

## Ecological Services





#### 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 though 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 (SWPP)



#### 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
- License, skilled botanists and foresters for rare plant collection and management
- Aquatic and terrestrial mitigation assessment, design, permitting, construction, and monitoring





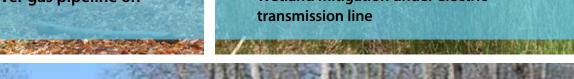


# Pipeline and Right-of-Way Management

- 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









Pipeline installation over protected ground surface

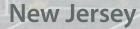
#### **Northeast Specialty**

## **Ecological Services**



#### Pennsylvania

- Directed pipeline excavation and restoration of soils in 120 wetlands statewide.
- Expert on BMPs for ecological construction of pipelines and rightof-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



- · 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**

Har	he Education	Additional Training		AOA.	(ot	ERA	NEPA	Other Skills
Richard Pais, CWB, CFP	BS, Natural Resource Management MS, Forest Sciences	Wetland Delineation	•	•			•	<ul> <li>Certified Wildlife Biologist (CWB)</li> <li>Certified Forest Professional (CFP)</li> <li>Wetland delineation, permitting, mitigation</li> <li>Tree, vegetation surveys</li> <li>Mammal trapping</li> </ul>
Kimberly Somers, PG	BA, Environmental Studies		•	•		•	•	<ul><li>Wetland delineations</li><li>SEQRA documentation</li><li>Nekton surveys</li><li>Tidal inundation surveys</li><li>Vegetation biomass</li></ul>
Mary Arnold	BS, Wildlife & Fisheries Resources	<ul> <li>Authorized Gopher Tortoise Agent</li> <li>Erosion Prevention and Sediment Control Inspector</li> </ul>	•	•		•		<ul> <li>Wetland delineation</li> <li>Environmental compliance Inspector (pipeline construction)</li> <li>Cultural resources</li> <li>Ecology and control of invasive plant species</li> </ul>
Danielle Iuliucci	BS, Ecology MS, Biological Sciences	<ul><li>Authorized Gopher Tortoise Agent</li><li>Wetland Professional</li></ul>	•	•	•	•		<ul> <li>Wetland delineations, monitoring, mitigation</li> <li>404 permitting (PA, OH, WV, NJ)</li> <li>Gopher tortoise survey</li> </ul>
Gregory Flanagan	BS, Natural Resource Management/ Applied Ecology	<ul> <li>Ecological Risk         Assessment         Technical Training</li> <li>NJ Ecological         Evaluation Program</li> <li>Wetland Delineation         Certification</li> </ul>	•	•	•		•	<ul> <li>Benthic macroinvertebrates</li> <li>Phytoremediation</li> <li>Small mammal monitoring</li> <li>Avian surveys</li> <li>Ecological Restoration/Natural Resource Damages</li> </ul>
Jeremy Miller	BS, Environmental Studies: Fisheries & Wildlife Concentration	• Wetland Delineation					•	<ul> <li>Electro-fishing and fish collection</li> <li>Macro invertebrate sampling/ identification, bird identification</li> <li>Tree identification (eastern US)</li> <li>Wetland vegetation ID</li> </ul>
Daniel Breckenridge	BS, Wildlife Science	Baseline Ecological Evaluation Training (BEE)	•	•	•		•	<ul> <li>Part of the BEE team (New Jersey)     performing evaluations at retail     petroleum sites</li> <li>Bird, mammal &amp; tree identification</li> </ul>
Ashley Huffman	BS, Environmental Studies	Wetland Delineation						<ul><li>Coastal wetlands</li><li>Regulatory compliance</li><li>Stormwater assessments</li></ul>
Ryan Cohen	BS, Wildlife & Fisheries	Wetland Delineation						<ul> <li>Wildlife population/ habitat survey</li> <li>Exotic vegetation control</li> <li>Natural resources and ecological assessments</li> </ul>

Н	ane Education	Additional Additional		AOA	19E	ERA	MEPA	Other Other Skills
Jonathan Rogers	BS, Natural Resources Managment		•	•		•		<ul> <li>404 discharge sampling</li> <li>T&amp;E species identification and forestry site index</li> <li>Lowland forest impacts (Michigan)</li> </ul>
Doug Locy, PG	BS, Biology and Geology	<ul><li>Freshwater Mussels</li><li>Scientific Diver</li></ul>	•					<ul><li>Fish surveys and habitat evaluations</li><li>Freshwater mussel surveys</li><li>Bathymetric mapping</li><li>SAV Mapping</li></ul>
Keith Bradley, REP, CWB	BS, Biology MS, Environmental Science	Airport Wildlife Management (FAA-Qualified)	•	•	•	•	•	<ul> <li>Certified Wildlife Biologist (CWB)</li> <li>Aquatic ecology/permitting</li> <li>NEPA documentation</li> <li>Stream and wetland mitigation</li> <li>Registered Environmental Professional (REP)</li> </ul>
Joseph Schwartz	BS, Zoology MS, Environmental Science		•	•	•		•	<ul><li>Aquatic ecology/permitting</li><li>Stormwater, including SWPPPs</li><li>Habitat assessments</li><li>Biomonitoring</li></ul>
Margaret Forbes, PhD, EIT, PWS	PhD, Environmental Science BS/MS, Environmental Engineering	<ul><li>Engineer-in-Training</li><li>Professional</li><li>Wetland Scientist</li></ul>	•	•	•	•	•	<ul> <li>Wetland studies     Stream design</li> <li>Protected species surveys</li> <li>Ecological risk assessment</li> <li>NEPA documentation</li> </ul>
Kirsten Ward	BA, Geography and Environmental Science		•					<ul><li> USFWS permits</li><li> Ecological studies</li><li> Protected species habitat assessment</li><li> NEPA documentation</li></ul>
Madison Peters	BS, Environmental Science	Wetland Delineation Certification	•	•			•	<ul><li> Mitigation monitoring/plan</li><li> Tree surveying</li><li> Steam and wetland monitoring</li><li> Protected species habitat evaluation</li></ul>
Jared Cobb	BS, Horticulture	<ul><li>Wetland Delineation</li><li>Certified Arborist</li></ul>	•				•	<ul> <li>Mitigation monitoring/plan</li> <li>Ecological assessment and wildlife surveys</li> <li>Tree surveying</li> <li>Invasive species</li> <li>WOUS assessments and delineations</li> </ul>
Sara Kosari	BS, Geology						•	<ul> <li>Resource Interpreter/Park Ranger</li> <li>Coastal geology/wetlands/habitats</li> <li>Wetland vegetation identification</li> <li>Atlantic coast fish identification &amp; seining</li> <li>Bird Identification</li> </ul>
Craig Angell	BA, Environmental Biology						•	<ul><li>Field surveys for waterfowl, reptiles, fish, and river otters</li><li>Wetland restoration</li></ul>
Ross Flatgard	BA, Environmental Science	logo Watay Ant, Includes delicent	•				•	<ul> <li>Aquatic sampling</li> <li>Biota sampling and surveying</li> <li>Avian surveying</li> </ul>



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