



Company Overview

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environmental consulting & engineering services - from concept to reality

Full-Service Environmental Consulting & Engineering

ESS provides multi-disciplinary environmental consulting and engineering services to address a variety of environmental media and regulatory program requirements. We offer clients expertise to support projects ranging from environmental compliance and permit renewal to new facility development. Our scientific know-how, combined with in-house civil engineering and site assessment/remediation services, provides clients of all types and sizes with sound scientific results and customized solutions.

Support from Concept Planning through Operations

ESS supports clients during all stages of project development. We conduct siting and feasibility evaluations, develop environmental impact reports and permit applications, prepare construction specifications, and provide on-site environmental monitors during construction. Once projects are operational, ESS works with clients to meet permit, compliance, management, and/or annual reporting requirements. We frequently remain involved in projects for years, assisting clients with permit renewals, facility upgrades, and expansions.

A Primary Focus in Energy, Including Renewable Generation

ESS has been the lead environmental consultant for more than 14,000 MW of proposed power generation, 700 miles of proposed overland and submarine electric transmission, and 4,000 MW of proposed renewable energy. ESS energy projects also include natural gas storage and transmission facilities, biomass-based generation, retrofits of existing generation assets, and due diligence for asset transfers and acquisitions. Our consulting has supported energy policy development, and we advise clients regularly as requirements change in response to new technologies and environmental considerations.

Coastal & Marine Capabilities

Ocean and coastal sites are dynamic settings that require specialized techniques for environmental assessment, project construction, and impact mitigation. ESS ecologists, coastal engineers, marine geologists, and water quality experts design and implement field surveys and environmental impact assessments for projects such as offshore wind farms, marina and port facilities, and submarine cable installations.

Comprehensive Water & Natural Resources Management

A collaborative approach and range of expertise is often needed for projects requiring a balance between the built and natural environments. ESS scientists, engineers, and planners boast a diverse range of specialties to support a wide variety projects related to the protection, conservation, and restoration of at-risk resources.



Industry Experience

- Commercial
- Education
- Financial
- Energy
- State & Local Government
- Federal Government
- Military
- Industrial
- Manufacturing
- Pharmaceutical
- Transportation
- Utilities
- Real Estate
- Community Development Corporations
- Non-Government Organizations
- Research & Development
- Hospitality
- Medical

Environmental Compliance

ESS has in-depth understanding and practical experience with environmental policies and regulatory programs. Our project-based relationships with regulatory staff facilitate communication and cooperation, which are key factors when timely and effective resolution is required. ESS focuses on cost-effective and timely solutions and understands the importance of operational goals when managing ongoing environmental compliance.

Multi-media Audits/Inspections

ESS has provided hundreds of multi-media compliance assessments for a wide variety of client types, including energy, industrial, and institutional facilities. Our strong regulatory skills and hands-on experience provide a distinct advantage for determining the applicability of various programs to facility operations. ESS develops practical recommendations for compliance and environmental management, which can range from simple changes in protocol to process modification. Our comprehensive assistance services for operating facilities include reporting, database development, facility monitoring, record keeping, and development of proactive environmental management programs.

Regulatory Compliance Reporting

ESS provides reporting services to assist clients in preparing compliance reports, and written facility plans as required by various local, state, and federal regulatory permits and regulations. ESS prepares compliance reports for all environmental media - air, water, soil, and toxic material use. ESS regulatory compliance reporting experience includes filings for numerous industrial facilities ranging from power plants and manufacturing facilities to municipalities and construction sites for land development projects.

Environmental Management Plans

We can help set up proactive environmental management programs to address environmental and compliance reporting requirements in a comprehensive manner. This approach ensures coordinated scheduling, documenting, and updating of environmental compliance activities. Written Environmental Management Plans assign clear responsibility and require regular re-evaluation of facility practices and processes. ESS has found that these plans promote environmental performance, reduce environmental liabilities, identify cost saving measures, and demonstrate a corporate commitment to environmental compliance that is valued by customers, regulators, and the local community.

ESS provides reporting and compliance support for:

SPCC	RATA	GHG	RMP
SWPPP	MACT	EHS	TURA
Title V/SMOP	RCRA	EMS	EPCRA (Tier II/CRTK, TRI)



Core Services

- Federal, State & Local Environmental Permit Applications
- Air Quality Consulting
- Air Emissions Inventory & Reporting
- Pollution Prevention Plans
- Environmental Compliance Audits & Training
- On-site Environmental Compliance Management & Support
- Environmental Management Systems & Training
- Environmental Inspection & Monitoring
- Environmental Management Plans
- Database Development & Management
- NPDES Stormwater Compliance
- Spill Prevention, Control & Countermeasure Plans
- Clean Air Act Risk Management Plans
- Greenhouse Gas Inventories & Management Strategies
- Environmental, Healthy & Safety Plans
- Facility Response Plans



Stormwater

Whether developing a retail shopping center or power plant, or assessing or improving a site's stormwater conditions, ESS provides practical engineering solutions for stormwater control. We have conducted numerous watershed diagnostic/feasibility studies, developed both construction and operational Stormwater Pollution Prevention Plans (SWPPP), and prepared discharge permit applications for facilities of all sizes under both state and federal guidelines. ESS considers the unique features of every site and designs stormwater systems that meet each project's specific needs and the business objectives of our clients.

Assessment & Management

ESS engineers are on the cutting edge of stormwater management engineering. For more than 10 years, ESS has designed and overseen construction of the latest in alternative stormwater treatment, Low Impact Development (LID) stormwater systems, and environmentally sensitive site design. These include water quality treatment using infiltration ponds/trenches, rain gardens, and porous pavement features. ESS has also assisted municipalities with design and evaluation of non-structural controls including Ordinances and By-laws, public outreach programs, and stormwater utilities.

Removal of Pollutants

New stormwater regulations require the removal of pollutants such as sediment and nutrients from stormwater before it is discharged to the environment. Stormwater assessments for projects subject to these regulations must now address not only the volume of stormwater to be removed or contained on a site, but also the volume of associated pollutants that the stormwater may introduce into the environment. Many older systems must also be upgraded to adhere to these new pollutant removal standards. ESS excels in these quantitative evaluations.

