

Steve Knapp, PWS, LSE, CWB®

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BRI Position: Director of Wetlands Program/Senior Environmental Scientist – with over 18 years' experience specializing in wetland delineations, wetland habitat assessments, vernal pool identification and assessments, stream assessments, and permitting. Project work includes designing, implementing, and monitoring wetland restoration/ mitigation projects, stream restoration projects, and invasive species management. Also performs wetland functional and wildlife habitat assessments, environmental permitting, botanical inventories, stream surveys, terrestrial and aquatic invertebrate surveys, and amphibian surveys.

Education: 2004 B.S., University of Maine, Wildlife Ecology, concentration in conservation biology

Notable Projects: (over 35,000 acres of natural resource delineation surveys performed)

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| 2024 | <p>Juniper Ridge Landfill (Alton, Maine)
Senior Scientist responsible for completing a natural resources survey and functional analysis of several hundred acres associated with a landfill expansion in Northern Maine. Duties included completion of jurisdictional wetland delineations, vernal pool surveys, and functional analysis of proposed impacts.</p> |
| 2023 | <p>Spring Salamander Survey (Woodstock, Maine)
Senior Scientist responsible developing a survey protocol and implementing a survey for northern spring salamander (<i>Gyrinophilus porphyriticus</i>) as part of a proposed solar development. Work included habitat assessment and identification of salamander species. Identified species were mapped with sub-meter GPS and a full report was provided to the Maine Department of Inland Fisheries and Wildlife.</p> |
| 2022 | <p>Solar Construction Oversight (~Multiple projects in Maine)
Senior Scientist responsible for providing construction oversight for several solar projects in Maine undergoing constructions. Work included ensuring that environmental permit conditions were adhered to and that erosion and sediment control BMPs were followed correctly.</p> |
| 2022 | <p>Warren Meadows Solar (~900 Acres, Warren Maine)
Senior Scientist responsible for providing oversight of natural resource surveys and conducting agency consultation for a solar project in Warren, ME. Completed agency consultation and review of mapped Deer Wintering Areas within the project area.</p> |
| 2019-2022 | <p>Three Corners Solar Project (~900 Acres, Unity Maine)
Senior Consultant responsible for providing oversight of natural resource surveys and conducting agency consultation for the Three Corners project in Maine.</p> |
| 2019-2021 | <p>Maine Small Site Solar Due Diligence (~1,000 Acres, Maine)
Senior Consultant performing wildlife, wetland, and permitting consulting services for 13 various solar sites throughout Maine.</p> |

- 2019 **Barefoot and Broadhead Solar** (~200 Acres, Waterville Maine)
Senior Consultant responsible for managing the State and Federal permitting including the preparation of an Environmental Assessment (EA) for the Federal Aviation Administration (FAA).
- 2019 **Compensatory Mitigation Credit Development Project** (South Carolina)
Senior environmental scientist responsible for the assessment of 29 parcels owned by Santee Cooper in South Carolina for the potential to create mitigation credits for wetland, stream, or rare, threatened, or endangered species habitat. From these parcels, 10 potential sites were identified that could be used by Santee Cooper to create mitigation credits. Along with site assessment, duties included the preparation a decision matrix that ranked the priority of each site based on feasibility and cost. Santee Cooper is currently evaluating which site to develop for mitigation credits.
- 2018 **Constitution Pipeline** (New York and Pennsylvania)
Senior scientist member of a multidisciplinary team to that developed a detailed mitigation plan for unavoidable impacts to wetlands resulting from a proposed 125-mile pipeline through portions of New York and Pennsylvania. Specific duties included developing and completing a wetland functional assessment for impacted wetlands and proposed wetland mitigation.
- 2018 **Horseshoe Wind Project** (200 Acres, Rumford Maine)
Senior Project Scientist responsible for completing natural resource surveys and agency consultation for a proposed wind project in Rumford, Maine.
- 2018 **Trafton Road Interchange** (Waterville, Maine)
Senior Project Manager responsible for organization and oversight of natural resource surveys and environmental permitting for the proposed Trafton Road interchange in Waterville, Maine. In addition to resource surveys duties included completion of Federal Highway Administration (FHA) Environmental Assessment (EA) to comply with NEPA. The project was successfully permitted and was constructed in 2017. In addition, services following the interchange development included natural resource surveys on approximately 1,000 acres on lands owned by the client.

Selected Publications:

- Knapp, S.,** M. Bernier, B. Lake, J. Burrows, D. Kircheis, T. Trinko Lake. 2011. West Winterport: A Successful Dam Removal and Habitat Restoration Case Study. Maine Water Conference. Augusta, Maine. March 16, 2011.
- Kircheis, D., T. Trinko, M. Bernier, M. Philips, **S. Knapp,** J. Austin. 2012. A Systematic Approach to Improve Fish Passage at Dams Necessary for Recovery of Endangered Atlantic Salmon. Maine Water Conference.

Certifications and Professional Affiliations:

- Licensed Site Evaluator 376
- Professional Wetland Scientist 2231
- Certified Wildlife Biologist (CWB®)
- Secretary Maine Association of Wetland Scientists
- Vernal Pool Technical Committee member, Maine Association of Wetland Scientists
- Maine Chapter of The Wildlife Society