

CHARLOTTE COUNTY

PURCHASING DIVISION

18500 Murdock Circle, Suite 344
Port Charlotte, Florida 33948



WATER ELEVATION MONITORING SERVICES – ANNUAL CONTRACT

RFP No.: 2260423

June 3, 2026

SECTION 1

PROPOSED TEAM FOR THIS PROJECT

Section I — Team Proposed for This Project

Charlotte County RFP No. 20260423, Water Elevation Monitoring Services, Annual Contract

Part I of the Consultant Evaluation Form addresses the background of the personnel proposed for this project, including the Project Manager, other key personnel, and the consultants. is submitting as the **prime** consultant and single point of accountability for the entire water elevation monitoring network, from site selection through five (5) years of operation, maintenance, and technical support. EGS leads a focused team in which each specialty sub-consultant is engaged only where it adds clear value, so the County contracts with one accountable firm rather than a loose collection of vendors.

I.A Background of the Personnel

I.A.1 Project Manager

Matt Landschoot, Professional Engineer (P.E.), Senior Geotechnical Engineer and Vice President, serves as Project Manager and is the County's single point of accountability for this contract. Mr. Landschoot directs overall operations, owns every County-facing commitment, and coordinates the EGS workstream leads and all sub-consultants. **EGS commits that Mr. Landschoot will not be substituted as Project Manager without the County's express written permission.** He is supported by EGS's deep bench of professional engineers, field technicians, and software specialists across the firm's Florida offices.



I.A.2 Other Key Personnel

Sushrit Kafle, Director of Emerging Technologies, serves as the **Platform, Application Programming Interface (API), and Visualization Lead**. Mr. Kafle directs EGS's in-house technology bench, which includes expertise in API development, emerging technology, artificial intelligence, software coding, and software design and deployment. This capability allows EGS to operate the proposed commercial platform, integrate it with any County system, or custom-build a County specific platform or API functionality if the County ever requires it. Sushrit is at the forefront of the current technological advancements that are occurring in the software space, and is positioned to assist the County with any issues or needs they may have for the duration of this Contract.



Vaishnavi Deshmukh, Forward Deployed and Machine Learning Engineer, serves as the **Technical Support and Training Lead**. Ms. Deshmukh will manage the end-user help-desk model, the County training program, and the data-fluency curriculum that ensures Emergency Management, Public Works, Utilities, and Water Quality staff use the network confidently. Ms. Deshmukh is fluent in virtually every current program, coding language, and technology that exists in the market currently, and is a thought leader in the adoption of emerging technologies to aid governmental agencies throughout the State.



Josh Nelson, Senior Engineering Technician, serves as the **Field Operations Lead**, responsible for installation, commissioning, preventive and corrective maintenance, and storm-response field mobilization. He is supported by **Everett Puckett** and **Carter Lane**, Senior Engineering Technicians, who provide field operations support across the network so that response is never dependent on a single individual. In addition to Mr. Puckett and Mr. Lane, Mr. Nelson also has a deep bench of field technician support, as EGS has over 20 field technicians across the State of Florida that can be immediately mobilized to Charlotte County either before, during, or after a storm event to ensure that the County receives continuous monitoring services throughout the duration of the event.



I.A.3 Consultants (Sub-Consultants)

EGS proposes the following sub-consultants, each named to a specific scope on the project organizational chart:

Sub-Consultant	Key Person	Role on This Contract
Fondriest Environmental	Steve Fondriest	Field instrumentation and software; equipment supplier and support; meets the RFP minimum-qualification requirements for monitoring equipment.
WGI	Allen Quickel, PSM	Surveying support; Florida-licensed Professional Surveyor and Mapper for NAVD88 control. WGI also has structural engineers who can provide the Florida-licensed Professional Engineer approval for the monitoring-station mounts, should it be required.
Eurofins	Matthew Foti, Ph.D.	Water quality testing support services, if requested.
Lochner	David Tyler, P.E.	Stormwater modeling support services, if requested. Additional structural engineering support for the monitoring station mounts, should it be required.
INTERA	Mark Gosselin, Ph.D., P.E.	Coastal engineering support services, if requested. Coastal modeling services, bridge scour evaluation services, and other coastal engineering design support.
Taylor Engineering	Austin Cannon	Coastal engineering support services, if requested. Coastal modeling services, bridge scour evaluation services, and other coastal engineering design support.

Resumes for each individual above are provided in the Resumes attachment, and the reporting relationships are shown on the project organizational chart in Section II. Cellular connectivity, data-plan management, and overall network operation are retained and performed in-house by EGS.

PROJECT ORGANIZATIONAL CHART

Charlotte County Water Elevation Monitoring (RFP 20260423)

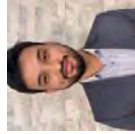


Environment Testing



Matt Landschoot, P.E.

Project Manager
Senior Geotechnical Engineer / Vice President



Sushrit Kafle

Platform, API & Visualization Lead
Director of Emerging Technologies



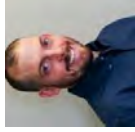
Vaishnavi Deshmukh

Technical Support & Training Lead
Forward Deployed / IML Engineer



Everett Puckett

Field Operations Support
Senior Engineering Technician



Josh Nelson

Field Operations Lead
Senior Engineering Technician



Carter Lane

Field Operations Support
Senior Engineering Technician

INTERA

Mark Gosselin, Ph.D., P.E.
Coastal Engineering Support

Taylor Engineering

Austin Cannon
Coastal Engineering Support

Lochner

David Tyler, P.E.
Stormwater Modeling Support

Eurofins

Matthew Foti, Ph.D.
Water Quality Testing Support

Fondriest Environmental

Steve Fondriest
Equipment Supplier / Equipment Support

WGI

Allen Quickel, PSM
Surveying Support



Matthew R. Landschoot, P.E.

Senior Geotechnical Engineer
Vice President



EDUCATION

BACHELOR'S DEGREE

Civil Engineering
Florida State University
2008

Florida Engineering Leadership
Institute (FELI) Graduate: 2014

PROFESSIONAL CREDENTIALS

Professional Engineer in
Florida: (76183) – Obtained
5/2013

Florida Engineering Society:
Member

American Society of Civil
Engineers: Member

Years of Experience: 17

CONTACT

Email: Matt.Landschoot@egs-us.com

Office: (904) 580-8501

Website: www.egs-us.com

Office Location: Jacksonville

RELEVANT EXPERIENCE

City of Homestead – Professional Architectural and
Engineering Services – Continuing Contracts (Geotechnical
Contract Awarded), Homestead, FL

St. Johns River Water Management District – Continuing
Geotechnical Engineering Services (RFQ No. 36813-1) (2021)
City of Tallahassee CS Contract – Geotechnical Services

Districtwide Miscellaneous Geotechnical and Materials
Consultant to the Florida Department of Transportation,
District 2, Jacksonville, FL

Districtwide Miscellaneous Geotechnical Consultant to the
Florida Department of Transportation, District 3, Chipley, FL

Nassau County Continuing Contract for Professional
Geotechnical and Materials Testing Services
(RFQ No. NC23-016), Jacksonville, FL

Bay County – Professional Geotechnical Engineering Services
Continuing Services Contract, Bay County, FL

Flagler County, Department of Public Works, General Service
Contract (Geotechnical Services), Flagler County, FL

Leon County, Department of Public Works, General Service
Contract (Geotechnical and Environmental Services), Leon
County, FL

Ducks Unlimited – Geotechnical Professional Services
Contract, Southeastern United States

City of St. Marks – Continuing Municipal Engineering Services
(Geotechnical and Environmental Services), St. Marks, FL



Sushrit Kafle

Director of Emerging Technologies



EDUCATION

MASTER'S DEGREE

Computer Science
Southern Illinois University
Edwardsville
2025

BACHELOR'S DEGREE

Civil Engineering
Pokhara University
2022

PROFESSIONAL CREDENTIALS

AWS Certified Machine Learning
Engineer - Associate (May 2025)

Meta Back-End Developer
Specialization (2024)

Years of Experience: 3

CONTACT

Email: Sushrit.Kafle@egs-us.com

Office: (850) 386-1253

Website: www.egs-us.com

Office: Tallahassee

RELEVANT EXPERIENCE

EGS Software Suite: Full-Stack Engineering Data Management and Design Platform - EGS internal platform architected, developed, and administered by Sushrit as Software Engineer for Emerging Technologies. Built as a full-stack Django application deployed on a cloud server with proper system architecture and regular automated data backups, the platform serves as EGS's centralized engineering data management system. Sushrit administers a PostgreSQL database that stores all engineering data including soil boring records, lab results, field observations, and project metadata, with schemas optimized for large-scale datasets and high-performance retrieval. The platform generates outputs in engineering-standard formats, including visualization and project reports rendered directly from the database. Additional capabilities include ETL pipelines for ingesting legacy and field-generated documents into the database, an LLM-powered agentic system using vector search for semantic querying of engineering content, and operational observability through structured logging, metrics, and performance monitoring. The platform is launched and ongoing as of 2025.

GenAI Nowcasting of Marine Fog Visibility, Graduate Research at Southern Illinois University Edwardsville - Research with Dr. Eren Gultepe, building on prior work published at NeurIPS and in Frontiers. Worked hands-on with active-field environmental monitoring data collected during the FATIMA (Fog and Turbulence Interactions in the Marine Atmosphere) campaign aboard the Research Vessel Atlantic Condor in the North Atlantic, in the Grand Banks area and vicinity of Sable Island northeast of Canada, during July 2022. Advanced marine fog nowcasting using RNN-based sequence modeling with a novel generative pipeline, and applied multivariate generative modeling for improved visibility forecasting, contributing to environmental monitoring.

Software Engineer at Silicon Soft and I.T. Consultant Pvt. Ltd., - Engagement on a dynamic SaaS ERP platform. Built, maintained, and tailored a Web API in .NET Core, designing and mapping key REST API endpoints to align with diverse client needs and increase client satisfaction. Managed a large-scale database supporting the ERP product. Streamlined codebase efficiency, reducing redundant code by 30 percent. Collaborated in Agile teams using Git, Jira, and CI/CD pipelines, delivering iterative releases and resolving critical bugs ahead of schedule.



Vaishnavi B. Deshmukh

Forward Deployed Engineer
Machine Learning Engineer



EDUCATION

MASTER'S DEGREE

Computer Engineering
New York University

2025

BACHELOR'S DEGREE

Computer Engineering
Mumbai University

2021

PROFESSIONAL CREDENTIALS

Years of Experience: 2

CONTACT

Email:
vaishnavi.deshmukh@egs-us.com

Office: (850) 536-8363

Website: www.egs-us.com

Office: Tallahassee

RELEVANT EXPERIENCE

University of Montana Machine Learning Platform: Distributed Training, Real-Time Inference, and Production Quality Assurance - Production machine learning platform architected, developed, and operated by Ms. Deshmukh as Machine Learning Engineer at the University of Montana. Built on distributed Ray and MLflow pipelines with versioned artifacts, the platform delivers reproducible feature generation and consistent offline-to-online parity, with low-latency real-time inference services in FastAPI and Redis sustaining sub-200 millisecond response times under concurrent production workloads. Additional capabilities include feature validation, drift detection, and automated retraining triggers for long-term prediction stability, along with structured logging and performance monitoring across data loading, batching, and inference execution paths. The platform is launched and ongoing as of 2025.

Large-Scale Document Processing and Validation Platform, Graduate Student Assistant at New York University - Engineering and applied research with the NYU Computer Engineering program, supported by coursework in ML Systems, Distributed Systems, Parallel Computing, and MLOps. Ms. Deshmukh built an end-to-end ML platform combining OMR detection, OCR extraction, validation, and scoring across high-volume document corpora, reducing manual review workload by approximately 45 percent. Designed a two-pass inference architecture separating recall-oriented extraction from precision validation, improving error handling and system-level robustness at scale. Integrated RAG evaluation tooling with structured logging, experiment tracking, and MLflow artifact versioning to support reproducible pipelines and full audit trails. Active from May 2024 through May 2025.

Backend Engineer at Gametion Technologies Pvt. Ltd. -

Engagement on a globally distributed real-time gaming backend. Ms. Deshmukh scaled distributed backend services supporting more than 51 million daily active users under strict sub-100 millisecond latency SLAs, building and deploying AWS-hosted REST APIs with autoscaling and zero-downtime pipelines. Designed MongoDB schemas and Redis caching layers optimized for approximately 35,000 IOPS to power real-time leaderboard and state synchronization systems. Active from February through August 2022.



Carter Lane

**MOT – Qualified Worksite
Traffic Supervisor**



EDUCATION

Lawton Chiles High School
– Diploma
2022

CONTACT

Email: carter.lane@egs-us.com
Office: (850) 386-1253
Website: www.egs-us.com

FDOT JOB CLASSIFICATION INFORMATION

- High School Graduate: **Yes (Lawton Chiles H.S. - 2022)**
- Industry Experience: **3 Years**
- CTQP Qualifications: **Yes**
- AMOT Officer Certification: **Yes**
- EGS Hire Date: **5-1-2023**
- FDOT Job Classification: **MOT – Qualified Worksite Traffic Supervisor**

EXPERIENCE REQUIREMENTS FOR POSITION

- AMOT Officer Certification (Expires 12-17-28)
- ACI Aggregate Testing Technician – Level 1 (Expires 11-7-28)
- ACI Aggregate Base Testing Technician (Expires 10-20-28)
- Earthwork Construction Inspection – Level 1 (Expires 9-19-28)
- Earthwork Construction Inspection – Level 2 (Expires 9-21-28)
- CTQP LBR Technician (Expires 7-18-28)
- FDOT Approved Temporary Traffic Control (TTC): Advanced Course (Expires 12-17-28)



Joshua W. Nelson

**MAT Senior Engineering
Technician**



EDUCATION

HIGH SCHOOL DIPLOMA-

**Lawton Chiles High
School**

2002

CONTACT

Email: Josh.Nelson@egs-us.com

Office: (850) 383-1551

Website: www.egs-us.com

FDOT JOB CLASSIFICATION INFORMATION

- High School Graduate: **Yes (Lawton Chiles HS – 2002)**
- Industry Experience: **23 Years**
- CTQP Qualifications: **Yes (See Below)**
- EGS Hire Date: **9-14-2001**
- FDOT Job Classification: **MAT Senior Engineering Technician**

RELEVANT EXPERIENCE

- Over 23 years of Field Management experience, including roadway studies, stormwater design, pavement design, and pavement surveys
- Over 23 years of Verification Testing (VT) experience including asphalt plant inspection and field inspection of earthwork, concrete, asphalt, grouting, and construction operations
- Extensive Experience with Verification Testing (VT) Services utilizing FDOT and FAA Standards
- Asphalt Plant Verification Testing (VT) Inspector for a number of Projects for the FDOT in District 2 and District 3
- Extensive experience with environmental permitting field reviews
- Construction Training Qualification Program (CTQP) Certifications:
 - Asphalt Plant Technician – Level 1 & Level 2
 - Asphalt Paving Technician – Level 1 & Level 2
 - Earthwork Construction Inspection – Level 1 & Level 2
 - AMOT Officer - Yes
- Other Regulatory Agency Certifications:
 - Nuclear Radiation Safety Officer
 - Temporary Traffic Control (TTC / MOT) Advanced Course Certified
 - FAA / FDOT Airfield Pavement Inspection Certified (*Offered by FDOT*)
 - Electrical Resistivity Imaging (ERI) Seminar (*By Advanced Geosciences, Inc*)
 - CPR / First Aid Certified
 - OSHA 40 Hour Health and Safety Certified



Everett N. Puckett



**MOT Traffic Worksite Supervisor
Senior Engineering Technician**

EDUCATION

BACHELOR'S DEGREE

Anthropology and International
Affairs
Florida State University
2012

PROFESSIONAL CREDENTIALS

Years of Experience: 8+

Advanced MOT

Truck Mounting Attenuator
Training Course – Passed

FDOT Concrete Field Inspector

CONTACT

Email: Everett.Puckett@egs-us.com

Office: (904) 580-8515

Website: www.egs-us.com

Office Location: Jacksonville

RELEVANT EXPERIENCE

City of Homestead – Professional Architectural and
Engineering Services – Continuing Contracts (Geotechnical
Contract Awarded), Homestead, FL

St. Johns River Water Management District – Continuing
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Contract (Geotechnical Services), Flagler County, FL

Leon County, Department of Public Works, General Service
Contract (Geotechnical and Environmental Services), Leon
County, FL

Ducks Unlimited – Geotechnical Professional Services
Contract, Southeastern United States

City of St. Marks – Continuing Municipal Engineering Services
(Geotechnical and Environmental Services), St. Marks, FL



Carter Lane

Sr. Engineering Technician



EDUCATION

Lawton Chiles High School
– Diploma
2022

CONTACT

Email: carter.lane@egs-us.com
Office: (850) 386-1253
Website: www.egs-us.com

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- Earthwork Construction Inspection – Level 2 (Expires 9-21-28)
- CTQP LBR Technician (Expires 7-18-28)
- FDOT Approved Temporary Traffic Control (TTC): Advanced Course (Expires 12-17-28)

PERSONNEL RESUME

QUALIFICATIONS SUMMARY

Dr. Foti has a Ph.D. in Organic Chemistry from the University of South Florida. He has extensive experience, including more than 30 years in various management roles in the environmental laboratory industry.

PROFESSIONAL EXPERIENCE

PRESIDENT | *Eurofins Drinking Water and Wastewater Southeast – January 2026 to present*

Provides leadership and strategic direction to ensure the organization achieves its mission, financial goals, and long-term growth targets.

BUSINESS UNIT MANAGER | *Eurofins Orlando – Oct. 2022 to December 2025* - Supervises all laboratory personnel and provides leadership and direction as needed. Responsible for ensuring compliance and integration of facility operation with corporate and regulatory policies and procedures. The Business Unit Manager will serve as a liaison with corporate business partners and will champion Company policies, vision, and mission.

REGIONAL OPERATIONS DIRECTOR/HEALTH AND SAFETY DIRECTOR | *Environmental Conservation Laboratories, Inc., 2009 to 2022*

Managed three multi-state laboratories performing analysis of soil, air, and water in accordance with EPA standardized methodologies utilizing technologies including but not limited to ICP, ICPMS, GC, GCMS, LC, & IC. Responsible for financial performance, production, reporting, staffing, quality, technical support, and health & safety across three facilities with 60 employees producing over \$7M in annual revenue.

LABORATORY MANAGER | *Environmental Conservation Laboratories, Inc. 1998 to 2008*

Responsible for production, reporting, staffing, quality, technical support, and health & safety of 28 employees producing over \$3M in annual revenue.