Quantitative Analysis & Modeling

ESS water resource scientists and engineers have considerable experience conducting comprehensive stormwater evaluations and watershed assessments. These stormwater assessments address stormwater system design, permitting, and annual reporting through:

- Runoff Volume Calculations
- Sizing of Stormwater Conveyance Structures
- Dry and Wet Weather Sampling
- Hydrologic & Pollutant Load Modeling
- Rainfall and Discharge Event Monitoring
- Stream, Lake & Pond Assessments



Core Services

- Watershed Delineation
- Stormwater Management Plans
- Storm Water Pollution Prevention Plans (SWPPP)
- Bacteria, Nutrient & Pollutant Loading Evaluations
- Construction Administration
- Construction Cost Estimates
- Drainage Studies & Design
- NPDES Stormwater Compliance
- Civil Engineering
- Low Impact Development (LID) Design
- Water Quality Sampling & Monitoring
- Water Quality Permitting
- Sediment Quality & Isopach Mapping
- Bathymetry Mapping
- Hydrologic Modeling
- Erosion & Sedimentation Control Design
- Operation & Maintenance Plans
- Peer Review
- Best Management Practices (BMP) Retrofits for 319 Grant Projects





About ESS Group, Inc.

ESS is a multi-disciplinary environmental consulting and engineering firm established under its current ownership in 1997 operating from two locations in East Providence, Rhode Island and Waltham, Massachusetts. ESS has grown from its roots in environmental remediation to become a leading service provider for the energy, industrial, manufacturing, utility, water resources, and real estate development markets. Our team of 35 scientists, engineers, and regulatory specialists provides a comprehensive range of services related to stormwater, natural resources and ecology, water resources, environmental compliance and remediation, coastal engineering, and marine sciences with a successful track record of keeping projects compliant with regulatory standards.

Key Project Team Members

The following personnel are proposed as key personnel based on their technical areas of expertise and relevant experience. Following is a brief description of their qualifications and resumes are also included.

Matt Ladewig, CLM – Senior Scientist

Mr. Ladewig is a Certified Lake Manager and ecologist with more than 19 years of experience in the monitoring, modeling, and management of aquatic ecosystems. He has completed studies on over 75 lakes and ponds for a variety of clients, including water suppliers, state and municipal governments, lake associations, and private landowners. Mr. Ladewig has also developed and implemented numerous surface water sampling, sediment testing, and biomonitoring programs for a wide variety of water resource projects.

Stacey Snow, PE, ENV SP – Senior Environmental Compliance Engineer

Ms. Snow is a Professional Engineer with more than 30 years of environmental consulting, engineering, and environmental health and safety regulatory experience at industrial, military, and academic facilities. Her consulting experience includes safety and environmental planning and reporting; regulatory compliance seminars and training; environmental, safety, and health auditing; air permitting and compliance; and risk management and contingency planning. Stacey has been responsible for managing compliance programs related to ISO 14001, Title V, hazardous waste, wastewater, stormwater, EPCRA, and SPCC.

Stephanie Martin – Project Manager

Ms. Martin is an Environmental Scientist with over seven years of experience in the collection and analysis of a wide range of data types. She regularly provides technical and regulatory support for large, complex coastal and marine projects. Ms. Martin's experience includes, environmental monitoring, field surveys and data collection, environmental policies and regulatory programs, visuals studies, and remediation strategies. Her hands-on field sampling experience has included geophysical and geotechnical surveys, water quality and stormwater sampling, sediment sampling and classification, and sound surveys.

Roger Gosciminski – Environmental Engineer

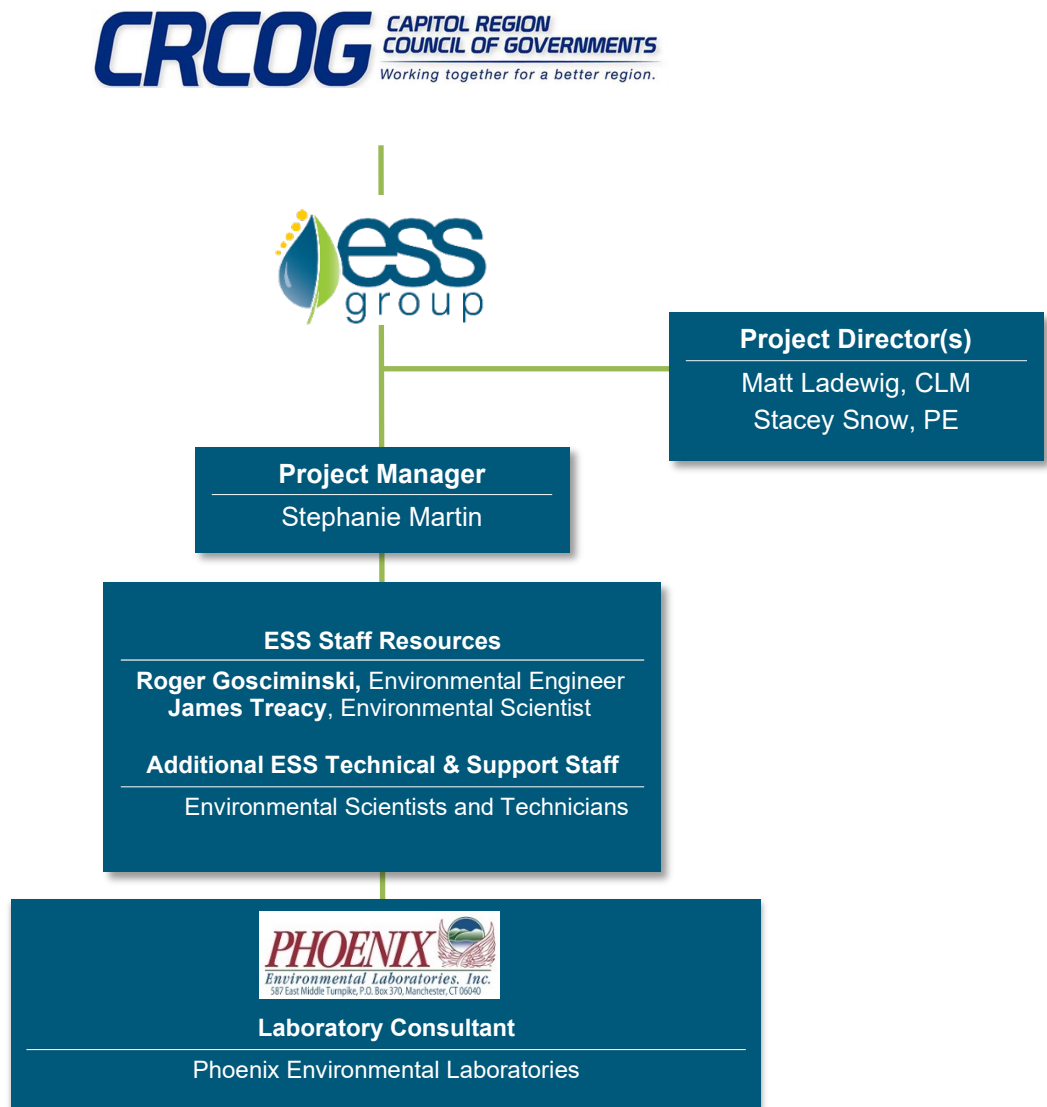
Mr. Gosciminski is an Environmental Engineer with more than 20 years of experience in environmental engineering and multi-media compliance management. He has provided environmental, health, and safety compliance support for manufacturing operations that include preparation of SPCC, stormwater pollution prevention and other compliance plans, environmental reporting, training of plant personnel, and associated technical and regulatory analysis.



