



Ecological Services



Groundwater & Environmental Services, Inc.

Solutions

GES is a multidisciplinary firm of ecologists, wetland scientists, botanists, foresters, geologists, soil scientists, engineers, planners and groundwater remediation specialists with expertise in solving complex ecological impacts. Our scientists have experience working with small land developers and Fortune 500 companies.

We are experts at helping clients find common sense and cost-effective solutions to regulatory issues through our commitment to client service and our outstanding reputation with regulatory agencies throughout the region.

Ecological Services

- Ecological risk assessments
- Wetland delineation and permitting
- Rare, threatened and endangered species studies
- Wetland mitigation banking
- Forest management and restoration
- Arboricultural services
- Ecosystem planning and restoration
- Natural resource damage assessment (NRDA)
- Tree, avian, and mammal surveys
- Cultural resources
- Aquatic environmental characterization and monitoring
- Wildlife hazard assessment and management
- Water, groundwater, wastewater treatment system design
- Spill Prevention, Control, and Countermeasure (SPCC) plans
- Stormwater Pollution Prevention Plans (SWPPP)
- Wetland restoration and biodiversity enhancement

Wetlands

- Wetland delineation
- Stream assessment
- Local, state and federal permitting
- Alternative and minimization analysis
- Stream restoration
- Wetland mitigation
- Mitigation banking



Endangered Species

- Experienced with EPA, USFWS, state and local permitting
- Wildlife habitat assessment
- Wildlife population monitoring
- Licensed, skilled botanists and foresters for rare plant collection and management
- Aquatic and terrestrial mitigation assessment, design, permitting, construction, and monitoring



Pipeline and Right-of-Way Management

- Industry leader in low-impact construction design
- Geological expertise in horizontal directional drilling (HDD) assessment, design, and monitoring
- Native habitat restoration specialists
- On-site wetland and habitat mitigation
- Construction management specialists in ecologically-sensitive areas
- EPA, USFWS, state, and local permitting experts



Forest restoration over gas pipeline on wildlife refuge



Wetland mitigation under electric transmission line



Pipeline installation over protected ground surface

Northeast Specialty

Ecological Services



Pennsylvania

- Directed pipeline excavation and restoration of soils in 120 wetlands statewide.
- Expert on BMPs for ecological construction of pipelines and right-of-ways (ROW's)
- Expertise in Pennsylvania Department of Environmental Protection (PADEP)/United States Army Corps of Engineers (USACE) joint wetland permitting
- Certified botanist/endangered species experts



New Jersey

- Expert in New Jersey Wetland Permitting
- Experienced with ecological risk assessments for emergency response as well as existing and abandoned industrial sites
- Tidal and non-tidal wetland restoration and mitigation
- Expertise with Pinelands Commission and numerous other local, regional, and state land-use agencies



New York

- Statewide experience with the State Environmental Quality Review Act (SEQR)
- Wetland delineation and permitting expertise statewide
- Ecological assessment for solar farms and battery-storage facilities statewide
- Mitigation monitoring expertise for landfill and industrial sites



New England

- Wetland permitting and presentation to local conservation commissions in communities statewide under the Massachusetts Wetlands Protection Act
- Environmental screening and environmental risk characterization for disposal sites under the Massachusetts Contingency Plan regulations
- Landfill wetland mitigation monitoring under EPA's Superfund program