ORGANIC CHEMISTRY TEACHER | *Kaplan Educational Centers, Inc., Orlando, FL 1993 to 2004*

DOCTORAL CANDIDATE RESEARCH ASSISTANT | *Walt Disney Memorial Cancer Institute at Florida Hospital, Orlando, FL 1994 to 1998*

Conducted research targeted at defining mechanistic actions of experimental drug candidates utilizing computer modelling driven by High Field NMR data. Additional information and publications provided upon request.

EDUCATION

- Ph.D., Organic Chemistry, University of South Florida, Tampa, FL (1998)
- B.S. Chemistry, University of Central Florida, Tampa, FL (1994)

PUBLICATIONS

- Multiple publications both authored and co-authored.

2091 Exchange Court
Fairborn, OH 45324

Phone (937) 426-2151
Fax (937) 426-1125
E-mail Steve@Fondriest.com

Steven J. Fondriest

Professional experience

1999 - Current Fondriest Environmental, Inc. Fairborn, OH

President and Chief Executive Officer

- Founded and established a Great Lakes and Ohio River Valley area sales, service and engineering company with focus on environmental monitoring products
- Actively manage all aspects of the business including field engineering projects
- Setup state-of-the-art environmental projects in the Great Lakes and Ohio River Valley including: USEPA Drinking Water Equipment Evaluation; ORSANCO Early Warning Data Buoy; Allegheny and Monongahela Drinking Water Monitoring; City of Columbus Source Water Monitoring; City of Indianapolis River Monitoring, White Lake; MI Dredging; and many other projects

1999 - Current NexSens Technology, Inc. Fairborn, OH

President and Chief Executive Officer

- Founded and established this technology startup company with emphasis on real-time data acquisition, wireless telemetry and data processing and dissemination via the internet
- Actively participate in the design and development of data logging, telemetry and software products
- Actively manage all aspects of the business including research and development

1985 - 1999 YSI, Inc. Yellow Springs, OH

Director of Research and Development

- Participated on the senior management team where the company grew from \$18M to \$45M in annual revenue
- Led the design and development of water quality measurement instrumentation systems
- Actively participated in the of water quality measurement sensors and systems
- Designed several dissolved oxygen sensors including the patented Rapid Pulsed Oxygen sensor
- Designed temperature, conductivity and optical turbidity sensors
- Led the development of YSI 6-Series multi-parameter water quality sonde, which is now recognized as the leading sensor system for water quality measurements
- Ensured sensor measurement compliance to USEPA standard methods

Mark Gosselin, PhD, PE

Vice President of Coastal Engineering



Years of Experience: 36

Education:

- PhD, 1997, Coastal and Oceanographic Engineering, University of Florida
- MS, 1992, Naval Architecture and Offshore Structures, University of California at Berkeley

Professional Registrations/Affiliations:

- Professional Engineer (Civil), FL, 1999, No. 54594
- Professional Engineer (Civil), LA, 2006, No. 32466
- Member, Florida Engineering Society
- Member, Florida Institute of Consulting Engineers Transportation Committee
- Member, Florida Coastal Hydraulics Council
- Member, American Shore and Beach Preservation Association

Professional History:

- 2013 – Present Vice President of Coastal Engineering
– INTERA Incorporated, Gainesville, FL
- 2002 – 2013 Vice President – Ocean Engineering Associates, Inc., Gainesville, FL
- 1997 – 2002 Chief Engineer – Taylor Engineering, Jacksonville, FL

Mark Gosselin has nearly three decades of experience in coastal processes, nearshore and open channel hydrodynamics, and sediment transport. Dr. Gosselin has served as project manager on hundreds of scour and hydraulics assessments of bridges and coastal structures throughout the country and has served as project manager on numerous coastal engineering studies that have involved wave, hurricane storm surge, riverine flooding, and dam break hydraulic modeling. His experience covers the southeastern U.S., Virginia, Washington, and Puerto Rico, and clients such as state departments of transportations, the Federal Highway Administration, U.S. Army Corps of Engineers districts, the Federal Emergency Management Agency (FEMA), and NASA. He has applied SWAN+ADCIRC, RMA2, FESWMS, AdH, HEC-RAS and other analytical techniques to support Dr Gosselin has authored design guidelines at both the state and federal level for clients including NCHRP, FDOT, SCDOT, and NCDOT.

Project Experience

Development of Scour Countermeasures for the Tom Adams, Ainger Creek, and Midway Blvd. Bridges, Charlotte County, FL. 2025-26. *QC Reviewer.* Project involved developing the design hydraulic conditions and design of both local pier scour and embankment erosion protection at three locations in Charlotte County. Conditions included both storm surge and runoff events. Modeling involved ADCIRC and HEC-RAS applications. Scour countermeasure recommendations included marine mattresses, grout-filled mattresses, and articulating concrete block.

Washington Loop Road Bridge over Prairie Creek Hydraulic

and Scour Analyses, Charlotte County, FL. 2025. *QC Reviewer.* Work involved performing a bridge hydraulic and scour analyses for Washington Loop Road Bridge over Prairie Creek in Charlotte County, FL. The bridge location crossed a FEMA regulatory floodway and required a No-Rise Certification. Work included applying HEC-RAS to assess bridge hydraulics and compare existing and proposed hydraulic conditions. The model results provided the means to calculate scour depths based on FDOT and HEC-18 methodology. Responsibilities involved QC of all work products.

Blackburn Point Bridge Replacement PD&E Study, Sarasota County, FL. 2025–Present. *Project Manager.* Work involved performing wave and hydraulic modeling to support the PD&E evaluation of bridge replacement alternatives. Developed and calibrated a high-resolution ADCIRC+SWAN hydrodynamic model using Hurricane Helene observations to resolve coupled storm surge, currents, and wave conditions within the Gulf Intracoastal Waterway. Generated decision-level hydraulic, wave, and scour design parameters for the Bridge Hydraulic Report (BHR), providing defensible inputs for scour assessment, wave loading evaluation, and alternative screening during the PD&E phase.

Hydraulic and Scour Analysis for the Periwinkle Way Bridge over Joey Canal, City of Sanibel, Lee County, FL. 2024 - Present. *QC Reviewer.* This project involved developing the bridge hydraulic report (BHR) for the replacement of the Periwinkle Bridge over Joey Canal in Sanibel, Lee County, FL. Work involved construction of an ADCIRC model to simulate the 50-, 100, and 500-year storm surge events based on Hurricane Ian (2022), and calculation of scour depths based on Florida Department of Transportation (FDOT) and HEC-18 methodologies. Responsibilities included quality review of all work and the final submittal.

Hurricane Milton Hindcast, Confidential Client, Southwest FL. 2024. *QC Reviewer.* Performing a forensic evaluation of the structural modes of failures during a hurricane requires knowledge of the sequence of events that occur during the storm. Specifically, the client was interested in whether wind, storm surge, or wave loads caused the structure in question to fail.

David Tyler, PE

Drainage Engineer

David Tyler, PE, is a professional engineer with experience in project management, hydrologic and hydraulic analysis, design and permitting, Florida Department of Transportation roadway design, site development, and infrastructure improvements. David's professional experience includes stormwater management facility and conveyance system, watershed modeling, flood mitigation, roadway reconstruction and widening, intersection improvements, bicycle and pedestrian facilities, traffic operations, transportation safety improvements, utility coordination, private site development, and land use planning as well as construction monitoring.

PROJECT EXPERIENCE

Surtax Program Management; Hillsborough County, FL

Owner: Hillsborough County

Supervisor (Task Mgr.) | Project Completion: 2025

In-house support for Hillsborough County staff to deliver projects within the Surtax CIP. Acting as an extension of Hillsborough County to provide management and administrative services in support of the program.

- Led drainage and feasibility evaluations for Countywide safety improvement projects for scope development and preliminary engineering, including floodplain impacts, roadside conveyance review, permit validation, field investigations, and coordination with roadway, environmental, county, and SWFWMD stakeholders to support design recommendations and project advancement.
- Other tasks include overall program management, administrative support, development of procedures and guidelines. Production engineering and design tasks include plans review, pavement design review, project management services, project scheduling, technical services, and minor services, in connection with services being performed by consultants to the county.

Balm Riverview Road/Symmes Road Intersection Roundabout Design; Hillsborough County, FL

Owner: Hillsborough County

Supervisor (Task Mgr.) | Project Completion: 2024

Design services under a task-based contract to reconstruct the existing signalized intersection at Balm Riverview Road/Symmes Road as a new single-lane roundabout with an inscribed diameter of 125 feet and a 20-foot-wide circulating lane, including minor adjustments on Balm Riverview Road to accommodate roundabout entry lanes and roadway deflection north of Symmes Road to accommodate the roundabout center. Design elements span a new traversable truck apron, three approach legs with a travel lane in each direction, new splitter islands with ADA-compliant depressed areas for pedestrians, newly painted crosswalks at each splitter island, and new sidewalks adjacent to the circulatory roadway to accommodate multimodal transportation.

- Supervised the drainage design and stormwater management development for the Balm Riverview Road and Symmes Road Roundabout project in Hillsborough County, FL. Led technical oversight of hydrologic and hydraulic analyses for a 0.24-mile roadway improvement project involving conversion of an existing T-intersection into a single-lane roundabout, roadway widening, sidewalk reconstruction, and stormwater infrastructure upgrades. Directed development of SWMM and ICPR models to evaluate watershed impacts, floodplain conditions, and stormwater attenuation while maintaining existing drainage patterns to Rice Creek. Oversaw design of storm drain systems, curb inlet networks, ditch modifications, and a dry detention basin to mitigate runoff and support roadway safety improvements. Managed preparation and QA/QC review of drainage reports, spread analyses, ditch capacity evaluations, ERP modifications, and permitting documentation to ensure compliance with Hillsborough County, FDOT, and SWFWMD requirements, confirming no adverse impacts to the regional watershed model or downstream flood stages.

McKay Creek Greenway Trail Design, Walsingham Park to John S. Taylor Park; Pinellas County, FL

Owner: Pinellas County Department of Public Works

Supervisor (Task Mgr.) | Project Completion: 2027

Design for 1.6 miles of new multimodal trail, to complete a missing segment of the McKay Creek Greenway Trail, with an alignment wholly within Pinellas County owned lands including a botanical garden, historic center, cultural center, and three separate parks.

- Supervised drainage and stormwater engineering design for the McKay Creek Greenway Trail, a 1.75-mile multi-modal trail project in Pinellas County, FL connecting Walsingham Park to John S. Taylor Park along the McKay Creek corridor. The project included a



YEARS OF EXPERIENCE: 21

EDUCATION:

- Bachelor of Science in Civil Engineering, University of South Florida

PROFESSIONAL REGISTRATION:

- Professional Engineer: FL #74630



Education

B.S./Coastal Environmental Sciences, Flagler College

Licenses/Certifications

Transportation Worker Identification Credential

Licensed sUAS Remote Pilot

Years of Experience

10	10
Total	With firm

Austin Cannon

Environmental Scientist

Mr. Cannon joined Taylor Engineering in 2017 as a full-time environmental scientist after participating in the company's 2016 summer internship program. He focuses primarily on field measurements and construction observation services. Mr. Cannon has experience with a wide range of environmental data collection activities, including habitat mapping, wetlands delineation, listed species assessment, sediment and water quality sampling, tide and current velocity measurements, and construction-phase compliance monitoring. Mr. Cannon has been an sUAS licensed remote drone pilot since 2019 and has flown for local, state, and federal projects. He has experience flying multiple types of drones, including DJI Phantom 4, DJI Mavic, DJI Phantom 4 rtk, and the Skydio X2. Mr. Cannon also performs survey services, including topographic, bathymetric, and specific purpose surveys, that support waterfront, water resources, and coastal engineering projects.

Project Experience

St. Johns River Water Management District Surface Water Hydrologic and Discharge Measurement Services, Multiple Counties, FL (Ongoing) – Staff scientist responsible for conducting bimonthly surface water elevation and discharge measurements at three St. Johns River Water Management District (SJRWMD) monitoring sites in northeastern Florida, including Haw Creek, Little Haw Creek, and Pellicer Creek, in support of a subcontract with Woolpert. Collects streamflow and discharge data using Acoustic Doppler Current Profiler (ADCP) and Acoustic Doppler Velocimeter (ADV) equipment deployed from jon boat or kayak and provides hydrological monitoring services at regular 60-day intervals to support long-term water resource management objectives. Coordinates field scheduling and site access in accordance with project authorization requirements established by SJRWMD. Ensures all collected flow data meets quality standards through rigorous QA/QC review in accordance with SJRWMD protocols.

Hammock Harbour Flushing Study and Environmental Sampling, Flagler County, FL (2022) – Staff scientist collecting current velocity data and sediment and water quality sampling and analysis for a proposed marina basin in Palm Coast, Flagler County, Florida. These analyses are required by the St. Johns River Water Management District as part of a complete permit application.

North Beach Utilities Mixing Zone Study, St. Augustine, FL (2022) – Staff scientist installing tide gauges and current velocity data to assist in the North Beach Utilities (NBU) discharge in the Intracoastal Waterway (IWW) between the 19th and 23rd Streets in Saint Augustine, FL. The purpose of the evaluation is to assess the potential for copper and iron effluent mixing and dispersion in the receiving water to meet the Florida water quality total copper concentration standard and total iron standard and to define the mixing zone necessary to achieve the standard copper and iron concentrations in the IWW. To allow NBU to discharge effluent from the current groundwater discharge to surface water discharge into the IWW, the Florida Department of Environmental Protection (FDEP) requires a mixing study that demonstrates effective mixing within a defined area.

Collier County Comprehensive Watershed Improvement Plan, Collier County, FL (2021) – Staff scientist assisting with permitting for Collier County CWIP plan to partially restore historical flow patterns and water budgets in the Belle Meade Flow Way within the Picayune Strand State Forest. Under this contract, Taylor Engineering will conduct water quality and quantity monitoring and modeling, preliminary design, and environmental permitting.





Allen "Al" Quickel, PSM

Survey

Registrations

Professional Surveyor/Mapper,
FL, #LS6481, 2004

Professional Surveyor/Mapper,
NM, #30973, 2025

Education

Bachelor of Science, Surveying
Engineering - New Mexico State
University, 1999

Certifications

Intermediate Temporary Traffic
Control

FAA Part 107 Remote Pilot Small
Unmanned Aircraft System

Affiliations

Florida Surveying and Mapping
Society

Years of Experience

Total: 27

With WGI: 7

Office Location

Winter Garden

Al is a senior project manager specializing in transportation, geodetic control, and land acquisition surveying services. He draws on his field survey and office production experience to direct field crews and office technicians in producing high-quality deliverables under tight schedules. He is proficient in AutoCAD and MicroStation as a production drafter and survey project technician. Al has experience in Trimble Access and Electronic Field Book data collection/processing software, Trimble Business Center, MicroStation V8i/SS10/OpenRoad Designer, TopoDOT, GeoPAK, and Autodesk Civil 3D software. Al is knowledgeable in the requirements for various FDOT Districts and municipalities.

Relevant Experience

CR 664 along Little Payne Creek Bridge Survey, Hardee County, FL, FDOT District 1, Project Manager. Al was responsible for preparing surveyors' reports, reviewing survey deliverables, and overseeing the overall project delivery. This project was an off-system project for FDOT along approximately 2,000 feet of CR 664 in Hardee County. The ultimate purpose of this project was to provide a survey base for FDOT engineers to design a bridge replacement for the bridge over Little Payne Creek. The survey for this project included a survey of the channel of Little Payne Creek for several hundred feet north and south of the road through heavy woods and wetlands.

SR 93 from North of SR 80 to the Top of Caloosahatchee River Bridge Survey Services, Lee County, FL, FDOT District 1, Project Manager. Al was responsible for the design and control survey to District 1 specifications. This project included terrestrial mobile lidar of a portion of I-75 over the Caloosahatchee River. Using terrestrial mobile lidar to collect pavement elevations allowed FDOT engineers to design updates to the existing drainage system to reduce roadway ponding.

SR 865 (San Carlos Boulevard) from North of Crescent Street to North of Hurricane Pass Bridge, Lee County, FL, FDOT District 1, Project Surveyor. Al provided quality control of the final deliverables, including field reviews. San Carlos Boulevard is the main access to Fort Myers Beach. The project involved reconfiguring existing travel lanes to provide two inbound lanes to the beach and pedestrian-bicyclist connectivity on both sides of SR 865. The scope included widening the Matanzas Pass Bridge to accommodate a new shared-use path and reconfiguring lanes on the Hurricane Bay Bridge to accommodate a new barrier-separated pedestrian path. Approximately 0.5 miles of roadway were milled and resurfaced to accommodate new bicycle lanes. The team developed a temporary traffic control plan to maximize access during peak beach season. The scope included new signals at Fifth Street and Main Street. The team converted the existing signals at Prescott Street/Buttonwood Drive from alternating to conventional signal operation. The scope included extending advanced traffic management systems (ATMS) along SR 865 for approximately three miles. Design services included new lighting at signalized intersections and landscape. The team coordinated extensive public involvement with the Town of Fort Myers Beach, Lee County, and LeeTran. The design of this project was conducted concurrently with the project development and environment (PD&E) study.

CR 664 Bridge Over Peace Creek Bridge Survey Services, Polk County, FL, FDOT District 1, Project Manager. Al was responsible for preparing surveyors' reports, reviewing survey deliverables, and overseeing the project delivery. This off-system project for FDOT is along approximately 2,000 feet of CR 664 in Polk County. This project provided a survey base for FDOT engineers to design a replacement bridge over Peace Creek. This project included a survey of Peace Creek, several hundred feet north and south of the road. The challenge at the time of initial scope and field review, the river was shallow enough to walk across safely; by the time notice to proceed during the rainy season, the river had risen over eight feet, according to the bridge-mounted staff



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SECTION 2

PROPOSED MANAGEMENT PLAN

Section II — Proposed Management Plan

Charlotte County RFP No. 20260423, Water Elevation Monitoring Services, Annual Contract

Part II of the Consultant Evaluation Form addresses the proposed management plan and team organization across the design phase and the construction (installation and commissioning) phase. EGS manages this contract through one (1) accountable Project Manager, a phase process (design and construction) with County sign off at every phase, defined deliverables, embedded **Quality Assurance and Quality Control (QA / QC)**, and a clear storm-event operating model. The County's risk is controlled because every site moves through the same disciplined sequence from candidate location to validated, real-time data.