James Treacy – Environmental Scientist

Mr. Treacy is an environmental scientist that has performed various natural resource and ecological field investigations, including vegetative surveys and mapping, wildlife surveys, macroinvertebrate sampling and analysis, watershed and water quality assessments, construction compliance monitoring, geophysical and geotechnical surveys.

ESS Team Organizational Chart





MATTHEW D. LADEWIG, CLM Senior Scientist

Experience

ESS Group, Inc.: 2006 to present

Years of Prior Related Experience: 3

Education

MS, Aquatic Resource Ecology and Management, University of Michigan, 2006

BA, Physical Geography, University of Illinois at Urbana-Champaign, 2000

Professional Certifications

North American Lake Management Society – Certified Lake Manager #12-01M

Society for Freshwater Science – Chironomidae and Eastern EPT Taxonomist (through 2022)

Alum for Phosphorus Control in Lakes and Ponds, 8-hour Workshop (2017)

40-hour OSHA HAZWOPER Training and 8-hour Supervisor Refreshers (through May 13, 2017)

Boat Massachusetts Boat Safety Certification

8-hour Offshore Water Survival Certification

SafeGulf Marine Safety Certification

Affiliations

Rhode Island Environmental Monitoring Collaborative – Appointed Member (2013 to present)

Northern Rhode Island Conservation District: Healthy Farm, Healthy Watershed – Technical Steering Committee Member (2019 to 2021)

Qualifications

Mr. Ladewig is a Certified Lake Manager and ecologist with 18 years of experience in the monitoring, modeling, and management of aquatic ecosystems. He has completed studies on more than 100 water bodies for a variety of clients, including water suppliers, state and municipal governments, lake associations, and private landowners. Mr. Ladewig has also developed and implemented numerous surface water sampling, sediment testing, and biomonitoring programs for a wide variety of water resource projects.

Mr. Ladewig is an experienced taxonomist who has analyzed thousands of macroinvertebrate samples collected from freshwater and marine habitats in the US Northeast, Mid-Atlantic, Great Plains, Midwest, and the Bahamas. He holds certifications from the Society for Freshwater Science and oversees the ESS invertebrate taxonomy lab. Mr. Ladewig's taxonomic experience extends to a wide variety of other biological resources, including fish, birds, aquatic plants and a number of rare species.

In addition to his water resources work, Mr. Ladewig regularly completes field studies and environmental impact assessments associated with all phases of submarine cable, upland transmission, and renewable energy generation projects.

Representative Project Experience

Town of Windsor – MS4 Stormwater Compliance Monitoring – Windsor, CT. Manages the annual MS4 monitoring efforts on behalf of the town Engineering Department. All field sampling and laboratory analyses are reported to the Town for the required annual filing with CTDEEP.

Town of Enfield – MS4 and Industrial Stormwater Compliance Monitoring – Enfield, CT. Manages the annual MS4 and quarterly industrial stormwater monitoring efforts on behalf of multiple Public Works divisions, including Water Pollution Control, Highway, Building and Grounds, and Solid Waste. All field sampling and laboratory analyses are reported to the Town for the required annual filing with CTDEEP.

Town of Vernon – MS4 and Industrial Stormwater Compliance Monitoring – Vernon, CT. Manages the annual MS4 and quarterly industrial stormwater monitoring efforts on behalf of the town Highway Department. All field sampling and laboratory analyses are reported to the Town for the required annual filing with CTDEEP.

Town of Windsor Locks – MS4 Stormwater Compliance Monitoring – Windsor Locks, CT. Manages the annual MS4 and stormwater monitoring efforts on behalf of the Town's Public Works Department. All field sampling and laboratory analyses are reported to the Town for the required annual filing with CTDEEP.

Town of Rocky Hill – MS4 Stormwater Compliance Monitoring – Rocky Hill, CT. Manages the annual MS4 and stormwater monitoring efforts on behalf of the Town's Engineering Department. All field sampling and laboratory analyses are reported to the Town for the required annual filing with CTDEEP.

Town of Berlin – MS4 Stormwater Compliance Monitoring – Berlin, CT. Manages the annual MS4 and stormwater monitoring efforts on behalf of the Town's Public Works Department. All field sampling and laboratory analyses are reported to the Town for the required annual filing with CTDEEP.

Town of Manchester – MS4 Stormwater Compliance Monitoring – Manchester, CT. Manages the annual MS4 and stormwater monitoring efforts on behalf of the Town's Public Works Department. All field sampling and laboratory analyses are reported to the Town for the required annual filing with CTDEEP.

