



Environmental Consultants



Statement of Qualifications and Description of Services

## **Boyle Associates Environmental Consultants**

Formed by Jim Boyle in 1996, Boyle Associates is an environmental and land use consulting company with offices in Portland, Kennebunk and Dedham, Maine. Our staff has over 50 years of combined work experience in natural resource science and environmental project management. We have assisted clients on a variety of projects, providing technical support in resource impact analysis, GIS mapping and analysis, regulatory liaison, permit acquisition, wetland delineation, vernal pool assessments, environmental compliance monitoring, erosion and sedimentation control, and development and implementation of wetland mitigation and monitoring plans.



### **Services Provided**

#### **Wetland Delineation, Natural Resource Mapping and Vernal Pool Assessments**



Boyle Associates has provided wetland and vernal pool mapping for hundreds of projects in Maine, New Hampshire and Vermont. Our reputable staff of Wetland Scientists is trained in current state and federal wetland laws governing legal jurisdiction and boundary determinations. In addition to wetland delineation, our staff is experienced in vernal pool assessments, wetlands of special significance (WOSS) determinations, stream determinations, shoreland zoning setbacks and starting points, and GIS mapping of protected natural resources.

Boyle Associates has provided field expertise in natural resource mapping on several road and utility corridors as well as wind power projects throughout the northeast.

#### **Environmental Inspection, Erosion Control Plans and Permit Compliance Monitoring**

Boyle Associates staff includes four Certified Professionals in Erosion and Sedimentation Control (CPESC) who have conducted environmental inspections and provided erosion control oversight on pipelines, powerlines, wetland mitigation sites, and residential and commercial developments. Before and during project construction, our goal is to maintain open and consistent communication between the owner, the contractor, and the regulatory agencies, in order to avoid “surprise” regulatory issues. We apply our experience and expertise to help maintain compliance with project permits while enabling the project to be completed efficiently.



### Wetland Mitigation Sequencing, Siting and Design

Boyle Associates has extensive experience in finding, designing, and permitting wetland mitigation projects. Our staff has designed one of the largest multi-user mitigation sites in the Maine and we have permitted several smaller compensatory mitigation projects throughout the region. Boyle Associates has also helped businesses and municipalities survey their existing lands for potential compensation sites in advance of project permitting or for use as commercial compensation ventures. Additionally, our staff is experienced in working through Maine's in-lieu-fee program, and can help clients decide if ILF is a viable option to satisfy their permit needs.



### Environmental Permit Preparation and Acquisition

Boyle Associates has assisted clients at the municipal level with acquiring zone changes, subdivision approvals, and shoreland zoning permitting. At the state and federal level, we have assisted clients with preparation and acquisition of Natural Resources Protection Act Permits (including Permits-by-Rule), Stormwater Law Permits (and NPDES permitting), Site Location of Development Act Permits, and Department of Army Individual Permits.

### Wildlife Biology

Boyle Associates provides wildlife services to our clients, including single species accounts and landscape-scale population and impact assessments. When rare or special resources are encountered, Boyle Associates works with the client and regulators in order to achieve the project's objectives while avoiding and preserving the significant features. Our wildlife services include, mapping significant wildlife habitats, ground-truthing IF&W-mapped wading bird & waterfowl habitat and deer wintering areas, vernal pool habitat assessments and determinations, and creation of habitat management plans for rare, threatened or endangered fauna.



### **Boyle Associates Staff**

Jim Boyle, President: PWS, PLF, CPESC

Richard Jordan, Senior Wetland Scientist/Mitigation Specialist: PWS, CPESC

Rodney Kelshaw, Senior Wetland Scientist/Wildlife Biologist: LSE, PWS, CPESC, AWB

Lauren Leclerc, Lead Wetland Scientist: WPIT

Heather Storlazzi Ward, Senior Wetland Scientist: NHCWS, CPESC

## Representative Clients

Bangor Hydroelectric Company	Kennebec Water Power Company
Bechtel Corporation	MaineCom Fiber Optic
BH2M	Maine Department of Environmental Protection
CB Richard Ellis - The Boulos Company	Normandeau Associates
Central Maine Power Company	R.J. Grondin & Sons
City of Portland, Maine	Sebago Technics
City of South Portland, Maine	SGC Engineering, Co.
Deluca-Hoffman Associates	Stantec
ECorp	State of New York Oil and Gas Company
Foster Wheeler Environmental Corporation	SYTDesign Consultants
Genest Concrete Works	Tennessee Gas Pipeline Company
Gorrill-Palmer Consulting Engineers	TRC
HDR/Devine Tarbell & Associates	Vermont Electric Power Company
James W. Sewall Company	

## Project Experience

### *R.J. Grondin & Sons: Larrabee Farms Wetland Mitigation Project Site - Scarborough, Maine*

The Larrabee Farms project is a multi-user wetland compensation site that provides wetland compensation opportunities to developers in the greater Portland area. The Larrabee Farms site includes permanent protection of over 350 acres of wildlife habitat, including over 40 acres of created wetlands, 100 acres of existing wetlands and a 1.5-mile stretch of the Nonesuch River and floodplain. Boyle Associates staff are the lead environmental scientists and designers for the project. Boyle Associates continues to work with Grondin on the project, including mitigation construction oversight, vegetation monitoring, designing projects for future use, and marketing the site to prospective compensation users.