II.A Team Organization

Matt Landschoot, P.E. is EGS's Project Manager, and will be responsible for all internal (Team) and external (County) coordination. He will be assisted by Sushrit Kaffle (platform, API, and visualization), Vaishnavi Deshmukh (technical support and training), and Josh Nelson (field operations), together with the rest of the EGS internal Team from across the State, as well as the sub-consultants EGS has chosen for this Team. The County Project Manager will be communicating with the single EGS point of contact, Matt Landschoot; the EGS PM will direct the team. Any sub-consultant assignments will be directly managed by EGS, and EGS will review and accept every sub-consultant deliverable before it is submitted to the County. EGS will not change our Project Manager without prior written approval from the County, and does not envision EVER changing our Project Manager. Matt is a principal of EGS, and will be present throughout the duration of this Contract.



Design Phase

The design phase begins with a kickoff and joint site selection workshop with County staff. EGS reviews candidate locations, conducts site-by-site field visits to verify access and mounting options, assigns each site to one (1) of four (4) operational classes (shoreline and tidal coastal, riverine, urban stormwater and canal, or combined), recommends the appropriate sensor and mounting concept per site, and obtains joint County sign off. The design phase deliverable is a per-site design package: sensor recommendation, mounting concept and wind-load tier, telemetry approach, and the proposed threshold-alert configuration.

Construction (Installation and Commissioning) Phase

Installation proceeds in controlled clusters rather than waiting for all sites to be finalized. For each site, EGS establishes NAVD88 vertical control, installs the Fondriest-engineered mount sealed by either Fondriest's Professional Engineering support Team or by WGI's Professional Engineer to the site's wind-load tier, installs the radar sensor and data logger, and runs a written commissioning procedure: data-transmission verification, accuracy validation against an independent local reference, initial QA/QC flag review, and confirmation that the site reports cleanly to the platform. Each commissioned site is then handed into operations with dashboards configured and thresholds set jointly with County staff. The full design approach for installation is detailed in **Section V**.

Communication, Coordination, and Escalation

EGS maintains a predictable communication rhythm: a weekly deployment dashboard during rollout, monthly operations reports, storm mode check-ins during storm windows, and a documented issue / escalation matrix with a County decision log. The Project Manager owns all communication; workstream leads own their technical inputs. This structure gives the County fast, single-threaded issue resolution without ambiguity over who is responsible.

Quality Management

QA/QC is embedded from site selection through data delivery and is led by Sushrit Kafle. Checkpoints include site-suitability review, an installation checklist, survey QA, sensor validation at commissioning, automated data quality flags, dashboard verification, API testing, and an annual hurricane-season readiness audit. EGS applies a framework consistent with the National Oceanic and Atmospheric Administration Quality Assurance and Quality Control of Real-Time Oceanographic Data (**QARTOD**) approach, described in Sections V and VII.

Deployment Milestones

Milestone	Target
Notice to Proceed and kickoff	Within ten (10) days of Notice to Proceed
Joint site selection and field verification	Within 30 days
First site cluster live	Within 45 days
NAVD88 survey, per site	Within 30 days of that site's installation
Initial network (up to 30 sites) operational	90 to 120 days



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SECTION 3

PREVIOUS EXPERIENCE OF TEAM PROPOSED FOR THIS PROJECT

Section III — Previous Experience of the Team Proposed

Charlotte County RFP No. 20260423, Water Elevation Monitoring Services, Annual Contract

Part III of the Consultant Evaluation Form asks the proposing team to describe projects demonstrating relevant experience. EGS's proposed team brings directly applicable Florida experience in remote water-level and rainfall monitoring, stormwater facility instrumentation, continuing-services delivery for public agencies, and Professional Engineer led field execution. EGS is candid about relevance: several of these projects instrument existing stormwater management facilities rather than coastal tide stations, and that is exactly the point. They demonstrate that EGS already designs, installs, and operates the same class of radar and datalogger water-level monitoring equipment, captures rainfall and water-level response continuously, and converts that field data into defensible engineering conclusions, which is the core of the Charlotte County scope.

Relevant Team Experience

Active Remote Water-Level Monitoring Program (FDOT and Municipal)

EGS currently designs, installs, and operates remote surface water-level sensors for the Florida Department of Transportation (FDOT) to evaluate existing stormwater ponds for additional infiltration capacity under Florida's stormwater rules, on multiple contracts with FDOT and other municipalities across the state. On one (1) FDOT District 3 roadway-widening project in Bay County, EGS is instrumenting more than 40 facilities concurrently. This is an active, multi-site monitoring program using the same equipment family proposed for Charlotte County.

III.A Relevant Experience of the Proposed Team

The proposed team brings the three experience groups Charlotte County needs most for this contract: Florida field operations, real time monitoring technology, and data platform integration. EGS is currently applying remote stormwater and water level monitoring technology on multiple Florida projects, including the Bannerman Road Improvement Stormwater Management Facility (SWMF) monitoring effort and the FDOT District 3 State Road 30 remote sensor program. These projects show EGS can place sensors in active stormwater infrastructure, collect continuous water level and rainfall response data, and convert field data into practical design and infrastructure decisions.

The proposed staff also bring long term continuing services experience for public agencies. Matt Landschoot, P.E. has led and supported continuing engineering services for public clients including the City of Homestead, St. Johns River Water Management District, FDOT Districts 2 and 3, Nassau County, Bay County, Flagler County, Leon County, and others. Josh Nelson, Everett Puckett, and Carter Lane strengthen the field side of the team with field management, traffic control, inspection, and safety qualifications. Sushrit Kaffle and Vaishnavi Deshmukh strengthen the platform side with in house software, REST API, monitoring, logging, data pipeline, and technical support capabilities.

III.B Team Experience Mapped to the County Scope

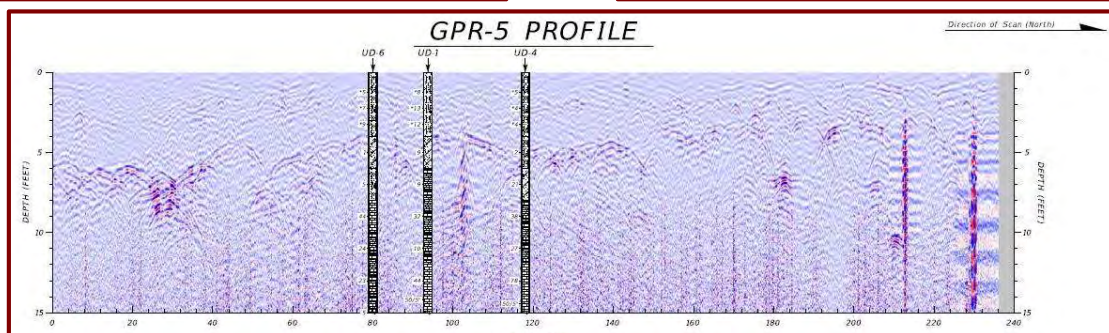
County Need	Proposed Team Experience
Project management and public client delivery	Matt Landschoot, P.E. (EGS) brings 17 years of experience with public continuing service contracts (Municipal, County, Water Management District, and FDOT)
Remote stormwater and water level monitoring	EGS installed and monitored an electronic staff gauge and datalogger at the Bannerman SWMF for eight weeks and is deploying remote monitoring across 45 SWMFs concurrently on FDOT District 3 State Road 30.
Field operations, access, and maintenance	Josh Nelson (EGS) brings 23 years of field management and CTQP qualifications. Everett Puckett and Carter Lane bring MOT, TTC, and field technician qualifications suitable for roadway and stormwater environments.
Data platform, API, and custom reporting	Sushrit Kafle (EGS) has developed cloud hosted engineering data systems, PostgreSQL databases, REST APIs, ETL pipelines, dashboards, semantic search, and performance monitoring.
Technical support and training	Vaishnavi Deshmukh (EGS) has operated production real time systems using FastAPI, Redis, structured logging, performance monitoring, validation, and user facing technical support concepts.
Survey and NAVD88 control	Allen Quickel, PSM (WGI) bring Florida licensed survey capabilities, geodetic control, transportation survey, bridge and channel survey, RTK GNSS, and field to office production experience.
Coastal Engineering / Scour Analysis	Mark Gosselin, Ph.D., P.E. (Intera) and Austin Cannon (Taylor Engineering) bring storm surge, wave, hydraulic, and Charlotte County coastal and bridge scour experience.
Stormwater modeling and infrastructure decisions	David Tyler, P.E. (Lochner) bring hydrologic and hydraulic analysis, watershed modeling, flood mitigation, drainage design, SWMM, ICPR, and permitting experience.
Water quality testing	Matthew Foti, Ph.D. (Eurofins) bring environmental laboratory management and water analysis support if the County requests testing

III.C Relevant Project Experience of Team Members and Firms

Project or Experience Source	Relevance to Charlotte County
Bannerman Road Improvement, SWMF Remote Sensor Datalogger Monitoring (Leon County)	EGS installed a cellular remote logging electronic staff gauge and datalogger at an existing SWMF, recorded water depth hourly, correlated rainfall with pond stage, and converted the eight week record into infiltration and recovery information.
State Road 30 Widening Project, SWMF Remote Sensor Datalogger Monitoring (FDOT District 3)	EGS is planning to deploy remote monitoring equipment at 45 Stormwater Management Facilities (SWMFs) concurrently to evaluate observed rainfall, facility response, infiltration, recovery, and available stormwater capacity. This project was awarded in 2026 and is on-going.
Continuing Geotechnical Services Contract – Remote Sensor Datalogger Monitoring (City of Homestead)	EGS was selected for a municipal continuing services geotechnical contract where we emphasized our ability to provide specialized remote stormwater monitoring and water level monitoring capabilities for ponds, canals, drainage features, and groundwater observation points.
Continuing Geotechnical Services Contract – Remote Sensor Datalogger Monitoring (Nassau County)	EGS was selected for a municipal continuing services geotechnical contract where we emphasized our ability to provide specialized remote stormwater monitoring and water level monitoring capabilities for ponds, canals, drainage features, and groundwater observation points.
District Wide Geotechnical Contract (FDOT District 2)	EGS has been awarded more than five continuing service geotechnical contracts with FDOT District 2 over the last 12 years, showing long term responsiveness, schedule control, field investigation capability, and public client confidence.
Survey Experience	Allen Quickel, PSM (WGI) has led survey work for bridges, channels, waterway corridors, and FDOT projects, including hydrographic data collection where field conditions changed after the notice to proceed.
Coastal Engineering Experience	Austin Cannon (Taylor Engineering) and Mark Gosselin, Ph.D., P.E. (Intera) have performed Charlotte County and Southwest Florida hydraulic, scour, storm surge, and hurricane hindcast work, including projects with storm surge and runoff conditions.
Water Quality Testing Experience	Matthew Foti, Ph.D. (Eurofins) has been providing the County with water quality testing services for years, with a proven track record.

III.D Lessons Applied to This RFP

Experience Lesson	How The Team Will Apply The Lessons Learned
Existing stormwater assets do not always behave like design assumptions.	The monitoring network will collect actual water level behavior and make those records available for model calibration, flow rating curves, vulnerability assessments, and capital planning.
Field access and safety determine whether monitoring stations remain maintainable.	The field operations team evaluates access, maintenance reach, traffic control, vandal resistance, and installation logistics before final site approval.
Data must be useful to non programmers and programmers.	EGS provides dashboards and training for routine users, plus REST API and open export formats for County analysts, consultants, and future systems.
Survey control is part of data quality.	WGI documents NAVD88 elevations, benchmark recovery, survey methods, closure information, and future re survey triggers.
Storm events change operating requirements quickly.	EGS supports normal, elevated, storm, and recovery operating modes, with remote configuration and extended support during named storm and flood events.



Section III — Previous Experience Of Team Proposed For This Project

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SECTION 4

PROJECT CONTROL

Section IV: Project Control

Charlotte County RFP No. 20260423, Water Elevation Monitoring Services, Annual Contract

Part IV of the Consultant Evaluation Form addresses schedule, deployment timeframes and risk management, and workload. EGS controls the initial deployment through a cluster based schedule with defined milestones, names the individuals responsible for meeting the schedule, identifies the key risks with specific mitigations, and confirms the workload capacity to perform.

IV.A Schedule

EGS will control schedule through a cluster based deployment. Sites that are clear for access, survey, and installation move first, while more complex locations continue through access or permitting coordination. This prevents one difficult site from delaying the entire network. Critical coastal and storm priority locations will be advanced as early as practical so the County gains useful storm monitoring capability during the first deployment period.

Milestone	Target Timeframe	Responsible Lead	Control Method
Notice to Proceed and kickoff	Within 10 days	Matt Landschoot, P.E.	Kickoff agenda, data request, contacts, decision log, draft deployment dashboard.
Candidate site review and field verification	Within 30 days	Matt Landschoot, P.E. and Josh Nelson	Site access log, field walkdown forms, photographs, telemetry notes, mount constraints, and survey notes.
First cluster live	Target within 45 days	Josh Nelson with Sushrit Kafle and Fondriest/NexSens support	Procured and staged equipment, installation checklist, platform setup, transmission verification, and QA/QC check.
NAVD88 survey for each site	Within 30 days of installation	WGI and Allen Quickel, PSM	Survey schedule, benchmark plan, method record, closure review, and certified report.
Initial network installation	Within 90 to 120 days	Matt Landschoot, P.E. and Josh Nelson	Rolling cluster deployment, weekly schedule review, equipment tracker, risk register, and County approvals.
Platform and API configuration	Aligned with each site and complete by initial buildout	Sushrit Kafle and Vaishnavi Deshmukh	WQData LIVE site setup, roles, thresholds, REST API keys, export test, and training.
Training	Within 30 days of first cluster and refreshed after buildout	Vaishnavi Deshmukh	Role based sessions, quick reference guides, recordings, and platform administrator support.

Operations and maintenance	After each site is commissioned	EGS PM and Operations Team	Health monitoring, preventive maintenance, storm mode readiness, and quarterly performance reviews.
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IV.A.1 Techniques Planned to Assure Schedule

Technique	How It Protects the Schedule
Deployment dashboard	Shows status of every site for access, design, procurement, installation, survey, platform, commissioning, and open decisions.
Site access log	Identifies parcels, permissions, access constraints, maintenance approach, and County actions early.
Equipment procurement tracker	Tracks sensors, loggers, solar packs, telemetry, mounting hardware, spare equipment, and serial numbers.
Survey tracker	Tracks benchmark recovery, field date, method, closure review, NAVD88 elevation, report date, and County delivery.
Risk register	Assigns each risk an owner, action, due date, and escalation path.
County sign off gates	Prevents field work from starting at a site until the County has approved the site design basis.
Weekly look ahead schedule	Confirms planned field mobilizations, County decisions, equipment arrivals, survey windows, and platform tasks.

IV.A.2 Responsibility for Schedule Assurance

Matt Landschoot, P.E. is responsible for assuring the schedule is met. He will maintain the master schedule, chair deployment meetings, issue schedule reports, escalate risks, and coordinate County decisions. Josh Nelson is responsible for field readiness and installation progress. Allen Quickel, PSM is responsible for survey schedule and survey deliverables. Sushrit Kafle is responsible for platform, API, and data configuration progress. Vaishnavi Deshmukh supports training, user readiness, and support processes.

IV.B.1/2 Deployment Timeframes and Risk Management

EGS plans to complete installation and NAVD88 surveying for the initial sites within the County anticipated timeframes by grouping sites into clusters and overlapping workstreams. While field crews verify sites, the data team establishes the WQData LIVE project structure, the survey team reviews benchmark availability, and the equipment team stages standard station components. Once the County approves a site design basis, EGS can move directly to installation and commissioning.

Risk	Potential Effect	Mitigation Strategy
Site access constraints	Delay in field walkdown, installation, maintenance, or survey.	Use early access log, County coordination, alternate access routes, and cluster sequencing so other sites proceed.
Permitting or owner approval delays	A site cannot advance to installation.	Identify permit and owner needs during site verification; use temporary alternate site candidates where appropriate.
Mounting constraints	Sensor cannot be placed over the ideal water surface footprint.	Use site walkdown, photographs, mount concept review, radar footprint check, and acoustic or ultrasonic review only where needed.
Cellular coverage limitations	Delayed telemetry or unreliable real time visibility.	Review carrier coverage, test signal at installation, use external antennas, adjust logger placement, and use select satellite fallback for critical coastal sites.
Equipment shortages	Delayed installation of clusters.	Use standardized hardware family, pre order long lead items, maintain spare allocation, and coordinate with Fondriest and NexSens.
Survey benchmark limitations	Delay in certified NAVD88 elevation report.	WGI reviews NGS benchmark availability early, uses RTK GNSS where appropriate, and uses differential leveling where needed.
Hurricane or severe weather during deployment	Field work may be interrupted.	Prioritize critical sites, secure incomplete installations, activate storm readiness procedures, and resume cluster deployment after safe access is restored.
Vandalism or field damage	Station outage or data interruption.	Use secure mounting, locking hardware, diagnostics, spare equipment, and documented repair process.

IV.B.3 Field Problems and Delay Communication

EGS handles field problems through early notice, documented options, and direct client communication. On the Bannerman Road Improvement SWMF monitoring effort, EGS installed a remote logging electronic staff gauge and datalogger at an existing facility, documented the field setup and control structure conditions, and produced useful water level and infiltration information even though the monitoring period depended on actual rainfall events. On FDOT District 2 and Nassau County continuing services assignments, EGS has repeatedly mobilized field staff to investigate roadway depressions, drainage concerns, and geotechnical conditions under active public agency schedules. These assignments required fast communication, clear field documentation, and practical recommendations that allowed the client to decide how to proceed.

For Charlotte County, any schedule delay or field issue will be documented in the deployment dashboard and risk register. EGS will identify the issue, the affected site, the responsible party, the proposed mitigation, the decision needed from the County, and the target resolution date. The County will not receive a surprise at the end of the month; issues will be communicated when they are identified.

IV.C Recent, Current, and Projected Workload

EGS confirms that it has the capacity to perform this contract. Current and projected workload allows approximately 60 percent to 65 percent staff availability for the proposed personnel and support resources. The proposed schedule is supported by regional EGS offices, field technician depth, specialized subconsultants, and a standardized equipment approach that reduces training, procurement, and maintenance complexity.