Schnitzer Northeast – Industrial Stormwater Compliance Monitoring – Attleboro, MA. Provides quarterly stormwater monitoring compliance services for multiple outfalls at the metals recycling facility in Attleboro. Results are reported to the client for required filings.

Town of Westford – Development of Nutrient Budgets for Four Water Bodies – Westford, MA. Designed and implemented a field program to identify key sources of nutrients for four Town-managed lakes. The results of the field program are being used to develop nutrient budgets for each water body and provide cost-effective prioritized recommendations for reducing and mitigating nutrient loads. Nutrient sources evaluated include stormwater, streamflow, groundwater and internal loading.

Town of Barrington – Phosphorus Reduction Analysis for Brickyard Pond – Barrington, RI. ESS developed a stormwater management plan and BMP engineering design for the man-made Brickyard Pond in Barrington, RI after the Rhode Island Department of Environmental Management (RIDEM) prepared a TMDL for the pond to address impairments due to excessive phosphorus.

First, ESS developed a US EPA-approved QAPP for this project to ensure the collection of high-quality primary data and appropriate use of secondary data in meeting project goals. Then, data collection and analysis were used to estimate the annualized phosphorus loading from each stormwater and non-stormwater source. This included field reconnaissance, which was completed along the shorelines of the pond to document and map specific areas of erosion to quantify the levels of loading. Sediment samples and in-pond water quality profiles completed during the warm season captured the extent of anoxia and potential phosphorus release in bottom waters. Additionally, waterfowl inputs were assessed through dedicated and opportunistic surveys. Finally, ESS prioritized management actions and developed conceptual designs and approaches to address both the stormwater and non-stormwater sources of phosphorus.

Town of Tiverton – RIPDES MS4 Stormwater Compliance Services – Tiverton, RI. Assists Town with the development of a Scope of Work and Implementation Plan to address fecal coliform sources identified in the Mt. Hope Bay and the Upper Kickemuit River Estuary total maximum daily load (TMDL). As part of the ongoing work to reduce these sources, developed an educational stormwater brochure targeted to residents in the TMDL priority watersheds. Also designed and conducted an illicit discharge detection and elimination study for these priority watersheds. Provides stormwater outfall sampling and annual reporting required for compliance with the small Municipal Separate Storm Sewer Systems (MS4) permit issued through the Rhode Island Pollutant Discharge Elimination System (RIPDES) program.

United States Navy – Illicit Discharge Tracking – Naval Station, Newport, RI. As part of the illicit discharge tracking and elimination program, conducted GPS-aided field tracking of dry-weather flow from storm water outfalls within the Station boundaries. Supported the project with GIS storm water feature mapping, outfall sampling and report writing. Additionally, helped coordinate updates to the overall storm drainage system map for the Station. Illicit discharge detection was completed as part of Naval Station Newport's Phase II Storm Water Management Plan (SWMP) in order to comply with the Rhode Island Pollution Discharge Elimination System (RIPDES) regulations as required by the Environmental Protection Agency (EPA) under the Clean Water Act.



STACEY SNOW, PE, ENV SP Senior Environmental Compliance Engineer

Experience

ESS Group: 2017 to present

Years of Prior Related

Experience: 31

Education

MS, Civil and

Environmental Engineering,

University of Rhode Island

BS, Chemical Engineering,

University of Rhode Island

Professional

Certifications

Professional Engineer,

Rhode Island

Envision Sustainability

Professional

Qualifications

Stacey Snow is a Professional Engineer with more than 30 years of environmental consulting, engineering, and environmental health and safety regulatory experience at industrial, military, and academic facilities. Stacey serves as ESS's in-house Health, Safety, and Environmental Manager and her consulting experience includes safety and environmental permitting, planning and reporting; regulatory compliance seminars and training; environmental, safety, and health auditing; air permitting and compliance; and risk management and contingency planning. Stacey has been responsible for managing compliance programs related to ISO 14001, Title V, hazardous waste, wastewater, stormwater, EPCRA, and SPCC. She has an Envision Sustainability Professional credential from the Institute for Sustainable Infrastructure. Additionally, she served as a Chemical Engineering instructor at the University of Rhode Island.

Representative Project Experience

US Wind – Maryland Offshore Wind Energy Project – Maryland Wind Energy Area. Coordinated preparation of Construction and Operations Plan for the construction of an offshore wind energy project in the Maryland Wind Energy Area. Prepared air emissions calculations using the Bureau of Ocean Energy Management Offshore Wind Energy Facilities Emission Estimating Tool.

Food Manufacturing Facility – Sustainability Program – Massachusetts. Provided guidance and strategic planning support for sustainable business practices related to greenhouse gas emission reduction and waste diversion. Coordinated data collection, prepared calculations and completed sustainability reporting for CDP (formerly Carbon Disclosure Project), WasteWise, Food Recovery Challenge and Project Gigaton. Prepared communications pieces to share sustainability successes with senior management and plant employees.

LeachGarner – Environmental Reporting – Massachusetts. Prepared Toxic Release Inventory, Toxic Use Reduction, Tier II Hazardous Materials and Source Registration reports. Prepared Stormwater Pollution Prevention Plan and Spill Prevention Control and Countermeasure Plan updates. Provided stormwater program support including sampling, monitoring, inspections and reporting.

The Spencer Turbine Company – Environmental, Safety and Health Management System – Connecticut, Ohio, Arkansas. Established Environmental, Safety and Health Management System including corporate oversight structure, training plan and compliance calendar. Created and implemented multiple safety and health programs including crane safety, lockout/tagout, personal protective equipment, new employee orientation, machine guarding and hazard communication. Provided training, auditing, incident investigation and recordkeeping services for multiple Spencer facilities.

Sensata Technologies – Environmental Audits and Reporting – Massachusetts. Conducted multiple environmental compliance audits in support of the facility ISO 14001 program. Completed hazardous waste biennial report.