Relevant Project Experience

Name	Education	Additional Training	404	T&E	ERA	NEPA	Other	Other Skills / Notes
Keith Bradley, REP, CWB	BS, Biology MS, Environmental Science	<ul style="list-style-type: none"> Airport Wildlife Management (FAA-Qualified) 	■	■	■	■	■	<ul style="list-style-type: none"> Certified Wildlife Biologist (CWB) Aquatic ecology/permitting NEPA documentation Stream and wetland mitigation Registered Environmental Professional (REP)
Kimberly Somers, PG	BA, Environmental Studies		■	■		■	■	<ul style="list-style-type: none"> Integrated Marsh Management Wetland delineations SEQRA documentation Nekton surveys Tidal inundation surveys Vegetation biomass
Mary Arnold	BS, Wildlife & Fisheries Resources	<ul style="list-style-type: none"> Authorized Gopher Tortoise Agent Erosion Prevention and Sediment Control Inspector 	■	■		■		<ul style="list-style-type: none"> Wetland delineation Environmental compliance Inspector (pipeline construction) Cultural resources Ecology and control of invasive plant species
Danielle Iulucci	BS, Ecology MS, Biological Sciences	<ul style="list-style-type: none"> Authorized Gopher Tortoise Agent Wetland Professional 	■	■	■	■		<ul style="list-style-type: none"> Wetland delineations, monitoring, mitigation 404 permitting (PA, OH, WV, NJ) Gopher tortoise survey
Gregory Flanagan	BS, Natural Resource Management/ Applied Ecology	<ul style="list-style-type: none"> Ecological Risk Assessment Technical Training NJ Ecological Evaluation Program Wetland Delineation Certification 	■	■	■		■	<ul style="list-style-type: none"> Benthic macroinvertebrates Phytoremediation Small mammal monitoring Avian surveys Ecological Restoration/Natural Resource Damages
Jeremy Miller	BS, Environmental Studies: Fisheries & Wildlife Concentration	<ul style="list-style-type: none"> Wetland Delineation 					■	<ul style="list-style-type: none"> Electro-fishing and fish collection Macro invertebrate sampling/identification, bird identification Tree identification (eastern US) Wetland vegetation ID
Daniel Breckenridge	BS, Wildlife Science	<ul style="list-style-type: none"> Baseline Ecological Evaluation Training (BEE) 	■	■	■		■	<ul style="list-style-type: none"> Part of the BEE team (New Jersey) performing evaluations at retail petroleum sites Bird, mammal & tree identification
Ashley Huffman	BS, Environmental Studies	<ul style="list-style-type: none"> Wetland Delineation 	■					<ul style="list-style-type: none"> Coastal wetlands Regulatory compliance Stormwater assessments
Ryan Cohen	BS, Wildlife & Fisheries	<ul style="list-style-type: none"> Wetland Delineation 	■					<ul style="list-style-type: none"> Wildlife population/habitat survey Exotic vegetation control Natural resources and ecological assessments

Name	Education	Additional Training	404	T&E	ERA	NEPA	Other	Other Skills / Notes
Joseph Schwartz	BS, Zoology MS, Environmental Science		■	■	■	■	■	<ul style="list-style-type: none"> • Aquatic ecology/permitting • Stormwater, including SWPPPs • Habitat assessments • Biomonitoring
Margaret Forbes, PhD, EIT, PWS	PhD, Environmental Science BS/MS, Environmental Engineering	<ul style="list-style-type: none"> • Engineer-in-Training • Professional Wetland Scientist 	■	■	■	■	■	<ul style="list-style-type: none"> • Wetland studies • Stream design • Protected species surveys • Ecological risk assessment • NEPA documentation
Kirsten Ward	BA, Geography and Environmental Science		■	■		■		<ul style="list-style-type: none"> • USFWS permits • Ecological studies • Protected species habitat assessment • NEPA documentation
Madison Peters	BS, Environmental Science	<ul style="list-style-type: none"> • Wetland Delineation Certification 	■	■	■	■	■	<ul style="list-style-type: none"> • Mitigation monitoring/plan • Tree surveying • Steam and wetland monitoring • Protected species habitat evaluation
Sara Kosari	BS, Geology						■	<ul style="list-style-type: none"> • Resource Interpreter/Park Ranger • Coastal geology/wetlands/habitats • Wetland vegetation identification • Atlantic coast fish identification & seining • Bird Identification
Craig Angell	BA, Environmental Biology			■			■	<ul style="list-style-type: none"> • Field surveys for waterfowl, reptiles, fish, and river otters • Wetland restoration
Ross Flatgard	BA, Environmental Science		■				■	<ul style="list-style-type: none"> • Aquatic sampling • Biota sampling and surveying • Avian surveying
Tom Gunter	BS, Forest Resources and Conservation	<ul style="list-style-type: none"> • Authorized Gopher Tortoise Agent • Erosion Prevention and Sediment Control Inspector • FERC Natural Gas Pipeline Environmental Compliance Training 	■	■		■	■	<ul style="list-style-type: none"> • Wetland delineation and permitting • Wetland mitigation • Permit compliance monitoring/inspection • Erosion and sediment control • Mapping and reporting • SWPPPs and SPCC plans

Experience Categories. 404: Section 404 of the Clean Water Act. Includes delineations, permitting, monitoring, and mitigation. T&E: Threatened and Endangered Species habitat evaluations and presence/absence surveys. ERA: Ecological Risk Assessments. NEPA: Categorical Exclusions, Environmental Assessments, and Environmental Impact Statements.



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