Phase	Projected Capacity
Training	Vaishnavi Deshmukh will provide on-going training for the County, as requested. Should additional training capacity be required, Sushrit Kafle can be utilized to provide additional support.
Project management	Matt Landschoot, P.E. provides executive level PM oversight and can allocate EGS resources across offices. In addition to Matt, EGS also has 7 other Project Managers within the Firm that can provide additional support if needed.
Field operations	Josh Nelson leads field operations with Everett Puckett and Carter Lane supporting installation, maintenance, traffic control, and site documentation. In addition, EGS has 20 additional field personnel that can be utilized to ensure that the schedule is met.
Platform and support	Sushrit Kafle and Vaishnavi Deshmukh provide in house EGS data, API, support, and training capacity. EGS is also projecting hiring 2 additional staff to their department in 2027, which will add additional capacity throughout the duration of this Contract.
Survey	WGI provides a dedicated Florida PSM led survey workstream and can schedule survey crews around cluster deployment. WGI has statewide surveying resources, and is known for their ability to provide fast deployment throughout the State.
Equipment support	Fondriest and NexSens support equipment procurement, telemetry, platform support, and spare parts coordination.



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SECTION 5

**PRESENT PROPOSED DESIGN APPROACH
FOR THIS PROJECT**

Section V — Proposed Design Approach for This Project

Charlotte County RFP No. 20260423 — Water Elevation Monitoring Services, Annual Contract

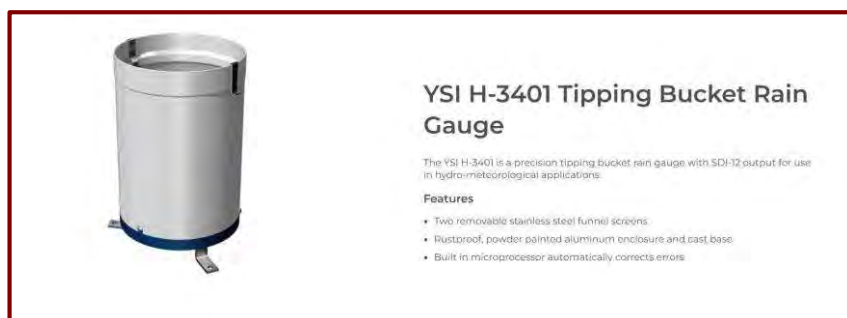
Section V is scored 1–5 with a ×20 weight on the Consultant Evaluation Form (pp. 15–16). This narrative addresses items A through F in order. Items E and F appear in identical wording on the eval form; they are answered as a single combined response under one heading and the duplication is noted explicitly.

V.A Overall Installation Approach

EGS proposes a turnkey, vendor-managed surface-water elevation monitoring network of up to thirty stations across Charlotte County, partnered with NexSens Technology, Inc. via its U.S. distributor Fondriest Environmental, with Paul Nieberding and the owner of Fondriest, Steve Fondriest, as the EGS partner contacts. Every station in the network is built on the same hardware family — a non-contact radar level sensor connected to a NexSens X3 data logger, powered by a NexSens SP-series solar pack, and reporting to the WQData LIVE cloud platform — so that field staff training, spare-parts inventory, and operating procedures are uniform across the network regardless of site class. . The four operational site classes the County's RFP identifies are shoreline / tidal coastal, riverine, urban stormwater / canal, and combined sites that straddle classes. Our Teams proposed approach will share the same standard station design, site class drive mounting design, telemetry choice, and threshold configuration.



The baseline station will measure surface water elevation. Because each station is built on the NexSens X3 data logger, additional parameters can be added at any site if warranted by the County; for example, a YSI-H-3401 rain gauge can be installed to capture co-located rainfall. Additional sensors are not part of the baseline scope and are offered as an optional, County directed enhancements.



Each station is built in five sequential phases. First, EGS conducts a joint design-phase site selection workshop with County staff: review of candidate sites, site-by-site walk down to verify access and mounting options, and joint sign off on per-site sensor recommendations under RP-21. Second, EGS's named Florida-licensed Professional Surveyor

and Mapper sub-consultant (identified in Section I) will establish the NAVD88 vertical control at each site to first order Class II accuracy per RP-22; the surveying methodology is detailed in V.D below. Third, the structural mount is installed in a single mobilization per site, with the NexSens PM2 Mounting Kit layered on top of an Fondriest engineered structural mount, signed and sealed to the site's wind-load tier by either NexSens's in-house design team, or by a WGI Professional (Structural) Engineer. Fourth, EGS field staff will install the sensor and X3 datalogger, run the on-site commissioning procedure: data transmission verification, accuracy validation against an independent local reference, initial QA/QC flag review, and confirm the site is reporting cleanly into WQData LIVE. Fifth, the site is handed off into the operational network: dashboards configured, threshold alerts set jointly with County staff, and the site enters the standing quarterly performance review cadence described in Section VII.



The standard station adapts to each site class with no change in core hardware. At shoreline and tidal coastal sites the structural mount typically attaches to a seawall, piling, or low-clearance bridge railing; the sensor is positioned to clear the maximum-expected storm-surge level with margin, and the X3 is configured with both 4G LTE primary and Iridium satellite fallback so that the loss of local cellular infrastructure during a hurricane does not silence the station. At riverine sites the mount is most often a bridge railing or pole mast extension over the channel; sensor positioning prioritizes a clear radar footprint over the thalweg and accounts for the expected high-water mark plus a freeboard margin. At urban stormwater and canal sites (culvert headwalls, control structures, inlets at flood-prone intersections) the LX-class mounting bracketry from NexSens supports compact, vandal-resistant installations; the radar's narrow beam tolerates tight enclosures without spurious returns. Combined sites are treated as the more conservative of the two applicable classes. It also should be noted that NexSens has just designed a “heavy duty” mounting bracket that could be deployed for this operation as well, from our discussions with NexSens. Although the new bracket is not currently listed on their website, it is comprised of heavy duty stainless steel, and is built to not only protect the sensors from hurricane wind loads, but also from debris impacts that occur during these storm events.

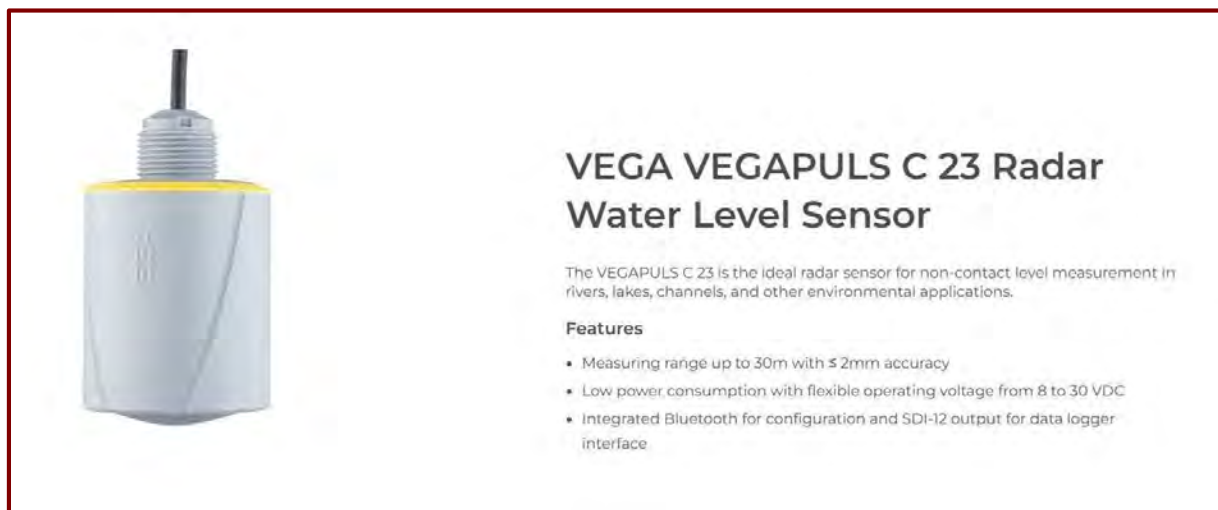
Every site is documented identically. The per-site record includes the site identifier and common name, WGS84 latitude and longitude, NAVD88 sensor face elevation and zero offset, photo documentation of the installation, mounting and conduit detail drawings, the certified survey report sealed by the FL-licensed PSM, the commissioning report, and the County's signed-off threshold configuration. The record is loaded into WQData LIVE site metadata and is accessible to County staff for the life of the contract through both the platform's web interface and the REST

API. This satisfies RP-22's installation-documentation requirement directly and creates the audit trail referenced in V.D.2 below.

Initial-network installation and the corresponding NAVD88 surveying complete within the schedule milestones established in Section IV (Project Control), with critical-class sites prioritized in the early phases of the build-out. Site selection itself is a joint design-phase activity with County staff; specific site names and counts by class are not finalized at proposal time and are not enumerated here.

V.B Sensor Selection — Radar vs. Acoustic/Ultrasonic

Final sensor selection is determined jointly with County staff during the design phase, as RP-21 specifies. EGS proposes a default sensor and rationale per site, the County reviews and signs off, and the joint selection becomes part of the design-phase deliverable. The default for the Charlotte County network is the VEGA VEGAPULS C 23 non-contact radar.



The VEGA VEGAPULS C 23 is EGS's default primary sensor across all four site classes for four reasons. Its published accuracy of ≤ 2 mm against RP-21's ± 2.5 cm minimum gives roughly an order of magnitude of margin for field drift, signal-quality variability, and long-term ageing over the five-year contract. Its SDI-12 digital output is a native protocol on the NexSens X3 sensor port, which means no custom wiring or firmware to integrate the two devices. Its operating voltage range of 8 to 30 VDC and low power draw fit comfortably inside the power budget of the SP15 / SP32 solar pack, with margin to ride out successive cloudy days during the wet season. And the radar's electromagnetic-wave operating principle is robust to rain, fog, surface debris, and biofouling, which are environmental factors that can degrade acoustic and ultrasonic measurement in SW Florida's coastal and stormwater conditions.

Acoustic and ultrasonic sensors are considered case-by-case where radar is constrained. Two situations trigger a per-site review under RP-21. The first is extreme multipath sites where nearby reflective structures fall inside the radar beam in a way that signal processing techniques cannot fully filter out, most commonly very-tight stormwater enclosures with metal walls close to the sensor footprint. The second is sites where the County operates an existing acoustic standard from prior infrastructure and explicit consistency with that standard simplifies operations. NexSens-compatible acoustic and ultrasonic alternatives are available within the X3 sensor library and connect over the same

SDI-12 interface as the VEGAPULS, so substituting the sensor on a per-site basis does not change the rest of the station design.

The decision criteria EGS applies are summarized below. Each cell describes the preferred technology for the listed condition, with the default reading downward to the radar.

Condition	Preferred sensor	Rationale
Rain, fog, salt spray, biofouling exposure	Radar (VEGAPULS C 23)	Radar's EM-wave operating principle is unaffected by air-side conditions that attenuate acoustic returns.
Wide channel or open bridge mount	Radar (VEGAPULS C 23)	5-° class beam tolerates wide footprints without spurious returns.
Tight enclosure with close reflective walls	Acoustic / ultrasonic	Avoids multipath where radar near-field returns are constrained.
Very low installed height (< 0.5 m to water)	Acoustic / ultrasonic	Below radar's effective near-field; ultrasonic close-range performance is established.
Hurricane / Category 1–4+ wind exposure	Either (mount-driven)	Sensor survival is governed by the structural mount in V.C; sensor type affects measurement during the event, not survival.
Default	Radar (VEGAPULS C 23)	Standardizes spare inventory, training, and operating procedures across the network.

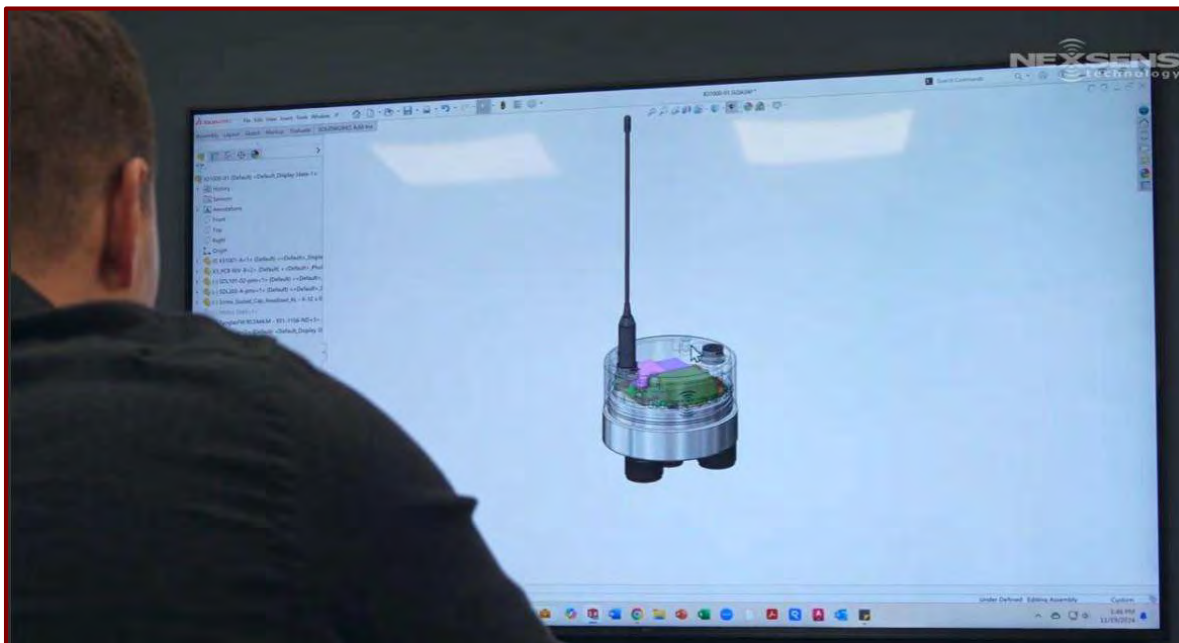
Because the sensor itself is sealed and has no moving parts, the sensor type chosen has little effect on hurricane survival; the structural mount engineered under V.C is what carries the load. Sensor selection primarily affects how the station behaves during the storm event, the radar's continued accuracy in heavy rain and high winds is one of the main reasons EGS keeps it as the default at the highest exposure sites. However, from discussions with the sensor manufacturer's, we believe that Radar (VEGAPULS C 23) will likely be the most accurate and cost-effective sensor choice for virtually every application for this Contract.

V.C Resilience to SW Florida Storm Conditions and Maintenance Accessibility

Every station in the proposed network is built to operate through the conditions characteristic of the SW Florida Gulf Coast: heat, humidity, salt spray, lightning, sustained tropical storm winds, direct hurricane exposure, and debris impacts. It is also imperative that each station remain accessible for routine maintenance without compromising any of that resilience. The design uses four reinforcing mechanisms: hardware ratings, engineered mounting, telemetry fallback, and operational readiness.

The hardware baseline begins with the VEGAPULS C 23 sensor and the NexSens X3 datalogger, both of which are sealed and rated to environmental conditions that comfortably exceed SW Florida's. The X3's marine anodized aluminum housing is fully sealed and rated for continuous outdoor operation; its conformally coated circuit board adds a second moisture and humidity barrier inside the housing. The X3 continues operating even when submerged by rising water, which means a station overtopped by storm surge does not fail electrically when conditions abate. Operating temperature limits of -40 °C to +70 °C on the logger and equivalent extremes on the sensor mean the documented environmental envelope is never the constraint on a Charlotte County site.

Mounting design under RP-22 is built to Fondriest's hurricane-rated structural design specifications at two (2) wind-load tiers, both signed and sealed by either Fondriest's in-house design team or by WGI Florida licensed Professional (Structural) Engineer as identified in Section I. At non-critical sites the mount is engineered to 100 mph sustained wind survival. At public safety critical sites, typically evacuation routes, primary storm-surge stations, and infrastructure at known flood-risk intersections, the mount is engineered to 140+ mph sustained, the Category 4 threshold. The site-class assignment is made jointly with the County during the design phase and is documented in the per-site record alongside the structural drawings and the PE seal. The PM2 Mounting Kit supplies the standard NexSens attachment hardware and includes grounding hardware against electrical surge; the Fondriest-engineered structural element on top of PM2, signed and sealed by WGI's Professional Engineer, carries the wind-load rating.



At the most exposed critical sites, EGS deploys Fondriest's new hurricane-proof heavy-duty mounting hardware for added storm protection. The mount design specifications and equipment are Fondriest's; WGI's Florida-licensed Professional Engineer signs and seals each mount to certify the applicable 100 mph (non-critical) or 140+ mph (critical) wind-load tier.

Telemetry resilience is built into the station's normal operation rather than added as a contingency. Cellular infrastructure is the most common single mode failure during a major hurricane. Towers de-power or are physically damaged. EGS configures critical class sites with the X3's dual-mode option: 4G LTE cellular as the primary uplink and Iridium satellite fallback as the automatic secondary, both on the same X3 SKU. The X3 also buffers more than one year of data locally at fifteen minute cadence, so any transient telemetry outage (cellular or satellite) does not cause data loss; the X3 backfills the gap automatically when the link recovers. This backfill mechanism is exercised continuously, not only during major events.

Maintenance accessibility is a design constraint, not an afterthought. Mounting design balances vandal resistance with safe field access: locking pole-mount hardware at vulnerable sites, ladder or lift access considered during structural review on bridge and culvert installations, and access agreements coordinated through the County during the design phase. Preventive maintenance is scheduled site visits for inspection of battery, solar panel, mount, and seal integrity; the platform's internal diagnostics on battery voltage, current draw, internal temperature, internal

humidity, and cellular RSSI surface a degrading site to EGS Operations before it goes offline, so visits are scheduled proactively where possible. The full preventive and corrective maintenance program is described in Section VII; the design-side point is that the station is built to be reached, inspected, and serviced without dismantling the mount.

EGS will maintain a spare equipment inventory of X3 dataloggers, VEGAPULS C 23 sensors, and SP-series power packs sized to a percentage of the deployed network (identified in Section VII), so that post-storm replacement of any damaged station is a same-week field operation rather than a procurement exercise. Before each June 1, EGS Operations will complete a network wide hurricane season readiness audit: battery and solar inspection at every site, mount inspection, confirmation that every site can be remotely commanded into Storm cadence, confirmation that Iridium fallback is functional at every critical-class site, and spare-inventory verification at the regional staging location, and will deliver the audit report to the County Project Manager by May 31.

V.D Surveying and Vertical Datum Control

V.D.1 Methods and Procedures

All surveying under this contract is performed by EGS's named Florida-licensed Professional Surveyor and Mapper sub-consultant (WGI), identified in Section I, with no substitution permitted without the County's express consent. The PSM is responsible for the field methodology, the certified survey reports, and the seal on every per-site survey record. EGS has worked with WGI for over the last 20 years on projects throughout the State of Florida.