Prior Related Experience

ARCADIS – Project Environmental Engineer – Warwick, RI:

Environmental and Safety Plans and Reports. Prepared environmental and safety plans and report for various facilities including Spill Prevention Control and Countermeasure (SPCC) plans, Storm Water

Pollution Prevention (SWPP) plans, Process Safety Management (PSM) plans, Chemical Hygiene Plans, Environmental Management System plans, and Hazardous Waste Management plans. Typical reports included Emergency Planning & Community Right-to-Know (EPCRA) Tier II reports, EPCRA Toxic Release Inventory (TRI) reports, air emission inventories, hazardous waste biennial reports, recycling reports, and water withdrawal reports.

Air Permitting and Compliance. Responsible for preparing air permit applications, air emission inventories, Title V compliance certifications, air permit recordkeeping databases, and Best Available Control Technology (BACT) analyses for various manufacturing facilities.

Regulatory Compliance Seminars and Training. Presented at educational seminars and in-plant trainings on various environmental, safety and health topics including hazardous waste management, OSHA hazard communication standard and chemical hygiene standard, emergency response, SPCC, SWPP, and Department of Transportation (DOT) hazardous material regulations.

Environmental, Safety and Health Audits. Conducted comprehensive environmental, safety and health audits for various types of facilities. Prepared audit checklists, conducted site walkthroughs, and prepared audit reports including compliance deficiencies and recommendations for compliance strategies and program improvements.

Risk Management and Contingency Planning. Prepared integrated contingency plans, hazardous waste contingency plans, spill prevention control and countermeasure plans and emergency evacuation plans. Conducted OSHA PSM and United States Environmental Protection Agency (USEPA) Risk Management Program (RMP) process hazard analysis and audits and prepared PSM/RMP plans.

Ardagh Group – Environmental Health and Safety Manager – Milford, MA. Responsible for managing environmental compliance programs including ISO 14001 environmental management system, Title V operating permit and comprehensive plan approval requirements for glass furnaces and air pollution abatement system, hazardous waste, wastewater treatment system, stormwater, emergency planning and community right-to-know, and spill prevention, control and countermeasure. Responsible for managing safety compliance programs including hazard communication, emergency response, personal protective equipment, bloodborne pathogens, incident investigation and risk management.

LeachGarner – Health, Safety and Environmental Manager – Attleboro, MA. Responsible for managing environmental compliance programs including hazardous waste, stormwater, air emissions, wastewater, site remediation, emergency planning and community right-to-know, and spill prevention, control and countermeasure. Completed “restart” of ISO 14001 environmental management system to increase efficiency, usability and effectiveness. Responsible for managing safety compliance programs including hazard communication, emergency response, personal protective equipment, bloodborne pathogens, industrial hygiene, machine guarding, first aid, DOT hazardous materials, and DHS chemical security. Conducted hazard assessment survey and process hazard analysis for key industrial equipment. Managed the safety committee and conducted periodic safety audits. Coordinated industrial hygiene assessments for noise and chemical exposure.

University of Rhode Island – Chemical Engineering Instructor – Kingston, RI. Instructor for Chemical Engineering Senior Laboratory course designed to demonstrate the practical application of chemical engineering principles with an emphasis on integrating safety processes into lab procedures. Lectures include a review of the Occupational Safety and Health Administration (OSHA) Process Safety Management (PSM) program and case studies of chemical related industrial accidents.

University of Rhode Island - Chemical Hygiene Officer – Kingston, RI. Established and maintained appropriate protocols and oversight for all areas of the University that contain hazardous chemicals. Ensured proper management of chemicals including storage, inventory, usage, and disposal. Provided training for laboratory and support personnel exposed to chemicals, including instruction regarding the safe use, storage, and disposal of chemicals, as well as emergency procedures and regulatory requirements. Training topics included hazard communication, nanotechnology safety and process safety management. Inspected laboratories and other areas of campus that contain hazardous chemicals to ensure compliance with environmental health and safety and hazardous waste regulations. Managed the safety shower and eyewash inspection and testing program and provided emergency response for chemical related incidents.

Naval Education and Training Center – Environmental Engineer – Newport, RI. Managed the Hazardous Waste Program to ensure that all hazardous waste was properly characterized, stored, transported, and disposed. Managed the Oil and Hazardous Spill Contingency Planning Program including EPCRA planning and reporting. Managed the underground storage tank (UST) program to prevent oil releases to the environment and to coordinate remediation of past releases. Implemented wastes minimization programs that reduced hazardous waste disposal by 200,000 pounds. Responsible for the hazardous material control and management program including establishing hazardous material inventories, acquisition controls, and screening procedures. Management responsibilities also included the solid waste, recycling, and medical waste programs. Emergency Response Program responsibilities included supporting the base fire department as a Hazardous Materials Specialist.



STEPHANIE MARTIN Environmental Scientist

Experience

ESS Group: 2013 to present

Years of Prior Related

Experience: 8

Education

BS, Earth

Science/Geology,

Bridgewater State

University, 2012

Professional

Registrations

OSHA 40 hour

HAZWOPER and 8 hour

refresher training

OSHA 8-hour HAZWOPER

Supervisor training

5 Hour Cold Water Survival

Skills and Boating Safety

Workshop

Qualified Preparer of

SWPPP and Compliance

Inspector of Stormwater, RI

Qualifications

Ms. Martin is an environmental scientist with over eight years of experience in the collection and analysis of a wide range of data types. She regularly provides technical and regulatory support for large, complex coastal and marine projects. Ms. Martin's experience includes, environmental monitoring, field surveys and data collection, environmental policies and regulatory programs, visuals studies, and remediation strategies. Her hands-on field sampling experience has included geophysical and geotechnical surveys, water quality sampling, sediment sampling and classification, and sound surveys.

Representative Project Experience

Town of Windsor Locks – MS4 Stormwater Compliance Monitoring – Windsor Locks, CT. Manages the annual MS4 and stormwater monitoring efforts on behalf of the Town's Public Works Department. All field sampling and laboratory analyses are reported to the Town for the required annual filing with CTDEEP.

Town of Windsor – Industrial Stormwater Compliance Monitoring – Windsor, CT. Manages the quarterly industrial monitoring efforts on behalf of the town Engineering Department. All field sampling and laboratory analyses are reported to the Town for the required annual filing with CTDEEP.

