivity along the Williston reservoir. Unpublished report by DWB Consulting Services Ltd. for BC Fish and Wildlife Compensation Program, PF16-W14. 76 pp.
- Thompson MD. 2016. Ecology of amphibian populations in the Williston Reservoir drawdown zone, British Columbia. Joint Partner Wildlife Conference, Partners in Amphibian and Reptile Conservation Member, Coer d'Alene, Idaho – Oral Presentation.
- Zhang X, Thompson MD. and Xu Y. 2016. Multifactorial theory applied to the neurotoxicity of paraquat and paraquat-induced mechanisms of developing Parkinson's disease. *Laboratory Investigation*, DOI: 10.1038/labinvest.2015.161
- Thompson MD and McDermot-Fouts, A. 2016. *Ambystoma macrodactylum* (Long-toed salamander). *Habitat. Herpetological Review*, 47: 96-97.
- MacInnis AJ, Thompson, M.D. Carson, A. and V. Prigmore. 2016. GMSMON-17: Williston Trial Tributaries, Year 5 – Draft Report. Unpublished report by DWB Consulting Services Ltd. and Cooper Beaudesne and Associates Ltd., Prince George, BC, for BC Hydro Generation, Water License Requirements, Burnaby, BC. x + 65pp. + Appendices.
- MacInnis AJ, Thompson MD, Laframboise J, Carson A, Craig C. 2015. GMSMON-17: Williston Trial Tributaries, Year 4. Unpublished report by DWB Consulting Services Ltd. and Cooper Beaudesne and Associates Ltd., Prince George, BC, for BC Hydro Generation, Water License Requirements, Burnaby, BC. x + 71pp. + Appendices.
- Thompson MD and Rea RV. 2013. *Rana sylvatica* (Wood frog). *Leucism. Herp. Rev.*, 44(1), 128-129.
- Thompson MD and Russell AP. 2005. Glacial retreat and its influence on migration of mitochondrial genes in the long-toed salamander (*Ambystoma macrodactylum*) in western North America. In Ashraf Elewa (ed.), *Climatology, Geography, Ecology: Causes of Migration in Organisms*. Heidelberg, Germany: Springer-Verlag Publishers
- Thompson MD. 2010. Extinction in our times: Global amphibian declines. *Herp. Rev.*, 41(1), 116-118.
- Thompson MD, Aukema KG, O'Bryan DM, Rader SD, and Murray BW. 2008. Plasmid sonication improves sequencing efficiency and quality in the Beckman-Coulter CEQTM system. *Biotech*, 45(3), 327-327.
- Thompson MD, Rea R. 2007. Forestry practice and management of amphibians: Systematic planning and monitoring amphibian ecosystems in the sub-boreal interior. Aleza Lake Interim Report.

Thompson MD. 2001. An unusually adept Ambystomatid, the long-toed salamander, coping at northern extremes. *The Boreal Dip Net*, 5(2):8–10

Thompson MD. 2000. Long-toed phylogeography: A “neo-perspective” on declines. *The Boreal Dip Net*, 5(1):14–16.

Presentations and Workshops

Thompson MD. 2019. *Restoring ecosystems in a burning province: Can the damage be reversed?*. Presidents presentation as part of BC Association of Professional Biology 40th Annual Conference and AGM. Kamloops, BC.

Thompson MD. 2018. *Wetlands and Amphibians*. Presentation in conjunction with BC Wildlife Federation, Wetland Keepers Program, Saulneau First Nations Wetland Training Workshop. Mackenzie, BC.

Thompson MD. 2018. *Amphibian management in BC: Mitigation, handling, and regulations*. Presentation in conjunction with BC Wildlife Federation, Wetland Keepers Program, Tsay Keh Dene First Nations Wetland Training Workshop. Tsay Keh Dene, BC.

Thompson MD. 2018. Herpetology Management and Research: Workshop. *A primer on monitoring and inventory best practices for amphibians and reptiles*. Organized and Presented at the Association of Professional Biology AGM, Richmond, BC.

Thompson MD. 2017. Herpetology Management and Research: Workshop. *Part I: Regulations, standards, Best Management Practices (BMPs), and conservation of amphibian and reptiles in BC and Part II: Research and Sampling Design*. Organized and Presented at the Association of Professional Biology AGM, Richmond, BC.

Thompson MD. 2017. Amphibians in Northern BC. UNBC's Natural Resources & Environmental Studies Institute. Mackenzie, BC. https://video.unbc.ca/media/FWCP+Colloquium+Presentation+Series+-+Amphibians+in+Northern+BC+-+November+21+2017/0_0gws897y/19801

Thompson MD. 2016. Amphibian Landscapes in Northern BC: Research Techniques and Conservation Management. UNBC's Natural Resources & Environmental Studies Institute. Prince George, BC. https://video.unbc.ca/media/NRESi+Amphibian+Landscapes+in+Northern+BC+Research+Techniques+and+Conservation+Management+-+Mark+Thompson%2C+DWB+Consulting+Services/0_i22pln6v/19801

Thompson MD. 2016. Ecology of Amphibian Populations in the Williston Reservoir Drawdown Zone, British Columbia. February, 2016. Fish and Wildlife Society, Society for Northwestern Vertebrate Biology, and NW Partners in Amphibian and Reptile Conservation Annual Conference, Partners in Amphibian and Reptile Conservation Member, Coer d'Alene, Idaho – Oral Presentation. <http://ictws.org/pdf/2016jointMeetingFinalAbstracts.pdf>

Thompson MD. 2016. The ecology and conservation of amphibians in northern British Columbia. Society for Ecosystem Restoration in North Central British Columbia (SERNbc), May 17th AGM Guest Speaker – Oral Presentation

Thompson MD. 2012. Consulting Amphibians: The logic, values and understanding of amphibian conservation and management. UNBC Fish & Wildlife Society, Prince George, BC. Oral.

Thompson MD. 2011. NAMOS BC (Northern Amphibian Monitoring Outpost Society): A charitable amphibian conservation organization in the Central Interior of British Columbia. UNBC Fish & Wildlife Society, Prince George, BC. Oral.

Thompson MD. 2010. Sustaining communities and their connections to local species. Nadsilnich Community Association, Prince George, BC. Oral.

- Thompson MD. 2009. NAMOS BC (Northern Amphibian Monitoring Outpost Society): A non-profit amphibian conservation organization in the Central Interior of British Columbia. Poster presentation, Columbia Mountains Institute, Wetlands Conference.
- Thompson MD. 2008. Biodiversity and climate change: Greening UNBC with amphibians. UNBC Green Day Events, CUPE public presentation, Prince George, BC. Oral.
- Thompson MD. 2006. Forestry management, education, and ecology of British Columbia's Omineca amphibians. Canadian Amphibian and Reptile Conservation Network, Victoria, BC. Oral.
- Thompson MD. 2005. An Introduction to Phylogenetics: Neutral Mitochondrial Repeats in the Long-toed Salamander *Ambystoma macrodactylum* (Amphibia: Urodela). UNBC Molecular Biology Interest Research Group colloquium, Prince George, BC. Oral.

References

<p>Dr. Roy Rea, Snr. Lab Instructor UNBC <i>Relationship:</i> Research collaborations <i>Phone:</i> 250.960.5833 <i>Email:</i> reav@unbc.ca</p>	<p>Dr. Anthony Russell, Prof. Emeritus University of Calgary <i>Relationship:</i> MSc Supervisor <i>Phone:</i> 403.220.5198 <i>Email:</i> arussell@ucalgary.ca</p>
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