The vertical datum at every site is the North American Vertical Datum of 1988 (NAVD88), established to first-order Class II accuracy or better as RP-22 requires: ± 1.3 cm (± 0.5 in) vertical. The PSM uses the latest NGS-published geoid model in force at the time of the survey campaign (currently GEOID18; any successor model is adopted as soon as NGS publishes it, with the active model recorded in the per-site record so future re-computations are unambiguous).

Two methods are used per site, selected by the PSM based on local conditions. RTK GNSS with a known reference and the appropriate geoid model is the default at sites with adequate sky view and reliable reference-station coverage. Differential leveling from established NGS benchmarks is used at sites where GNSS performance is constrained: dense canopy, deep urban canyon between tall structures, or sites where a benchmark is conveniently close and direct leveling is faster than setting up RTK. The two methods may be combined at a single site, with leveling used to transfer NAVD88 from a nearby NGS benchmark onto a temporary control point at the structure, and GNSS then used to position the sensor face precisely. Method choice and field procedure are documented per site in the certified report.

The per-site deliverable from the PSM includes the benchmark description and recovery information, the survey method actually used, the closure error for the campaign, the NAVD88 elevation of the sensor face, the NAVD88 zero-offset used by the platform to convert raw sensor distance to water-surface elevation, photo documentation, and the PSM's signed seal. Each report is delivered to the County and loaded into WQData LIVE site metadata, where it remains accessible for the life of the contract and can be exported via the platform's REST API or its Data Export Tool. All initial-network surveys complete within thirty days of sensor installation per RP-22, with critical-class and coastal sites surveyed first.

V.D.2 Lifetime Documentation and Datum Management

Survey control is managed over the full life of the contract through a single system of record. Each site's record — benchmark descriptions, geoid model used, closure errors, NAVD88 elevations, signed seal date, and any subsequent updates, is logged in WQData LIVE site metadata and mirrored to EGS's project survey log. Either location can be accessed by the County: WQData LIVE through the web interface or the REST API; the survey log through standing exports delivered with the quarterly performance review packet described in Section VII.

Datum changes are handled with explicit triggers and an audit trail. When the National Geodetic Survey publishes a new geoid model (or a NAVD88 successor) during the contract term, EGS Operations runs a re-evaluation: affected sites are re-computed using the new model, or re-surveyed in the field where the model change exceeds a configured tolerance, and any sensor-face offsets in WQData LIVE are updated. The change is logged in the per-site record with a clear effective-date timestamp, and the County Project Manager is notified by email and SMS so that downstream consumers of the data (modeling teams, ArcGIS Online layers, Power BI dashboards) can be informed and aligned.

Re-survey of an individual site is scheduled when any of four conditions is met: a named hurricane affects the site, the County or EGS Operations observes structural disturbance at the mount, the five-year survey currency window elapses, or the County requests a re-survey for any reason. Each trigger and the subsequent closure are logged in the site's survey record so the history of vertical control at every station is traceable end-to-end.

Benchmark recovery information is retained in the per-site record so that any qualified surveyor can return to the same control point in the future without local knowledge. Each site's primary and secondary benchmark descriptions, photos, and recovery instructions are stored alongside the certified survey report. Edits to NAVD88 zero offsets in WQData LIVE. For example, after a re-survey or after a geoid-model update, are logged with timestamp, user, before/after value, and reason, integrated into the same raw-versus-corrected audit framework that governs measurement data under RP-24 and described in the QA/QC implementation document EGS delivers at commissioning.

V.E / V.F Data Platform, API, and Visualization

Items V.E and V.F appear in identical wording on the Consultant Evaluation Form (pp. 15-16) and are answered here as a single combined response. The sub-headings E/F.1 (data management and visualization), E/F.2 (API and data access), and E/F.3 (threshold alerts and storm mode) follow the RFP evaluation crosswalk. Every feature named in this section is documented in the NexSens WQData LIVE Web Datacenter User Guide (revision 27 December 2024).

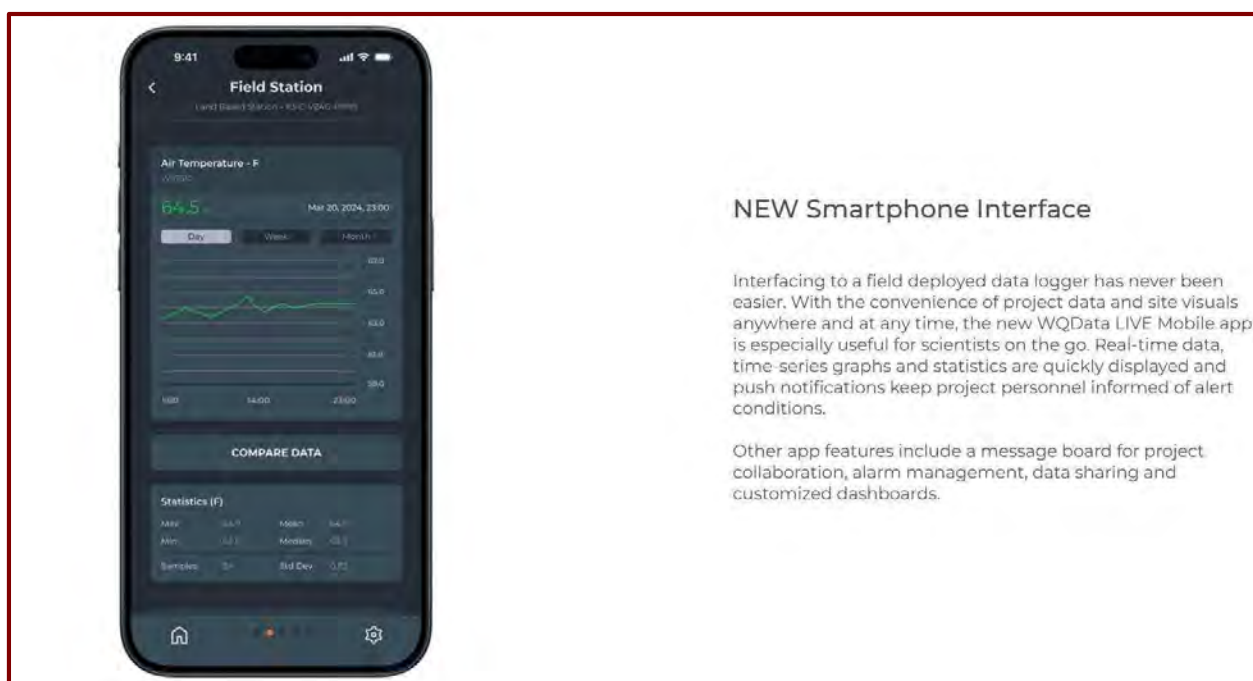
V.E.1 / V.F.1 Data Management and Visualization Solution

Architectural Posture: EGS Can Provide Both

EGS can provide both a turnkey data management and visualization solution and integration into a County-selected platform; the two options are not mutually exclusive and the County is not required to choose between them. EGS proposes the NexSens WQData LIVE web datacenter as a manufacturer-native visualization solution paired one-to-one with the X3 data logger at every station, and in parallel exposes the platform's REST API to the County at no incremental cost so that the same data can be displayed, federated, or consumed inside any County-selected system. WQData LIVE is the manufacturer-native data platform for the X3 and is purpose-built around the same logger family that produces the County's data, which eliminates the integration risk and end-to-end troubleshooting

overhead that would accompany a third-party-only platform. Through the open REST API, EGS can additionally support County integration with ArcGIS Online, Power BI, an existing emergency-management dashboard, GIS-based public-works tooling, or any future County-selected system, and EGS's in-house software engineering team can build custom integrations on top. The County is free to use WQData LIVE on its own, use a County-selected platform on its own, or run both in parallel against one shared data store; configurations, alarm states, and historical records are identical no matter which surface a user works from.

WQData LIVE is offered in four subscription tiers (Basic, Advanced, Professional, Enterprise). EGS proposes the Professional tier for the Charlotte County project; it is the lowest tier that includes the REST API, the Data Export Tool, the multi-trigger Alarm interface, and the Public Portal. Inclusion of the Professional-tier subscription within the annual service fee is confirmed in writing with the EGS partner contact at Fondriest Environmental (Paul Nieberding) before contract execution; the Verified-Facts annex of this proposal tracks this confirmation as item V-1.



Data Hierarchy and Project Organization

Data on WQData LIVE is organized hierarchically as Project, Site, Data Logger, Sensor, Parameter. EGS configures one Project for the Charlotte County network, with each physical monitoring location represented as one Site, each X3 datalogger claimed into its assigned Site by serial-label Claim Code, and each sensor output exposed as a named Parameter. The County can rename Parameters, set display precision, and convert raw units to alternate units (for example, raw centimeters reported by the radar displayed as feet NAVD88) through the Parameter Settings menu. This hierarchy is stable across the entire contract: the County's site identifiers, parameter names, and display units, once configured, persist through telemetry vendor changes, sensor refreshes, and any future platform-tier evolution.

Dashboards: Three Pre-Built Layouts Plus Unlimited Custom

WQData LIVE provides three dashboard layouts out of the box and supports unlimited user-defined Custom Dashboards. The County can build a different dashboard for each audience (one for Emergency Management's storm-mode view, one for Water Quality's long-term records view, one for Utilities' asset-by-asset operational view)

and set any of them as the default landing page through ADMIN, Settings, Project/Site, Default Dashboard. The three baseline layouts are:

Layout	Standard content
Project Dashboard	Satellite map of all sites with markers color-coded by alarm/alert state; interactive line graph of the selected parameter from the selected site; summary table of all configured alarms.
Site Dashboard	Last device-contact timestamp; interactive multi-parameter graph; per-parameter data readout with scaled bar indicator (min/max from Parameter Settings); data-logger diagnostic table; alarm summary.
Custom (Blank)	User selects up to fifteen modules from the panel library and arranges them freely; saved with a name and selectable as default.

Dashboard Panel Library

The Custom Dashboard draws from a published library of thirteen panel types. EGS configures a recommended baseline set for each County audience at kickoff and transfers ownership to the County's platform administrators, who can then add, remove, or rearrange panels at will. The library includes:

Panel	Purpose
Project Overview / Disclaimer	Project-level descriptive text, editable per project.
Project Picture	Visual representation (project logo, site photo, system photo).
All Sites, Map	Interactive multi-site map with site dots colored by alarm state.
Site Description	Per-site descriptive text from ADMIN, Settings, Sites.
Site Image	Per-site photo from Site settings.
Site Latest Media	Most recent gallery image from the Site (manual or auto-imported).
Single Site, Interactive Graph	Line graph for any subset of a site's parameters.
Device Last Contact	Diagnostic, last time the logger reported to WQData LIVE.
Parameter Data	Latest reading for one parameter, with scaled-bar visual on min/max.
Multiple Parameters Data	Table of latest readings across selected parameters.
Parameter Graph	Fixed multi-parameter overlay graph (for example, upstream vs. downstream).
Sponsors	Logo and link grid for project supporters (Public Portal-linked).
Alarms	Summary of all configured alarms and their current state.

Map, Real-Time Behavior, and Multi-User Access

The dashboard map is the County's primary situational-awareness view. Site markers are placed by configured latitude/longitude, the marker color reflects the live alarm state for that site (a triggered alarm changes the marker; the Alarm vs. Alert notification-type setting controls the specific marker effect), and the selected parameter value

displays directly underneath the marker. Selecting a site marker opens its interactive parameter graph in the dashboard's graph panel without leaving the page. The dashboard updates on each new data point received by the platform from the logger; the latency from logger transmission to dashboard visibility is the platform's normal data-ingest latency, supplemented by the Begin-Date-Time offset documented in the Data Report tool (typically five minutes for cellular sites) when batch reports are auto-generated.

Multi-user access is configured through ADMIN, Settings, Users. The County adds any number of users to the Project, and EGS supports the County in defining role-appropriate access at handoff. The WQData LIVE web interface is mobile-responsive and accessible from any modern browser; in addition, NexSens offers a LIVE Datacenter mobile application (enabled per project through ADMIN, Settings) for users who prefer a dedicated mobile client during field work or storm response.

Custom Extensions Beyond the Native Interface

If the County ever needs functionality beyond what the WQData LIVE interface natively provides (a custom internal dashboard, an integration into an existing County system, a tailored public-facing visualization, or a workflow tool built on top of the underlying data), EGS's in-house software engineering team has a strong track record of building purpose-built applications against open REST APIs and can extend the platform's capabilities through the WQData LIVE API at no additional vendor procurement.

Data Capture, Retention, and Resilience to Telemetry Outages

Data capture and retention are handled at two layers: locally on the X3 logger, and centrally in the WQData LIVE cloud.

On-Board Storage at the Logger

The NexSens X3 writes every sensor reading to its own internal storage at the configured Log Interval, independently of the configured Transmission Interval. NexSens documents on-board storage of more than one year of data per X3 in the X3 product reference, which makes the storm-mode continuity strategy viable: if cellular coverage is lost during a hurricane and the Iridium fallback path is also unavailable, the logger continues to record locally and automatically backfills the missing window to WQData LIVE the moment any telemetry path is restored. The County does not lose a measurement to any comms outage shorter than the on-board buffer. The exact storage capacity figure for the County's intended sampling configuration (so that this proposal can quantify, for example, hours of one-minute sampling versus weeks of hourly sampling) is confirmed in writing with Paul Nieberding before the proposal is submitted and is tracked as Verified-Facts annex item V-4.

Cloud Retention in WQData LIVE

Cloud-side retention is governed by the published WQData LIVE tier matrix. The relevant row, Data Storage, reads: Basic: 1 Year, Advanced: Unlimited, Professional: Unlimited, Enterprise: Unlimited. Because EGS is proposing the Professional tier, the County's water-elevation time-series data is retained in the platform for the life of the subscription with no archive-tier surcharge and no separate archival product. The Photo and Video Storage row is a separate 10 GB allocation on the Professional tier; that limit applies only to gallery images and site media (site photos, install documentation pictures, post-event imagery the County may attach to a Site), not to the time-series measurements that are the actual deliverable. The same API and Data Export endpoints serve real-time and full historical data, so a request for the last five years of records is the same shape of call as a request for the last fifteen minutes.

Data Ownership and Clean Exit

The County owns all collected data and may bulk-export at any time through the Data Export Tool (CSV, NDBCXML, GLOXML, GLOS API) or through programmatic extracts on the REST API. On contract termination EGS delivers the County's complete historical archive in open formats at no charge, so the Professional-tier "unlimited" retention is not a vendor-lock-in concern: the County can leave the platform at any time with its full record intact.

Platform Availability

NexSens operates WQData LIVE as a managed cloud service with redundant infrastructure and 24-hour platform-side monitoring. EGS commits to provide the County with the platform-side availability and uptime SLA letter from NexSens before contract execution, and to report measured availability on a per-quarter basis through the performance-review cadence described in the Technical Support, Training, and Coordination section of this proposal.

V.E.2 / V.F.2 API Capabilities and County Data Access

API Type, Endpoint, and Authentication

WQData LIVE exposes a RESTful API over HTTPS at <https://www.wqdatalive.com/api/v1/>. Authentication uses the apiKey query parameter; the platform allows up to ten API keys per Project, each independently named, each independently revocable, and each optionally restricted by source IP address (IPv4 or IPv6) so the County can scope a key to its own GIS server, internal application host, or a specific contractor's analytic environment. Keys are created, edited, and deleted under ADMIN, API, API Keys; deletion is confirmed by retyping the key name and is irreversible, which protects the County from accidental loss of a key that is actively serving a production integration. OAuth 2.0 is not used.

Endpoint Catalog

The published v1 endpoint set covers the four operations the County's integrations need: listing the project's devices, listing the parameters reported by each device, pulling historical parameter data over a date range, and pulling the latest reading. Representative endpoints are:

Endpoint	Purpose
/devices?apiKey=...	List devices (loggers) in the project.
/devices/{deviceId}/parameters?apiKey=...	List parameters reported by a device.
/devices/{deviceId}/parameters/data?apiKey=...&from=...&to=...	Pull historical time-series data for one or more parameters.
/devices/{deviceId}/parameters/data/latest?apiKey=...	Pull most-recent values across the device's parameters.

Responses are JSON. The historical-data endpoint accepts a date range up to ninety days per request, returns approximately 5,000 data points per response, and supports pagination through the info.lastDataPointTimestamp field so that any multi-year historical pull can be assembled by repeated calls. The platform applies an hourly request cap per API key and returns HTTP 429 if the cap is exceeded; the documented behavior is to back off and retry on the next hour.

Filters and Query Constraints

Queries can be filtered by device, parameter, and date range natively in the URL parameters; QA/QC flag values are returned alongside each data point so client-side code can filter on flag state without an additional request. The 90-

day request window and the approximately 5,000-point per-response cap are explicit constraints documented in the API spec; EGS includes worked client examples in the API training module that show idiomatic pagination loops for the common multi-year, multi-site, single-parameter pull pattern that the County's modeling team is most likely to use.

Response Formats and Integration Patterns

The REST API returns JSON; the Data Export Tool produces CSV, NDBCXML, GLOXML, and GLOS API formats; and the Data Report tool produces PDF and CSV from saved or ad-hoc reports. Together this covers every integration pattern the County is expected to need over a five-year contract horizon. Confirmed integration patterns from the platform's installed base include: ArcGIS Online via Web Service consumption of the JSON API; Microsoft Power BI via the Web connector or Power Query against the JSON API for live workbook refreshes; Microsoft Excel via Power Query against the JSON API or via direct CSV export; custom dashboards built in any modern web framework against the JSON API; and nightly batch CSV pipelines delivered to a County FTP/SFTP server via memorized Data Reports.

OpenAPI Specification and API Documentation

WQData LIVE Data API documentation is rendered via ReDoc, which is an OpenAPI-3.0 renderer. EGS commits to deliver the canonical OpenAPI 3.0 spec file to the County's integration staff at commissioning, so that the County can drive automated client-stub generation for any internal stack (Python, .NET, Java, Go) it standardizes on. The vendor confirmation that the canonical spec file is publicly available, rather than requiring an account, is tracked as Verified-Facts annex item V-3.

Historical and Real-Time Access; Data Ownership

The same endpoints serve both real-time (latest) and full historical data. There is no separate archive tier and no archival surcharge; all collected data remains accessible through the API and the Data Export Tool for the life of the contract. The County owns all collected data, may freely share and publish it, and may bulk-export at any time through the Data Export Tool in CSV or XML formats. On contract termination EGS delivers the County's complete historical archive in open formats at no charge.