Town of Rocky Hill – MS4 and Industrial Stormwater Compliance Monitoring – Rocky Hill, CT. Manages the annual MS4 and industrial stormwater monitoring efforts on behalf of the Town's Engineering Department. All field sampling and laboratory analyses are reported to the Town for the required annual filing with CTDEEP.

Town of Enfield – MS4 and Industrial Stormwater Compliance Monitoring – Enfield, CT. Conducted the annual and quarterly NPDES MS4 and Industrial Stormwater Monitoring for the Town of Enfield. Stormwater monitoring included the collection of stormwater from six (6) MS4 Outfall Monitoring locations and the visual monitoring of one (1) Industrial Monitoring Location. All field sampling and laboratory analyses are reported to the Town for the required annual filing with CTDEEP.

Town of Vernon – NPDES MS4 Stormwater Monitoring – Vernon, CT. Conducted NPDES MS4 Stormwater Monitoring for the Town of Vernon. Stormwater monitoring included the collection of stormwater from six (6) MS4 Outfall Monitoring locations. All field sampling and laboratory analyses are reported to the Town for the required annual filing with CTDEEP.

Green Pond Marina – Stormwater Compliance – East Falmouth, MA. Assisted in conducting a Comprehensive Site Inspection (CSI) in accordance to the facility's Stormwater Pollution Prevention Plan (SWPPP), Multi-Sector General Permit (MSGP) requirements. Collected stormwater samples for laboratory analysis in support of the facility's 2014 stormwater compliance sampling program.

Long Pond – Water Quality Assessment – Little Compton, RI. Collected water quality data and surface water samples for laboratory analysis of total phosphorous, dissolved phosphorous, total Kjeldahl nitrogen, nitrate nitrogen, herbicides, and bacteria. Collected water quality data on Secchi disk depth, pH, and turbidity. Generated water column profiles of temperature, dissolved oxygen, and conductivity with salinity and assisted in preparing a report to interpret the results of the water quality assessment.

Jay Packaging Group, Inc. – Stormwater Compliance – Warwick, RI. Conducted quarterly visual monitoring of stormwater outfalls in support of the stormwater compliance program at the Jay Packaging facility in accordance with the facilities Stormwater Pollution Prevention Plan (SWPPP) and the Rhode Island Pollutant Discharge Elimination System (RPDES) Multi-Sector General Permit (MSGP) requirements.

Hudson Transmission Partners – Submarine Cable Removal and Reconductoring – New York & New Jersey. Provided onsite environmental compliance observation and reporting for the removal of a 3-phase self-contained fluid filled (SCFF) submarine cable in the Hudson River between North Bergen, NJ and lower Manhattan. Conducted field inspections of construction activities, consulted with NYSDPS and NYSDEC staff to determine compliance, and provided contractors with recommendations for preventative and remedial action to ensure compliance with all applicable environmental statutes, regulations, and permit conditions

Poseidon Transmission, LLC – Poseidon Submarine Transmission Cable Project – Long Island, New York and Raritan Bay, New Jersey. Served as an Environmental monitor during the Geophysical and Geotechnical Survey for the Poseidon Submarine Transmission Cable Project. The Project will provide 500 MW of power from sources in PJM into the Long Island electricity market, by way of a new east-west pathway for transmitting electricity that enhances the reliability of the transmission system. The cable will run from a landfall in Long Island, New York to a landfall location in Northern New Jersey along Raritan Bay. Ms. Martin's responsibilities included marine mammal observation and documenting the survey vessel's daily activities to ensure all activities were conducted in accordance with the project plans and permits.

Cape Wind Associates, LLC – Cape Wind Offshore Renewable Energy Generation and Submarine Cable Project Geophysical and Geotechnical Surveys, Season II – Nantucket Sound, MA. Served as a client representative for Cape Wind Associates, LLC onboard a survey vessel during Season II of the Geophysical and Geotechnical Survey for the proposed wind farm. Ms. Martin was responsible for documenting the survey vessel's daily activities, ensuring that all activities were conducted in accordance with Cape Wind's permit conditions, and serving as a liaison between on-shore client support and the offshore survey crew. Equipment utilized during geophysical and geotechnical surveys included a depth sounder, water column velocity profiler, motion sensor, side-scan sonar, marine magnetometer, shallow penetration sub bottom profiler (chirp), and a medium-penetration sub-bottom profiler (boomer).

North Bergen Liberty Generating Interconnection – North Bergen, NJ and New York City, NY. Served as a client representative onboard a survey vessel during the marine geophysical and geotechnical survey for the proposed submarine cable. Processed sediment cores as part of the geophysical survey and vibracore sampling, coordinated laboratory analysis for chemical and physical characteristics of the sediment. Assisted with the preparation of the Submarine Cable Route Field Evaluations Report, which presented the methods of the geotechnical field investigations, vibracore collection and physical and chemical sediment sampling analytical results.

Friends of Lily Pond – Pre-Treatment and Post-Treatment Plant Monitoring – Newport, RI. Assisted in assessing the plant community of Lily Pond to satisfy the monitoring and reporting requirements set by the Coastal Resources Management Council (CRMC) for managing nuisance aquatic vegetation. In addition to assisting in a thorough plant survey, Ms. Martin collected surface water samples for laboratory analysis of total phosphorus and collected dissolved oxygen, temperature, pH, conductivity and turbidity data of the surface water.

SMM New England Corporation – Noise Measurement and Assessment – Johnston, RI. Conducted a sound study for SIMS Metal Management, a metals processing facility, located in Johnston, Rhode Island. Collected and analyzed long term and short-term sound level data at several locations in and around the Facility. Data collected and analyzed consisted of 1/1 and 1/3 A-weighted octave bands including equivalent sound levels and percentile levels for comparison to the ordinance limits for the town of Johnston, Rhode Island.