### *City of Portland: Compensation Potential Assessment - Portland, Maine*

Boyle Associates recently completed the initial phase of a resource assessment of 16 city-owned properties for the City of Portland. The intent of the assessment was to determine the suitability of these properties to provide compensatory mitigation credits for impacts to wetlands and other natural resources in the area. The assessment consisted of a compilation and review of existing GIS information and on-site investigations. On-site investigations included wetland, stream, and vernal pool mapping, wildlife habitat assessments. The data were used to compile a written assessment of wetland compensation potential on each of the parcels. Portland will use the assessment information to market potential compensation sites to developers within the city

The city now also has a ranked listing of city-owned, potential compensation opportunities to consider for use on their own future projects.

*Bangor Hydroelectric Company: Northeast Reliability Interconnect (NRI) Project - Penobscot, Hancock and Washington Counties, Maine*

Boyle Associates provided environmental inspection services on Bangor Hydroelectric Company's 90-mile NRI utility corridor project. As a condition of the project's NRPA permit, the DEP required Bangor Hydro to retain the services of a third-party environmental inspector to monitor compliance with DEP permit conditions during construction. The role of the third-party inspector is to monitor all construction and stabilization activities for compliance with permit conditions and the DEP-approved drawings and specifications; to make recommendations regarding erosion control implementation, stormwater system installation, and natural resource protection based on sound engineering and environmental considerations; and to facilitate communication between the contractor and DEP regarding any changes to the development's erosion control plan, stormwater management plan, or final stabilization plan. Boyle Associates worked with BHE and their contractors before, during and after construction in order to maintain a constant communication link between the DEP Project Manager and the NRI Project Coordinators. The open communication and planning helped reduce the threat of compliance issues on the project and kept the project on schedule through completion.

*Central Maine Power Company: Maine Power Reliability Program - Maine*

The MPRP project is CMP's largest project ever, and one of the largest single development projects in Maine history. As a subcontractor to TRC, Boyle Associates staff investigated and assessed several proposed routes for the project. Included in the preliminary assessment were wetland delineations, stream determinations, vernal pool assessments and significance determinations, WOSS determinations, and wetland functional assessments. Once the proposed routes were decided, Boyle Associates walked several of the proposed corridors in order to map the least environmentally damaging and safest access routes for construction. Utilizing experience gained as environmental inspectors and wetland scientists, and a knowledge of utility construction techniques and equipment abilities, Boyle Associates staff was able to help the project design team reduce impacts to natural resources. Following resource mapping and site design, Boyle Associates worked with TRC scientists and played a large role in preparing the compensation plan for the MPRP project. The mitigation team worked with regulatory agencies to determine the types and amounts of required compensation and analyzed over 100 compensation alternatives around the state. The final compilation of compensation projects and sites were chosen based on the type of natural resource compensation provided, the location of the site relative to the project's impacts and the comparative compensation value provided.

*New Hampshire Audubon: Dahl Sanctuary Management Plan - Conway, New Hampshire*

Boyle Associates prepared a long-term management plan for New Hampshire Audubon's Dahl Wildlife Sanctuary in Conway. This project was funded under *Wildlife Habitat Incentive Program (WHIP)* using the practice standard *Restoration and Management of Declining Habitats* of the USDA and NRCS. The Dahl Sanctuary is an exemplary parcel of land located on the banks of the Saco River. The site is approximately 60 acres, and consists of former agricultural fields, ter-

raced upland forests, and a large tract of silver maple floodplain. Boyle Associates prepared maps of the natural resources on the property and wrote a long-term management plan for the site. The goals of the plan included protecting the rare and special features of the property, reducing the infestation and threat from invasive species, increasing wildlife habitat, and harmonizing public access with continued wildlife use.

Wind Power Siting - Environmental Investigations

Boyle Associates staff have worked on several large wind power projects. Our staff conducted wetland mapping, wetland functional assessments, stream determinations, and vernal pool assessments for proposed turbine sites, access roads and utility connection right-of-ways. The survey areas have included ridgelines, sideslopes and valleys throughout Maine and New Hampshire.

**Contact Information:**



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