Reporting Workflows for Non-Programmers

For County staff who need ready-made deliverables (quarterly water-level summaries for management, post-event rain-and-stage reports, periodic feeds to consultants), the Data Report tool covers the workflow without code. The tool produces three report types (Data, Alarm, Rain Event), supports parameter filters, time-window condensation (sum, average, min, max over a user-defined bin), customizable headers and footers, and PDF page-size and orientation settings. Reports can be memorized and configured to send automatically on a schedule via email (5-minute offset minimum) or FTP/SFTP (15-minute offset minimum); the offsets accommodate the upload latency on the final data point so the report never arrives missing its last reading.

V.E.3 / V.F.3 Threshold Alerts, Storm Mode, and Surge Operations

Two-Tier Notification Model

WQData LIVE provides two parallel notification mechanisms (Quick Alerts and Alarms). Quick Alerts are configured per-parameter from any dashboard panel with a simple above-or-below threshold, send a single email per uploaded reading that exceeds the threshold, and require only an email address (with optional text-message delivery via a carrier email-to-SMS gateway). Alarms are the advanced interface: a single Alarm object can combine multiple trigger conditions across multiple parameters and loggers, applies AND logic across those conditions with a time-interval qualifier so a transient spike does not fire the alarm, supports active-day and active-hour masks, supports

Multi-Trigger continuous notification for the duration of an active condition, and is configured with separate Trigger and Reset conditions so the County can require the situation to return to a defined safe state before the alarm is eligible to re-fire.

Three-Level Alert Framework

EGS proposes a three-level alert framework (Advisory, Warning, Critical) implemented as three distinct Alarm objects per monitored site. Each level has independent threshold, distribution, and channel configuration. The mapping from this proposal's level language to the WQData LIVE Alarm features that implement it is:

Level	Trigger Action recipients	Channels	Platform features used
Advisory (yellow)	Monitoring teams, designated County staff.	In-platform marker + email.	Alarm w/ single trigger condition; Group recipient list.
Warning (orange)	On-call rotations, EGS Operations.	In-platform + email + SMS via carrier gateway.	Alarm w/ Multi-Trigger continuous email; Group recipient list.
Critical (red)	County leadership, EGS PM and Director.	All channels + configurable repeat-fire escalation if unacknowledged.	Alarm w/ Multi-Trigger; Include Current Parameters Value enabled; Group + individual recipient overlay.

Each Alarm carries its own active-days and active-hours mask, so a low-stage advisory that is informational during business hours but should escalate at night is configurable without writing custom code. Each Alarm carries its own Reset Conditions and Reset Action; the County receives an automated closure email when a condition clears, which serves as the system-of-record entry that an event ended. Alarm Groups are managed centrally; adding a new on-call name to one Group propagates to every Alarm that uses that Group, which avoids the contact-list drift typical of older notification systems.

Recipients, Channels, and Distribution Lists

Recipient lists are unlimited and managed in two parallel modes inside each Alarm: an individual-email list (one address per line) and a Group (a centrally managed named distribution list). SMS delivery uses each U.S. carrier's email-to-SMS gateway (entries like cellnumber@vtext.com for Verizon, cellnumber@txt.att.net for AT&T, cellnumber@tmomail.net for T-Mobile, cellnumber@email.uscc.net for US Cellular), so SMS-eligible contacts are added to the same Group as their email contact and no separate SMS gateway subscription is required. EGS pre-loads the Group configuration at kickoff using contact rosters the County provides; the County controls all subsequent membership through Manage Groups in ADMIN, Alarms.

Pre-Deployment Verification

Every Alarm configured on the County's project is verified before it is enabled in production. The platform's built-in TEST button issues a synthetic alarm to the configured recipient list with a labeled "Test Alarm" subject line and a default zero parameter value, which exercises the full notification path without writing a real alarm event into the history. EGS executes a documented TEST run for every Alarm on every site at commissioning, and again whenever a threshold, recipient, or Group is changed; the test results are attached to the Alarm's configuration history.

Reporting Cadence (Sampling/Transmission Frequency during Flood and Hurricane Events)

Table below shows reporting cadence by operational mode. Cadence values shown are the minimums EGS commits to; actual values are configured per-site at commissioning.

Mode	Sampling interval	Transmission interval	Activation
Normal	1 to 6 min (per parameter)	Hourly	Default state.
Elevated	1 to 3 min	Every 30 min	NWS Flood Watch; or any site crossing the Advisory threshold.
Storm	30 s to 1 min	Every 15 min	NWS Tropical Storm Watch or higher for Charlotte County; or County request.
Recovery	1 to 3 min	Every 30 min	Held for 48 h after storm-mode de-activation.

Cadence changes are pushed remotely to the X3 from the WQData LIVE Device Remote Configuration interface (ADMIN, Settings, Project/Site, Devices), which exposes Changing Data Logger Transmission Interval, Changing Sensor Log Intervals, and Averaging Logged Sensor Data as standard remote-config actions. No physical site visit is required to put the network into storm cadence.

Storm-Mode Activation Procedure

EGS recommends storm-mode activation to be triggered three ways. The County can notify EGS by phone or email and EGS activates within minutes; the County can trigger it directly using pre-built Storm cadence templates EGS configures in WQData LIVE at commissioning, giving County staff one-click control without EGS in the loop; or EGS monitors NWS Tropical Storm Watches, NHC cones, and Flood Watches on monitored waterbodies and either contacts the County PM with a recommended activation, or, under pre-authorized criteria the County sets at kickoff, auto-activates and notifies the County PM immediately. Recovery cadence is held for forty-eight hours after stand-down so the County retains high-resolution data through the post-event water-level recession.

Continuity Through Category 3+ Conditions

Continuity of monitoring through Category 3 and higher conditions is engineered into the standard station design rather than configured at the platform layer. The IP-67 (or better) sealed enclosures on the X3 and the VEGAPULS C 23 radar, Fondriest-engineered structural mounts, signed and sealed by WGI's Professional Engineer for the site's wind-load tier (100 mph at non-critical sites, 140+ mph at public-safety-critical sites), the Iridium short-burst-data fallback path on the X3 at critical sites, and the logger's on-board storage that backfills telemetry gaps when transmission resumes all contribute.

Public-Facing Communication During Events

WQData LIVE's Public Portal provides a public URL with simplified live data display that the County can stand up during a storm event to share situational awareness with the public. The portal is enabled and disabled from ADMIN, Public Portal; the County selects which sites and parameters are visible, configures a custom message for the portal (for example, a storm-event advisory link to the County's EOC), selects a data window (24 hours, 7 days, 14 days, or 30 days), and chooses which site is shown by default. EGS supports the County in pre-configuring the portal at commissioning so that it can be enabled with a single click when needed; the portal is disabled by default and shows only the data the County explicitly checks for display.

CHARLOTTE COUNTY

PURCHASING DIVISION

18500 Murdock Circle, Suite 344
Port Charlotte, Florida 33948



WATER ELEVATION MONITORING SERVICES – ANNUAL CONTRACT

RFP No.: 2260423

June 3, 2026

SECTION 6

**PRESENT EXAMPLES OF RECENTLY
ACCOMPLISHED SIMILAR PROJECTS**

Section VI — Examples of Recently Accomplished Similar Projects

Charlotte County RFP No. 20260423, Water Elevation Monitoring Services, Annual Contract

Part VI of the Consultant Evaluation Form asks the firm to present recent projects in which it has designed, installed, and operated multi-site surface water level or flood-monitoring networks, and to provide evidence of uptime, reliability, and Quality Assurance and Quality Control (**QA/QC**). The projects below are drawn from EGS's active Florida remote-monitoring work, which uses the same radar and datalogger equipment family proposed for Charlotte County. EGS describes each project honestly: most instrument existing stormwater facilities rather than coastal tide stations, but they demonstrate the directly transferable capabilities the County requires, the design, installation, and continuous operation of multi-site water-level and rainfall monitoring, and the conversion of that data into defensible engineering output.

VI.A Similar Surface Water and Flood-Monitoring Networks

Active FDOT and Municipal Remote Water-Level Monitoring Program

EGS currently designs, installs, and operates remote surface water-level sensors for the Florida Department of Transportation (**FDOT**) and other municipalities statewide to evaluate existing stormwater facilities for additional infiltration capacity. On one (1) FDOT District 3 roadway-widening project in Bay County, EGS is instrumenting more than 40 facilities concurrently. Site types: urban stormwater and pond facilities. Sensor technology: non-contact radar and datalogger water-level stations with rainfall correlation. Length of operation: active and ongoing across multiple contracts. This program is the closest analog to the Charlotte County scope in scale and equipment.

FDOT District 3, State Road 30 (US 98) Widening, Remote Sensor Installation (Walton County)

EGS installs remote monitoring equipment at existing stormwater facilities along the corridor, including five (5) existing ponds and 45 linear facilities. Site types: riverine-adjacent and urban stormwater. Data captured: rainfall and infiltration response from actual site conditions, compared against permitted rates. This project demonstrates EGS managing a larger multi-site network and using the data to support engineering decisions and reduce project impacts.

Bannerman Road Improvement, Stormwater Facility Datalogger Monitoring (Leon County)

EGS instrumented an existing stormwater management facility with an electronic staff gauge and datalogger, recording water depth hourly, 24 hours a day, alongside daily precipitation, and developed a measured field infiltration curve across multiple storm events. Site types: single urban stormwater facility. Length of operation: continuous monitoring campaign. The project shows EGS's ability to capture continuous water-level and rainfall data and convert it into defensible parameters.

City of Homestead, Continuing Geotechnical and Monitoring Services

Under the City's continuing services program (RFQ 202509, executed April 2026), EGS can instrument ponds, canals, drainage features, and groundwater observation points with remote sensors, dataloggers, and electronic staff gauges on a task-order basis. The contract demonstrates EGS delivering remote monitoring for a municipal client under an annual, task-order vehicle, the same model as Charlotte County's annual contract.

EGS also serves as Prime Consultant and Geotechnical Engineer of Record on Nassau County's continuing services contract (CM3490) and holds more than 50 active continuing services contracts with governmental agencies across Florida, evidence of sustained capability to manage long-term, multi-site public-agency programs.

VI.B Uptime, Reliability, and QA/QC Track Record

EGS understands the RFP requirement for documented uptime and reliability. The firm will not invent a statistic for a new class of active remote sensor deployments. Instead, EGS provides three reliability controls that the County can verify and monitor over the life of the contract: manufacturer supported equipment and platform documentation from Fondriest and NexSens, contract level network health monitoring and response, and transparent quarterly availability reporting for every station.

Reliability Element	EGS Approach
Reliability element	EGS approach
Non storm network availability	EGS will monitor every station continuously, track missed transmissions, battery trends, signal strength, sensor diagnostics, and platform availability, and report measured availability to the County each quarter.
Storm event continuity	EGS will configure normal, elevated, storm, and recovery modes. Cellular will be primary for the vast majority of stations, and select coastal storm priority sites may use satellite fallback where available and approved.
Telemetry outage protection	The NexSens X3 logger stores data locally so telemetry outages do not automatically become data gaps. When communications recover, the logger can backfill stored data to the platform.
Equipment standardization	Using one logger family, one platform, one primary radar sensor family, and standardized solar power reduces training, spare parts, troubleshooting, and maintenance complexity.
Manufacturer support	Fondriest and NexSens support equipment procurement, configuration, telemetry, data platform operation, and escalation for equipment or platform issues.
Quarterly reporting	EGS will provide station status, uptime, missed transmissions, maintenance actions, issue resolution, storm mode activity, and improvement recommendations each quarter.

VI.B.2 QA/QC Framework Applied to Similar Networks

EGS will apply a QA/QC framework equivalent in intent to National Oceanic and Atmospheric Administration (NOAA) Quality Assurance of Real Time Oceanographic Data (QARTOD) principles. The system will preserve raw measurements, create corrected NAVD88 water surface elevations, assign quality indicators, support manual review, and document corrections or annotations. The County will be able to see quality indicators through the platform and retrieve quality information through exports or the REST API.

QA/QC Control	How It Is Communicated to End Users
QA/QC control	How it is communicated to end users
Range test	Flags values outside expected physical or site specific limits.
Rate of change test	Flags sudden stage changes that exceed reasonable hydrologic behavior for the site.
Flat line test	Flags a sensor that reports an unchanged value for an abnormal duration.
Missing data test	Flags missed samples, missed transmissions, and data gaps for review.
Battery and telemetry diagnostics	Tracks power, communications, and device health to identify issues before data loss occurs.
Manual review and annotation	EGS reviews flagged data, documents the decision, preserves raw data, and provides corrected or annotated data where appropriate.

Reference contacts for each firm and for the lead PM will be provided in the required reference attachment (see following pages). EGS will also provide Fondriest/NexSens equipment and platform documentation as part of the equipment and technical support materials.

FIRM EXPERIENCE

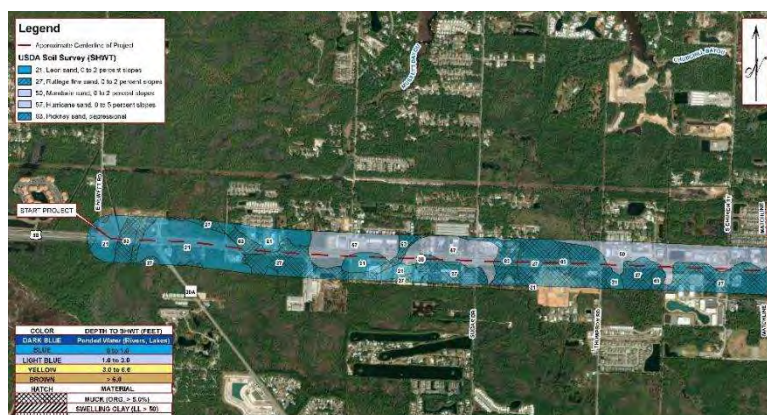
FDOT District 3 - SR 30 (US 98) Widening – Remote Sensor Installation

EGS was awarded the geotechnical engineering services for the FDOT State Road 30 (US 98) widening from east of CR 30A to west of J.D. Miller Road in Walton County. The proposed capacity improvement requires geotechnical support for roadway, drainage, and stormwater management design. EGS's scope includes subsurface exploration, laboratory testing, groundwater evaluation, seasonal high water table assessment, and geotechnical recommendations for the design team. This project was awarded in 2026 and is on-going currently.

Innovative stormwater monitoring approach:

- **Remote instrumentation of existing facilities** - EGS will install remote monitoring equipment at existing stormwater management facilities (SWMFs) along the corridor, including five existing ponds and 45 linear SWMFs, to collect storm-event data from actual site conditions.
- **Rainfall and infiltration response data** - The monitoring program will record observed rainfall and facility response so EGS can evaluate infiltration and recovery performance using measured data rather than relying only on assumed design values.
- **Permit comparison and capacity evaluation** - EGS will compare the observed infiltration rate of each facility with its permitted infiltration rate to determine whether additional stormwater capacity can be credited within the existing system.
- **Reduced project impacts** - By identifying available capacity in the existing facilities, the team can minimize or avoid construction of new stormwater ponds, reduce right-of-way and environmental impacts, and support cost-effective delivery of the State Road 30 widening.

This approach demonstrates EGS's ability to integrate geotechnical engineering, hydrologic monitoring, and practical design support to solve project-specific drainage challenges. The resulting data-driven recommendations will help FDOT maximize existing assets, manage stormwater design risk, and preserve valuable corridor space for the proposed improvements.



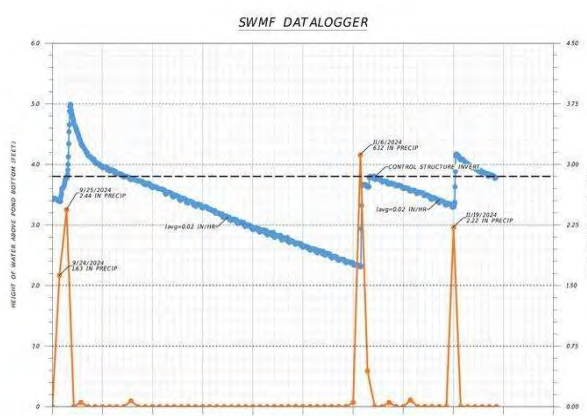
KEY STAFF	FIELD SERVICES	LAB SERVICES	GEO DESIGN	QA/QC REVIEW
MATT LANDSCHOOT, P.E.			X	
CHANDRA SAMAKUR, P.E.				X
CRAIG DUNKELBERGER, P.E.				X
KATIE MORALES, P.E.			X	
ISABELLA CAPORINI, E.I.			X	
CAMERON RICHARDS		X		
MATT McCONNELL	X			
JOSH NELSON	X			

Bannerman Road Improvement - SWMF Datalogger Monitoring

Single-facility remote monitoring approach:

- This project demonstrates **EGS's** ability to apply remote monitoring technology to existing stormwater infrastructure and convert short-term field data into practical design parameters. The data-driven approach provided a defensible understanding of actual SWMF infiltration performance and supported cost-effective drainage design decisions for the Bannerman Road Improvement Project.

LOCATION:	TALLAHASSEE / LEON COUNTY, FL
CLIENT:	RS&H, INC.
CLIENT CONTACT:	WILLIAM WALDROFF, P.E.
SCHEDULE:	COMPLETED / DECEMBER 2024
RESPONSIBLE OFFICE:	TALLAHASSEE / JACKSONVILLE
PERFORMED IN-HOUSE:	YES



KEY STAFF	FIELD SERVICES	LAB SERVICES	GEO DESIGN	QA/QC REVIEW
MATT LANDSCHOOT, P.E.			X	
CHANDRA SAMAKUR, P.E.				X
CRAIG DUNKELBERGER, P.E.				X
KATIE MORALES, P.E.			X	
ISABELLA CAPORINI, E.I.			X	
CAMERON RICHARDS		X		
MATT McCONNELL	X			
JOSH NELSON	X			

FIRM EXPERIENCE

City of Homestead - Continuing Geotechnical Services

EGS was selected by the **City of Homestead** for its Professional Architectural and Engineering Services continuing contracts program under RFQ 202509. The contract was executed in April 2026 and provides a task-order vehicle for Citywide environmental and geotechnical services. **EGS** was selected in part because of its specialized remote sensor capabilities, including remote stormwater monitoring and water-level monitoring services, which are offered by only a limited number of firms in Florida. This Contract was awarded in late 2025 and is on-going.