ROGER E. GOSCIMINSKI Environmental Engineer

Experience

ESS Group, Inc.: 2007 to present

Years of Prior Related Experience: 6

Education

BS, Chemical Engineering,
University of New Haven,
2000

MS, Environmental
Engineering, Concentration
in Water Resources,
University of New Haven,
2004

Professional Registrations

Engineer-In-Training (EIT),
State of Massachusetts,
Certificate # 20898, April
2004

Toxic Use Reduction (TUR)
Planner

TUR Resource
Conservation Planner

TUR Environmental
Management System
Planner

Certifications/Affiliations
40-Hour Hazardous Waste
Operations & Emergency
Response Certified

DOT Hazardous Materials
Transportation Certified

Center for Chemical
Process Safety (CCPS)
Process Safety
Management Certified

Ammonia Safety and
Training Institute –
Ammonia Training,
Emergency Shutdown,
Evaluating Hazards, Risks,
and Threats Certified

Qualifications

Mr. Gosciminski is an environmental engineer with more than 20 years of experience in environmental engineering and multi-media compliance management. He has provided environmental, health, and safety compliance support for manufacturing operations that include preparation of compliance plans, environmental reporting, training of plant personnel, and associated technical and regulatory analysis. He has also assisted in the preparation of environmental impact studies for new project development, soil, and groundwater monitoring to assess existing conditions, and environmental site assessments to support property transaction.

Representative Project Experience

Town of North Providence – Stormwater BMP Design and Utility Study – North Providence, RI. As a Field Engineer, Roger assisted the Town of North Providence in wet-weather sampling to identify sources of bacteria and potential illicit discharges. The results of this work led to selection of specific outfalls for retrofit of BMPs to abate water quality impairments to Woonasquatucket River.

Confidential Client – MSGP Required Inspections and Sampling – Massachusetts. Responsible for EPA's Multi-Sector General Permit's (MSGP) required inspections and sampling. The inspections included monthly site inspections and the comprehensive site inspection. The sampling included quarterly visual monitoring and analytical sampling of the stormwater samples collected at two outfalls. Coordinated a clean out of storm drains and catch basins.

Green Pond Marina – MSGP Required Inspections and Sampling – East Falmouth, MA. Responsible for EPA's Multi-Sector General Permit's (MSGP) required inspections and sampling. The inspections included the annual comprehensive site inspection. The sampling included quarterly visual monitoring and analytical sampling of the stormwater samples collected at three outfalls.

Jay Packaging – Industrial Stormwater Compliance Monitoring – Warwick, RI. Updated the SWPPP for a packaging facility. Oversees and conducts quarterly stormwater visual and analytical monitoring compliance services for multiple outfalls. Conducted the comprehensive site inspection. Results are reported to the client for internal filing and Discharge Monitoring Reports are submitted to RIDEM.

State Line Scrap – Stormwater Pollution Prevention Plan and Spill Prevention, Control, and Countermeasure Plan – Attleboro, MA.

Updated the SWPPP, which included analyzing facility drainage, updating outfall and sampling locations, updating Best Management Practices to assure impacts are minimal, and updating management practices to ensure the facility's stormwater plan will adequately protect the waters of the state. Prepared a SPCC plan, which included a description of fuel and oil storage and handling procedures, facility drainage patterns, inspections, and emergency response procedures.

Masters of Design – Stormwater Pollution Prevention Plan – Attleboro, MA. Updated the SWPPP for jewelry manufacturing facility. Activities related to the update of the SWPPP included analyzing facility drainage, updating potential pollutants, determining the impacts of pollutants on stormwater, updating Best



Management Practices to assure impacts are minimal, and updating management practices to ensure the facility's stormwater plan will adequately protect the waters of the state.

Confidential Client – MSGP Required Inspections and Sampling – MA. Responsible for EPA MSGP-required inspections and sampling. The inspections included monthly site inspections and the comprehensive site inspection. The sampling included quarterly visual monitoring and analytical sampling of the stormwater samples collected at two outfalls. Coordinated a cleanout of storm drains and catch basins.

Schnitzer Northeast – Industrial Stormwater Compliance Monitoring – Attleboro, MA. Oversees and conducts quarterly stormwater monitoring compliance services for multiple outfalls at the metals recycling facility in Attleboro. Results are reported to the client for required filings.

Schnitzer Northeast – SWPPP and SPCC Plan Update – Attleboro, MA. Updated the SWPPP and SPCC Plan for a metals recycling facility in Everett.

New Athens Generating Company, LLC – SPCC Plan Update – Athens, NY. Updated the SPCC Plan for an electric power generating station consisting of three, combined-cycle, combustion turbine electric power generating units and supporting equipment.

Clark Cutler McDermott Company – SWPPP and SPCC Plan – Franklin, MA. Prepared the SWPPP and SPCC Plan for an acoustic insulation and interior trim product manufacture facility in Franklin. Conducted SWPPP training and conducted training for visual monitoring of two outfalls.

ReSteel Supply Company, Inc. New England– SWMP – Warwick, RI. Prepared the SWMP for an acoustic insulation and interior trim product manufacture facility in Franklin. Conducted SWPPP training and conducted training for visual monitoring of two outfalls.

Manufacturing Facilities – MSGP No Exposure Certification. Reviewed facilities operations and reviewed and completed the No Exposure Certification Form, Appendix K of the 2015 MSGP.

Confidential Energy Facility – Technical Support to Defend against Citizen Suit under the Clean Water Act and continue support of MSGP required sampling. Responsible for providing permitting, compliance, and litigation support for an electric, steam, and chilled water generation facility served with a 60-day notice of intent to sue under the Clean Water Act. Worked closely with the facility owner and their attorney to develop strategies for resolving the complaint through legal settlement and participated in settlement negotiations. Provided technical solutions that balanced compliance with NPDES MSGP requirements with cost effectiveness and speed of implementation. Responsible for EPA's MSGP-required sampling. The sampling included quarterly visual monitoring and analytical sampling of the stormwater samples collected at three outfalls.



JAMES TREACY Environmental Scientist

Experience

ESS Group: 2012 to present

Years of Prior Related
Experience: 1

Education

BS, Environmental Biology,
Bridgewater State University

Professional Certifications

Constructed Wetlands for
Stormwater Management
(2017)

New York State Erosion and
Sediment Control Training
(2015)

Society for Freshwater
Science – Certified
Taxonomist: Eastern
Ephemeroptera, Plecoptera,
and Trichoptera,

Professional Registrations
OSHA 40 hour HAZWOPER
(2017)

Qualifications

Mr. Treacy is an environmental scientist that has performed various natural resource and ecological field investigations, including vegetative surveys and mapping, wildlife surveys, macroinvertebrate sampling and analysis, watershed and water quality assessments, construction compliance monitoring, geophysical and geotechnical surveys.

Mr. Treacy has worked on a number of vegetative mapping survey projects during his time at ESS. These projects include but are not limited to wetland delineations, vegetation plots and aquatic plant mapping. Mr. Treacy has been responsible for identification of both native and non-native aquatic and terrestrial plant species.

Mr. Treacy has worked on numerous jobs where he was been responsible for the sorting, enumerating and identification of macroinvertebrates. Mr. Treacy has experience in the collection and handling of both marine and freshwater benthic macroinvertebrate samples and has received a taxonomist certification from the Society of Freshwater Science for genus level identification of Eastern Ephemeroptera, Plecoptera, and Trichoptera.

Mr. Treacy has served as the environmental construction monitor and also stormwater inspector for a transmission line re-build project in up-state New York.

Representative Project Experience

Town of Rocky Hill – Municipal Separate Storm Sewer System (MS4) Monitoring – Rocky Hill, CT. Visited six stormwater outfalls throughout the town during a rain event, collected water samples, took *in situ* measurements using water quality instruments, and prepared reports. All field sampling and laboratory analyses are reported to the Town for the required annual filing with CTDEEP.

Town of Vernon – Municipal Separate Storm Sewer System (MS4) Monitoring and Industrial Stormwater Monitoring – Vernon, CT. Visited stormwater outfalls throughout the town during a rain event, collected water samples, took *in situ* measurements using water quality instruments, and prepared reports. All field sampling and laboratory analyses are reported to the Town for the required annual filing with CTDEEP.

Town of Enfield – NPDES MS4 and Industrial Stormwater Monitoring – Enfield, CT. Conducted the annual and quarterly NPDES MS4 and Industrial Stormwater Monitoring for the Town of Enfield. Stormwater monitoring included the collection of stormwater from six (6) MS4 Outfall Monitoring locations and the visual monitoring of one (1) Industrial Monitoring Location. All field sampling and laboratory analyses are reported to the Town for the required annual filing with CTDEEP.

Town of Simsbury – Industrial Stormwater Monitoring – Simsbury, CT. Visited outfalls at four facilities during a rain event, collected water samples, and prepared reports. All field sampling and laboratory analyses are reported to the Town for the required annual filing with CTDEEP.

Town of Manchester – NPDES MS4 and Industrial Stormwater Monitoring – Manchester, CT. Conducted the annual and quarterly NPDES MS4 and Industrial Stormwater Monitoring for the Town of Manchester. Stormwater monitoring included the collection of stormwater from MS4 Outfall Monitoring

locations and the visual monitoring. All field sampling and laboratory analyses are reported to the Town for the required annual filing with CTDEEP.

LKQ Route 16 Auto Parts – Stormwater Design Services and Permitting Support – Webster, MA.

Mr. Treacy was responsible for investigating the entire perimeter of the LKQ property for evidence of off-site sediment discharge from stormwater runoff originating from the developed portions of the property. The investigation included a wetland between the southern property line and the unnamed stream to the south of the LKQ property that flows into Brown's Brook. Signs of sediment discharge were photographed, and the depth of the sediment documented.

Environmental Protection Agency (EPA), San Juan Watershed Monitoring Program. San Juan Watershed, Colorado, Utah, New Mexico. Following the Gold King Mine spill in 2015, the EPA has worked on a monitoring program that focuses on water sampling and testing at different regions of the San Juan River watershed. Mr. Treacy has assisted with water and sediment sampling and testing throughout the watershed in Colorado, Utah and New Mexico.

Wilcox & Barton, Inc., Water Quality and Biomonitoring Surveys and Ongoing Monitoring Reporting to Inland Wetlands Commission in Support of Major Retail Development. Guilford, CT.

Mr. Treacy has participated in biomonitoring program in Spinning Mill Brook adjacent to the construction site for a 155,000 square foot retail development. Work included sampling the fish community, benthic invertebrate community, aquatic habitat survey, and water quality. Work has been performed for two-baseline years of assessment and is likely to continue annually throughout the construction and operation of the proposed development. Mr. Treacy was responsible for the collection benthic samples and also to sort and identify the benthic organisms.

The Haskell Company – Newport Naval Station – Newport RI: Mr. Treacy was assigned the task of ensuring water quality compliance would be maintained in accordance with the USEPA approved permit during offshore construction work being performed by contractors working for the US Navy. Mr. Treacy was responsible for the mobilization and deployment of solar-powered, remote sensing buoys equipped with YSI turbidity sondes to monitor the water clarity outside of an active dredge construction site. He was also responsible for monitoring and checking real-time turbidity data as it was reported and maintained the sonde via regular site visits. If water quality was found to be out of compliance with the allowable thresholds for the project, Mr. Treacy worked to alert the appropriate ESS and Contractor personnel to ensure that the issues could be rectified immediately to minimize the threat to the environment and to allow construction to resume as quickly as possible.

Providence Water Supply Board – Limnological Study of Five Secondary Reservoirs – RI: Mr. Treacy assisted with the aquatic plant mapping, water quality testing and groundwater sampling at the five secondary reservoirs for the Providence Water Supply Board. Mr. Treacy also participated in the wildlife study at two separate tributaries of the Barden Reservoir (Hemlock Brook & Dolly Cole Brook). Wildlife study tasks included the deployment and maintenance of six remote field cameras as well as participating in a winter track animal survey. Mr. Treacy also assisted with 2018 Providence Water Secondary Reservoirs report.

Rhode Island Department of Environmental Management – Stream Rapid Biomonitoring – RI. Conducted stream health assessments at dozens of locations throughout the state. Collected water quality data, collected chlorophyll-a samples from stream substrates, characterized the composition of stream substrate, estimated canopy cover over streams, and collected benthic macroinvertebrate grab samples. Sorted and enumerated samples of freshwater macroinvertebrates and detritus from stream locations throughout the state. Invertebrate samples were sorted by taxonomy using a randomized grid selection method.