Continuing services and remote monitoring approach:

- **Full-service geotechnical support** - **EGS** intends to provide subsurface explorations, roadway and site evaluations, laboratory testing, groundwater assessments, seasonal high water table evaluations, design parameters, and geotechnical recommendations for City infrastructure projects issued by task order.
- **Remote stormwater monitoring** - Where existing or proposed stormwater management facilities require performance evaluation, **EGS** can deploy remote sensors, dataloggers, electronic staff gauges, and related equipment to measure rainfall response, drawdown, water-level recovery, and infiltration behavior over time.
- **Water-level monitoring** - **EGS** can instrument ponds, canals, drainage features, groundwater observation points, and other City assets to document water-level trends that support drainage, resiliency, design, maintenance, and permitting decisions.
- **Task-order flexibility for the City** - As individual assignments are negotiated, **EGS** can combine traditional geotechnical engineering with remote monitoring data to reduce uncertainty, validate existing conditions, identify available system capacity, and support cost-effective infrastructure decisions.

This continuing services contract demonstrates **EGS's** ability to support a municipal client with both full-service geotechnical engineering and innovative remote monitoring technology. By pairing field investigations with measured stormwater and water-level data, **EGS** will help the City of Homestead make defensible, data-driven decisions as task orders are authorized and negotiated.

FIRM ROLE:	PRIME CONSULTANT
PROJECT MANAGER:	THOMAS HAYDEN, P.E.
EGS DESIGN FEE:	TASK ORDER BASIS
CONSTRUCTION COST:	VARIES BY TASK
CONTRACT LENGTH:	5-YEAR CONTINUING

LOCATION:	HOMESTEAD, FL
CLIENT:	CITY OF HOMESTEAD
CLIENT CONTACT:	ZERRY THEKWABA, PH.D., P.E.
SCHEDULE:	EXECUTED APRIL 2026 / ACTIVE
RESPONSIBLE OFFICE:	WEST PALM BEACH
PERFORMED IN-HOUSE:	YES

CITY OF HOMESTEAD CONTINUING SERVICES



**Geotechnical Engineering
+ Remote Monitoring**
RFQ 202509 | Executed April 2026
Task order services for City infrastructure

**FULL-SERVICE
GEOTECHNICAL**
 Exploration, lab testing,
design recommendations

**REMOTE SWMF
MONITORING**
 Rainfall response,
drawdown, infiltration
behavior

**WATER-LEVEL
MONITORING**
 Surface water and
groundwater trends over
time

KEY STAFF	FIELD SERVICES	LAB SERVICES	GEO DESIGN	QA/QC REVIEW
THOMAS HAYDEN, P.E.			X	X
MATT LANDSCHOOT, P.E.			X	
CHANDRA SAMAKUR, P.E.				X
CRAIG DUNKELBERGER, P.E.				X
KATIE MORALES, P.E.			X	
ISABELLA CAPORINI, E.I.			X	
CAMERON RICHARDS		X		
MATT MCCONNELL	X			

FIRM EXPERIENCE

FDOT District 2 – District-Wide Geotechnical Contract

EGS was awarded the FDOT District 2 District-Wide Geotechnical Contract as the prime consultant to provide comprehensive geotechnical and materials testing services across the District. Under this multi-year contract, EGS has performed subsurface explorations, forensic evaluations, pavement investigations, laboratory testing, and construction support for a wide range of transportation infrastructure projects.

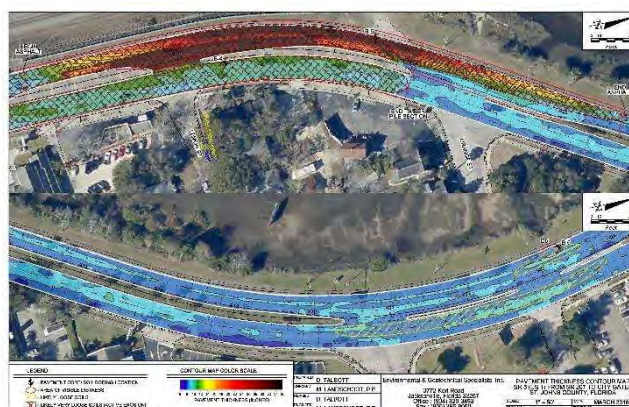
Representative Task Work Orders (TWOs) include:

- **I-95 Southbound Center and Outside Travel Lanes Void Evaluation** – Conducted geotechnical borings, coring, and forensic analysis to assess subsurface voids beneath travel lanes, with recommendations for remediation to restore long-term pavement performance.
- **SR 55 (US 19) Depression North of SR 24** – Performed borings, Dynamic Cone Penetrometer (DCP) testing, and laboratory classification to evaluate subgrade instability and develop sinkhole mitigation strategies for an active karst (sinkhole) formation below the existing travelway.
- **SR 212 Westbound Outside Travel Lane Void Evaluation** – Investigated roadway settlement through SPT borings, geophysical surveys, subgrade analysis, and moisture-density testing, recommending targeted subgrade replacement and compaction control.
- **US 98 Roadway Depressions** – Evaluated multiple depression areas using pavement coring, Ground Penetrating Radar (GPR), lab testing, and engineering analysis, developing cost-effective remediation options including undercut and replacement, stabilization, and drainage improvements.

Over the last 12 years, EGS has been awarded more than five prime consultant, five-year geotechnical contracts with FDOT District 2. This sustained history reflects FDOT's continued confidence in our ability to deliver high-quality geotechnical engineering services and respond quickly to the Client's evolving needs. Our long-standing relationship with District 2 is built on a proven record of meeting tight schedules, providing accurate and reliable design parameters, and implementing innovative investigation methods that improve project efficiency and cost-effectiveness.

FIRM ROLE:	PRIME CONSULTANT
PROJECT MANAGER:	MATT LANDSCHOOT
EGS DESIGN FEE:	VARIES (>\$1M)
CONSTRUCTION COST:	UNKNOWN (>\$5M)
CONTRACT LENGTH:	2024 - 2029

LOCATION:	LAKE CITY, FLORIDA
OWNER CONTACT:	ZHIHONG HU, Ph.D, P.E.
OWNER ADDRESS:	1109 SOUTH MARION ST, LAKE CITY FL
SCHEDULE:	ON-TIME / ACCELERATED
RESPONSIBLE OFFICE:	JACKSONVILLE, GAINESVILLE, OCALA
PERFORMED IN-HOUSE:	YES



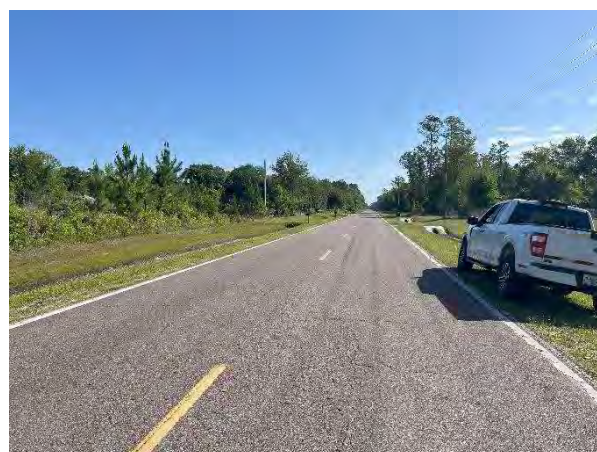
KEY STAFF	FIELD SERVICES	LAB SERVICES	GEO DESIGN	QA/QC REVIEW
MATT LANDSCHOOT, P.E.			X	
CHANDRA SAMAKUR, P.E.				X
CRAIG DUNKELBERGER, P.E.				X
KATIE MORALES, P.E.			X	
ISABELLA CAPORINI, E.I.			X	
CAMERON RICHARDS		X		
MATT McCONNELL	X			
JOSH NELSON	X			

FIRM EXPERIENCE

Nassau County – Continuing Contract For Professional Geotechnical Services (Contract No. CM3490)

EGS serves as the Prime Consultant and Geotechnical Engineer of Record (EOR) under Nassau County's Continuing Services Contract for geotechnical engineering, supporting a broad range of capital improvement projects on a task work order (TWO) basis. Our scope under this contract has included subsurface investigations, pavement coring and design, shallow and deep foundation evaluations, percolation and infiltration testing, and slope stability assessments. EGS has delivered geotechnical design and construction support for roadway widening, drainage upgrades, stormwater infrastructure, and public facilities throughout the County. Notable projects include subsurface evaluations for the SR A1A / SR 200 Corridor, US 1 from Rhoden Lane to Pratt Siding Road, CR 121 corridor improvements, the CR 108 Phase I Extension, along with various intersection improvements. Each of these Projects required precise foundation recommendations, mast arm design parameters, and soil stabilization strategies.

EGS's performance on this contract is distinguished by its deep familiarity with Florida soil conditions, fast turnaround of deliverables, and seamless integration with Nassau County's Public Works staff and consultants. We maintain an open line of communication with County engineers to align our exploration programs with project development stages, from concept through final design. Our ability to self-perform traffic control, field drilling, and lab testing in-house has allowed us to remain highly responsive, even when urgent or phased field mobilizations are required. This contract exemplifies EGS's capability to support the cities infrastructure needs with consistency, technical depth, and schedule-driven execution.



FIRM ROLE:	PRIME
PROJECT MANAGER:	MATT LANDSCHOOT
EGS DESIGN FEE:	VARIES (>\$200K)
TOTAL DESIGN FEE:	UNKNOWN (>\$2M)
CONSTRUCTION COST:	UNKNOWN (>\$5M)
CONTRACT LENGTH:	2023 - 2028

LOCATION:	NASSAU COUNTY
OWNER CONTACT:	GEORGE MURRAY
OWNER ADDRESS:	96161 NASSAU PLACE, YULEE FL
OWNER EMAIL:	GMURRAY@NASSAUCOUNTYFL.COM
SCHEDULE:	ON-TIME AND ACCELERATED
RESPONSIBLE OFFICE:	ALL OFFICES (STATE-WIDE)
PERFORMED IN-HOUSE:	YES

KEY STAFF	FIELD SERVICES	LAB SERVICES	GEO DESIGN	QA/QC REVIEW
MATT LANDSCHOOT, P.E.			X	
CHANDRA SAMAKUR, P.E.				X
CRAIG DUNKELBERGER, P.E.				X
TOM HAYDEN, P.E.			X	
KATIE MORALES, P.E.			X	
CAMERON RICHARDS		X		
MATT McCONNELL	X			
JOSH NELSON	X			

CHARLOTTE COUNTY

PURCHASING DIVISION

18500 Murdock Circle, Suite 344
Port Charlotte, Florida 33948



WATER ELEVATION MONITORING SERVICES – ANNUAL CONTRACT

RFP No.: 2260423

June 3, 2026

SECTION 7

**DESCRIBE YOUR EXPERIENCE AND
CAPABILITIES IN THE FOLLOWING AREAS**

Section VII: Experience and Capabilities

Charlotte County Request for Proposals (RFP) No. 20260423, Water Elevation Monitoring Services, Annual Contract

This section responds to Item VII of the Consultant Evaluation Form and describes EGS capabilities for continuous operations, network management, maintenance, equipment management, data QA/QC, diagnostics, technical support, training, and coordination.

VII.A Continuous Monitoring Operations and Network Management

EGS will operate the Charlotte County network as a managed service. Each station will be monitored for water level reporting, data transmission, power condition, sensor status, alert status, and platform availability. The County receives the benefit of a real time network without having to become the daily system operator.

VII.A.1 Fully Managed Operational Approach

The operational approach has three layers. First, WQData LIVE receives and displays sensor data, maintains site metadata, supports alarms, and provides exports and REST API access. Second, EGS monitors station health, reviews diagnostics, responds to outages, and coordinates field service. Third, Fondriest and NexSens provide equipment and platform escalation support when manufacturer level assistance is required. EGS remains the County facing point of contact throughout the process.

Monitoring Item	EGS Operational Action
Missed transmission	Create internal ticket, check platform status, check communications status, review station history, and escalate if the issue persists.
Battery or solar trend	Review power diagnostics, schedule preventive maintenance, and replace components as needed.
Sensor health or suspect data	Apply automated QA/QC tests, perform manual review, annotate or correct data as appropriate, and preserve raw readings.
Alert or threshold issue	Confirm threshold settings, recipient lists, notification pathway, and escalation logic.
Platform or API issue	Troubleshoot user access, exports, API keys, query limits, dashboard behavior, and vendor escalation as needed.
Storm threat	Confirm storm mode readiness, communication settings, critical site status, spare equipment, and extended support coverage.

VII.A.2 Connectivity, Data Plans, and Remote Configuration

EGS will manage the cellular data plans, Subscriber Identity Module cards, telemetry settings, and remote configuration for the network. Consistent with Addendum No. 2, the vast majority of stations will rely exclusively on cellular communications for day to day monitoring. Select coastal storm priority sites may be configured with satellite capability if such option is available and approved by the County. This approach controls cost while preserving a resilience option for the most important storm response locations.

Operating Mode	Typical Trigger	Sampling and Transmission Posture	EGS Action
Normal mode	Routine operations outside storm or flood periods.	High frequency sampling consistent with RFP requirements and hourly transmission minimum.	Monitor health, data quality, alerts, and diagnostics.
Elevated mode	County request, rising water pattern, forecasted heavy rainfall, or operational concern.	Increase review frequency and adjust reporting if needed.	Confirm alert lists, review critical stations, and notify County of status.
Storm mode	NWS or NHC trigger, named storm, tropical storm or hurricane watch or warning, flood watch, or County request.	High frequency sampling and at least 15 minute transmission during storm operations.	Provide extended support, monitor stations continuously, and issue situation reports.
Recovery mode	Storm mode stand down and safe post event access.	Continue enhanced review during recovery and backfill any stored data.	Inspect critical sites, document damage, replace equipment as needed, and prepare post event data summary.

VII.B Maintenance, Field Response, and Equipment Management

VII.B.1 Preventive and Corrective Maintenance Program

EGS will maintain the network through scheduled preventive maintenance, diagnostics driven service, and corrective response. Preventive maintenance focuses on avoiding failures before they affect data availability. Corrective maintenance focuses on restoring service safely and quickly when a problem occurs. The maintenance program covers the sensor, logger, solar and battery system, mounting hardware, enclosure, wiring, telemetry, and platform configuration.

Maintenance Activity	Typical Frequency or Trigger	Purpose
Station visual inspection	Scheduled preventive visit and after major storms where access is safe.	Check mounting, enclosure, wiring, weatherproofing, vandalism, debris, corrosion, and accessibility.
Battery and solar inspection	Scheduled preventive visit and diagnostic trigger.	Confirm charging, battery condition, solar panel condition, cable integrity, and power margin.
Sensor verification	Commissioning, preventive visits, flagged data, or County request.	Compare readings against a reference measurement, check alignment, and confirm measurement confidence.
Structural and mounting inspection	Preventive visit, post storm inspection, or observed disturbance.	Confirm mount condition, hardware, security, and maintenance access.
Telemetry check	Continuous diagnostics and preventive visit.	Confirm cellular signal, data plan, antenna condition, and satellite fallback where installed.
Annual hurricane readiness audit	Completed before each Atlantic hurricane season.	Confirm power, telemetry, storm mode configuration, critical site status, spare equipment, and contact lists.

VII.B.2 Response Times, Spares, Storm Damage, and Vandalism

EGS will use the response time requirements in the RFP as minimum commitments. Critical site issues, storm preparation issues, and public safety monitoring issues receive field response within 72 hours when access and safety allow. Non critical site issues receive field response within 14 business days. If the County classifies an issue as critical, EGS will treat it as critical.

Issue Type	Response Procedure
Critical site offline or at risk during storm preparation	Open Sev 1 ticket, notify EGS PM, check remote diagnostics, coordinate field response within 72 hours where safe, deploy spare equipment if needed, and update County until closure.
Non critical station issue outside storm conditions	Open Sev 2 ticket, troubleshoot remotely, schedule field response within 14 business days, complete repair or replacement, and document closure.
Vandalism or physical damage	Document with photographs, secure the site, replace damaged components, evaluate access or security improvements, and provide repair record.
Storm damage	Prioritize critical sites first, inspect when safe access is available, recover locally stored data where possible, replace equipment, and prepare post event summary.
Spare equipment need	Use maintained inventory of sensors, loggers, power components, communications components, and mounting accessories to avoid waiting on procurement.

The proposed service includes equipment replacement for malfunctioning sensors, spare equipment management, cellular plan management, platform fees, REST API access, data access, support, upgrades, and required maintenance within the proposed service approach.

VII.C Data QA/QC and Diagnostics

VII.C.1 Automated Tests, Manual Review, and Data Storage

EGS will treat data QA/QC as an operational requirement, not a post project cleanup task. Each station produces raw measurements with timestamps. The platform and EGS processes convert those measurements into corrected NAVD88 water surface elevations, apply or display quality indicators, and preserve the raw data so any correction is traceable. Manual review is used when automated tests flag data that may need annotation, correction, or confirmation.

QA/QC Procedure	Purpose	Documentation
Range test	Identify values outside expected site limits.	Flag in data record and review summary.
Rate of change test	Identify sudden changes that exceed site specific hydrologic expectations.	Flag in data record with reviewer disposition.

QA/QC Procedure	Purpose	Documentation
Flat line test	Identify stuck sensors, blocked measurements, or frozen values.	Flag and create maintenance review if needed.
Missing data test	Identify missed samples, missed transmissions, and telemetry gaps.	Track in availability report and backfill where logger storage permits.
Manual review	Determine whether suspect data should remain flagged, be annotated, or be corrected.	Reviewer note, correction method, effective time, and raw data preservation.
Corrected data calculation	Convert sensor distance or raw measurement into NAVD88 water surface elevation.	Site metadata, survey offset, units, and datum record.

VII.C.2 Quality Indicators, Flags, and Diagnostics Reporting

Quality indicators will be visible to end users in a clear way, such as good, suspect, bad, missing, or equivalent status values negotiated with the County. These indicators allow Emergency Management, Water Quality, Public Works, Utilities, consultants, and modelers to understand whether a value is ready for immediate use, needs caution, or has been excluded from analysis. EGS will document the flag definitions in the user guide and training materials.

Diagnostic	How EGS Uses It
Battery level and charging behavior	Identifies power system degradation before the station goes offline.
Communication status and signal strength	Identifies cellular coverage issues, antenna issues, and telemetry degradation.
Last contact timestamp	Shows the most recent successful station communication and triggers missed transmission review.
Sensor health	Supports fault detection, flagged data review, and replacement decisions.
Alarm state	Confirms advisory, warning, critical, and storm mode conditions are visible and routed to proper recipients.
Survey and datum metadata	Ensures each corrected elevation remains tied to the proper NAVD88 survey record and offset.

VII.D Technical Support, Training, and Coordination

D.1 Help Desk and Technical Support Model

EGS provides a single-point-of-contact technical support model for the County's water elevation monitoring network. Every County request, whether a platform question, a hardware fault, or a storm-prep coordination call, enters one EGS service queue routed to one named EGS Project Manager. The County is never asked to triage its own issue or to decide which

vendor to call. EGS owns the ticket from intake to resolution and owns the escalation path to NexSens (via Fondriest Environmental, with Paul Nieberding as the EGS partner contact) and to the underlying sensor manufacturer when needed.

Standard and Extended Hours

The EGS help desk operates Monday through Friday, 8:00 a.m. to 5:00 p.m. Eastern Time as its standard window, with live telephone answer, live email response, and active monitoring of the web ticketing portal during those hours. Coverage extends automatically to 24-hour, 7-day operation whenever a National Weather Service tropical storm watch or warning, hurricane watch or warning, or flood watch or warning is active for Charlotte County or an immediately adjacent county, or whenever the County declares an emergency. Extended coverage begins without a separate County request, and the County PM receives a phone and email notification when extended coverage starts and again when it stands down. During extended coverage the assigned EGS Project Manager or a designated alternate is on call at all hours, the platform is monitored continuously by EGS network operations staff, and the County receives a daily situation report by email summarizing the previous twenty-four hours of site uptime, alert events, and any equipment or telemetry issues.

Methods of Contact

Four contact channels are available to the County and all feed the same ticket queue: a dedicated EGS support telephone line answered live during business hours and by the on-call PM during extended coverage; a dedicated support email address that auto-creates a ticket and replies with the ticket number; a web ticketing portal that lets County users open, view, comment on, and close their own tickets; and an in-platform support link inside the WQData LIVE interface that pre-populates site and parameter context into a new ticket so a user reporting a suspect reading does not have to copy site IDs by hand.

Severity Tiers and Response Targets

Every ticket is assigned a severity tier on intake. The tier determines the response-time commitment and the escalation path. Tiers are deliberately simple so County users see a predictable response behavior:

Tier	Definition	Initial response	Resolution target
Sev-1	Network-wide outage; any critical site silent during a storm watch or warning; alerting subsystem inoperative; data loss in progress.	≤ 1 hour, 24×7	≤ 72 hours (critical / storm-prep window).
Sev-2	Single non-critical site offline outside a storm; persistent QA/QC flagging on one site; platform feature degraded but workable.	≤ 1 business day	≤ 14 business days (non-critical).
Sev-3	Configuration change request; data-extract question; training follow-up; documentation request; feature enhancement request.	≤ 2 business days	Negotiated with County PM; tracked in standing review.

Response times are measured to first substantive human response, not to auto-acknowledgement, and resolution times are measured to the County's written acceptance that the ticket is closed. If there is ever a disagreement on tier assignment, the County's classification is decisive.

Continuous Network Monitoring and Escalation

Independent of the County-facing help desk, EGS runs a 24-hour network monitor that watches for missed transmissions, persistent QA/QC flag patterns, battery state-of-charge trending below threshold, telemetry signal degradation, and platform-side alerting failures. Detected anomalies generate an EGS-internal ticket automatically; the County typically receives a proactive notification that the issue is already in remediation, rather than having to discover and report the fault. For manufacturer-level issues (X3 firmware anomalies, VEGAPULS C 23 calibration questions, WQData LIVE platform incidents), EGS escalates to NexSens engineering through Fondriest Environmental, with the EGS PM remaining the single point of County contact throughout.

D.2 Training and End-User Education

Training is treated as a contract deliverable in its own right. The County's investment in this network is realized only when Emergency Management, Water Quality, Utilities, and Public Works staff use the data fluently, configuring their own alerts, pulling their own exports, building their own dashboard views, and interpreting QA/QC flags without needing to call the help desk for routine tasks. EGS's training program is role-tailored, scheduled across the life of the contract rather than concentrated at kickoff, and delivered through multiple modalities so that staff turnover does not erode the County's capability.

Initial Program

Within thirty days of the first site cluster going live, EGS delivers an initial training program structured as four sessions, each tailored to a different user audience: Emergency Management (alert configuration, storm-mode behavior, mobile use during an event, after-action data pull); Water Quality (dashboard navigation, time-series interpretation, QA/QC flag meaning, exporting data for modeling); Utilities and Public Works (asset-level views, site-record content, maintenance ticket interaction); and Platform Administrators (user management, role definitions, dashboard authoring, threshold-template management). Sessions are delivered on-site with a simultaneous video-conference option, and every session is recorded and archived in the project's training library for reference and for onboarding new staff.

Standing Curriculum Modules

Training is organized as discrete modules so the County can request any module independently throughout the contract, for instance to re-train a role after personnel changes or to deepen expertise on a particular topic. Standing modules include platform navigation and dashboards, alert configuration and notification list management, data export and Florida public-records workflow, the WQData LIVE REST API for integration developers (covering API key issuance, endpoint usage, the 90-day query window, pagination, and rate-limit handling), and QA/QC flag interpretation. Where the County elects the optional advanced tidal analytics value-add, a dedicated module covers harmonic-constituent decomposition, surge separation from tidal-prediction signal, king-tide forecasting, and multi-datum conversion among NAVD88, MLLW, MSL, and MHHW. The tidal analytics module is included at no additional cost when the advanced analytics scope is exercised.

Self-Service Materials and Refresher Cadence

Every live session is recorded and posted to a County-private training library accessible from inside the WQData LIVE platform. The library also contains role-specific user manuals with screenshots reflecting the County's actual configured environment, role-based quick-reference cards short enough to be printed and laminated for storm-room reference, a glossary of QA/QC and sensor terms translated into the County's working vocabulary, and the WQData LIVE API reference with worked examples. EGS schedules an annual refresher session in late April, in advance of each Atlantic hurricane season, that walks Emergency Management and Water Quality staff back through alert configuration and storm-mode behavior, surfaces any platform changes since the prior season, and exercises the notification chain end-to-end with a test scenario. New-staff onboarding is available on a per-person basis as the County identifies new hires.

D.3 Performance Reviews and Five-Year Network Improvements

EGS proposes a standing quarterly performance review with the County, an annual deep-dive that rolls four quarters into a strategic look forward, and a continuous improvement roadmap that extends across the contract's full term and into the two optional renewal years. The cadence is structured so the County is never more than ninety days from a formal touch-point with EGS, and so decisions about site relocations, threshold tuning, sensor refresh, and platform evolution are made jointly and in writing rather than reactively.

Quarterly Review Cadence and Content

Quarterly reviews are scheduled at fixed dates set at contract kickoff (typically the second week of January, April, July, and October) so they enter County calendars on a predictable cycle. Each meeting runs approximately ninety minutes, held on-site with a remote-join option. The April meeting is hurricane-season-prep weighted, the October meeting is post-season debrief weighted, and the January and July meetings are general operations and improvement-planning weighted. Every review covers a consistent agenda so the County builds year-over-year comparable records:

Topic	What EGS presents
Site uptime	Per-site and network-aggregate uptime for the quarter and trailing twelve months, split between non-storm and storm windows.
Alert event log	Every threshold crossing in the quarter, with site, level, time, recipients notified, and outcome.
Storm-mode performance	For any storm or flood event in the quarter: storm-mode activation timing, sampling and transmission behavior, and any equipment or telemetry issues with root-cause and remedy.
QA/QC flag rates	Per-site flag frequency by flag type, sensor-drift trend indicators, and any manually re-reviewed data segments.
Maintenance posture	Completed preventive visits, open work orders, spare-parts inventory, and anticipated work for the next quarter.
Help desk activity	Ticket counts by tier, response and resolution time performance against targets, and recurring themes.
Network improvements	Proposed site additions or relocations, threshold-tuning recommendations, telemetry mix changes, and platform evolution.

A written quarterly performance report is delivered to the County PM at least three business days before each meeting, so the County reviews the data before the conversation rather than seeing it for the first time in the room. The report is loaded into the project's document repository in the platform and is preserved as a permanent contract record.

Annual Deep-Dive

Once per contract year, coincident with the October review, EGS delivers an annual deep-dive that rolls the year's quarterly data into a strategic review. The deep-dive covers full-year uptime against the contract performance thresholds, consolidated lessons from the year's storm events, sensor-by-sensor health trending with refresh recommendations, the next year's planned preventive and capital activities, and a written restatement of the remaining five-year improvement roadmap. The deep-dive doubles as the formal annual performance acceptance milestone tied to the renewal decisions at contract years three and four.

Five-Year Improvement Roadmap

EGS maintains a living five-year network improvement roadmap from contract kickoff forward. The roadmap is the County's working tool for planning capital, resiliency funding pursuits, and CIP alignment; it is not an EGS-internal document. Five categories are tracked continuously and reprioritized at each annual deep-dive: site footprint evolution (additions, relocations, and sunsets based on observed flood patterns and County CIP); sensor and datalogger refresh (phased schedule that smooths capital exposure across the contract); telemetry mix optimization (annual review of LTE versus Iridium fallback by site as carrier coverage evolves); threshold and QA/QC tuning (per-site recalibration as the network accumulates seasons of observed behavior); and platform and feature evolution (evaluating new WQData LIVE releases against the County's workflow and recommending adoption or deferral). All five categories are joint EGS-County decisions, documented in the WQData LIVE configuration history and in the quarterly performance reports.

Coordination with County Resiliency Funding Cycles

The network's data is a direct input to state and federal resiliency funding applications (the Florida Resilient Florida Program, FEMA Building Resilient Infrastructure and Communities, NOAA coastal-resilience grants, USACE study scopes). EGS coordinates the roadmap with the County's funding-pursuit calendar so proposed site additions or instrumentation upgrades align with grant submission windows. At the County's request, EGS provides supporting documentation, data extracts, and technical narratives for funding applications at no incremental cost during the contract term.

Summary

The support, training, and coordination model proposed here is structured to make the County's network usable, well-understood, and continuously improving rather than merely operational. A single EGS Project Manager owns every County-facing interaction; tiered severity rules give the County predictable response behavior; extended coverage activates automatically on NWS and County triggers without additional requests; role-tailored training delivered in multiple modalities and refreshed annually preserves capability through staff turnover; and a quarterly review cadence layered with an annual deep-dive and a five-year roadmap turns the contract into a planning instrument the County can drive against throughout the contract term and the two optional renewal years.

On behalf of EGS, we truly appreciate the opportunity to serve the County on this very important Contract, and hope to serve the County on its mission for decades to come,

Sincerely,



Thomas H. Hayden, P.E.

President – Environmental and Geotechnical Specialists, Inc.

P.E. No. 67492

CHARLOTTE COUNTY

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18500 Murdock Circle, Suite 344
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WATER ELEVATION MONITORING SERVICES – ANNUAL CONTRACT

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SECTION 8

**VOLUME OF WORK – TOTAL PAYMENTS
RECEIVED FROM COUNTY WITHIN THE PAST
24 MONTHS**

Section VIII — Volume of Work

Charlotte County RFP No. 20260423, Water Elevation Monitoring Services, Annual Contract

Part VIII of the Consultant Evaluation Form scores the total dollar value of payments the proposing firm has received from Charlotte County within the past 24 months. The scale rewards the lowest prior volume of County work: firms in the \$0 to \$49,999 range receive the maximum of five (5) points, and the score steps down in defined brackets to zero (0) points for firms that have received \$500,000 or more. The criterion gives the County a measure of how concentrated each firm's recent revenue has been with Charlotte County and favors firms that bring fresh, uncommitted capacity to a new annual contract rather than firms already carrying a heavy County workload.

VIII.A EGS Payments from Charlotte County

EGS has received zero dollars (\$0) in payments from Charlotte County within the past 24 months. This places EGS firmly in the \$0 to \$49,999 category and corresponds to the maximum of five (5) points available under this criterion. The figure is reported on the Proposal Submittal Signature Form under Magnitude of Charlotte County Projects, and EGS has no current, scheduled, or recently completed Charlotte County assignments that would change this total during the evaluation period.

Because EGS carries no existing Charlotte County workload, the firm is not balancing this contract against competing County obligations, open change orders, or close-out tasks on prior County projects. The professional staff, field technicians, surveying partners, and software specialists proposed for this contract are available to be dedicated to the water elevation monitoring network from Notice to Proceed forward, rather than being drawn away by other Charlotte County commitments. This is a direct, practical benefit to the County: the team the County evaluates in this proposal is the team that will actually be available to perform, without contention from a backlog of in-progress County work and without the divided attention that a large concurrent County portfolio can create.

VIII.B Statewide Capacity Behind a Clean County Slate

A zero balance with Charlotte County does not mean a thin résumé. EGS holds more than 50 active continuing services contracts with governmental agencies across Florida, including the Florida Department of Transportation (FDOT) Districts 2 and 3 and numerous counties and municipalities. That breadth gives EGS the equipment inventory, field crews, surveying partners, and software bench needed to mobilize quickly and to absorb the surge of a multi-site initial deployment. At the same time, the absence of any prior Charlotte County volume means none of that capacity is already committed to this County. EGS therefore offers Charlotte County both proven statewide depth and full, uncommitted availability for this specific contract, a combination that maps directly to the schedule commitments made in Section IV.

EGS recognizes that this criterion measures recent payments rather than capability, and that a low figure should be read alongside the experience presented in Sections I, III, VI, and VII. Taken together, those sections show a firm that is highly capable and actively engaged in comparable Florida monitoring work, yet enters this Charlotte County contract with no prior County revenue to divide its attention. EGS views that as the strongest possible position from which to begin a new annual relationship with the County.

VIII.C Reporting and Certification of the Figure

EGS confirms its \$0 figure through its accounting records and certifies the amount on the required Proposal Submittal Signature Form, which also captures the firm's overall magnitude of operations. Should the County identify any payment it believes EGS received within the measurement window, EGS will reconcile the record promptly and transparently and amend its certification if warranted. EGS understands that the accuracy of this figure is the basis for the points awarded under Part VIII, and the amount reported here and on the signature form is presented in good faith and is subject to the County's verification.



Thomas H. Hayden, P.E.

President – Environmental and Geotechnical Specialists, Inc.

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WATER ELEVATION MONITORING SERVICES – ANNUAL CONTRACT

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SECTION 9

LOCATION

Section IX: Location

Charlotte County Request for Proposals (RFP) No. 20260423, Water Elevation Monitoring Services, Annual Contract

This section responds to Item IX of the Consultant Evaluation Form and describes the responsiveness of the prime consultant and subconsultants as it relates to location.

IX.A Responsiveness of the Prime and Subconsultants

EGS will manage the contract from its Jacksonville office, with additional regional support available through EGS resources in its other 6 offices throughout the State. This structure gives Charlotte County executive level project management, Florida field depth, and Southwest Florida responsiveness. The team also includes Florida based specialty support for survey, coastal engineering, stormwater modeling, water quality, and field measurement services.

Team Member or Firm	Location or Service Base	Responsiveness Benefit
EGS, Matt Landschoot, P.E.	Jacksonville office	Prime management, direct County communication, schedule control, and executive authority to allocate EGS resources.
EGS regional support	Ft. Myers, West Palm Beach, Ocala, Inverness, Gainesville, and Tallahassee offices	Regional responsiveness for Southwest Florida field needs, storm preparation, post event checks, and coordination with County staff.
EGS platform and technical support	Tallahassee based technology staff with remote capability	Rapid platform, API, dashboard, training, and support response without requiring mobilization.
WGI, PSM support, structural design support	Offices across the State of Florida	Florida licensed survey support for NAVD88 control, benchmark recovery, site surveys, and sealed survey reports, as well as structural support for wind load evaluations.
Taylor Engineering	Jacksonville, Florida	Coastal field data support, water elevation and discharge measurements, current and tide measurement support, and environmental field services.
INTERA	Gainesville, Florida	Coastal hydrodynamics, storm surge, hydraulic, wave, and Charlotte County coastal experience.
Lochner	Florida drainage and stormwater support	Hydrologic and hydraulic modeling, stormwater management, flood mitigation, drainage design, and permitting support.
Eurofins	Florida water and wastewater laboratory support	Water quality sampling and laboratory support if requested by the County.
Fondriest Environmental and NexSens Technology	Remote equipment and platform support with shipment and technical support capability	Manufacturer level support for the data logger, telemetry, equipment ecosystem, and WQData LIVE platform.

IX.B How Location Translates into Service

For routine operations, many issues can be resolved remotely through platform diagnostics, telemetry review, API review, or configuration changes. When field response is needed, EGS will use its Florida field staff, regional support offices, and project specific spare equipment to reduce downtime. During storm preparation or recovery, EGS will prioritize critical coastal and public safety monitoring sites, coordinate safe access with the County, and document field conditions with photographs, repair notes, and updated station records.

IX.C Responsiveness and Rapid Field Mobilization

Location translates directly into the response commitments EGS makes elsewhere in this proposal: on-site response within 72 hours for critical sites, within 14 business days for non-critical sites, and immediate storm-preparation mobilization ahead of a forecast event. To make those commitments dependable rather than aspirational, EGS will hold a 20% spare equipment buffer of radar sensors, data loggers, and power components in its Florida offices, so replacement hardware is always within rapid driving distance of the network rather than on back order from out of state.

During a named-storm window, EGS pre-positions crews and spares regionally so that post-storm restoration begins as soon as conditions allow safe access, and the firm runs a network wide hurricane season readiness audit before June 1 each year to confirm that every site can be reached and serviced. The combination of a regional field office in Fort Myers, statewide sub-consultant coverage, leadership and data operations anchored in Jacksonville, and equipment staged locally in Florida gives Charlotte County a team that is genuinely close to the work

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WATER ELEVATION MONITORING SERVICES – ANNUAL CONTRACT

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SECTION 10

LITIGATION

Section X — Litigation

Charlotte County RFP No. 20260423, Water Elevation Monitoring Services, Annual Contract

Part X of the Consultant Evaluation Form asks whether the firm has been named as a defendant or co-defendant in a lawsuit within the last five (5) years and, if so, to describe the circumstances and outcome, including the case number, case name, and court. The criterion gives the County insight into a firm's risk profile, the stability of its professional relationships, and the discipline of its project delivery.

X.A EGS Litigation History

EGS has not been named as a defendant or co-defendant in any lawsuit within the past five (5) years.

Because there is no qualifying litigation to report, there is no case number, case name, or court to disclose. EGS makes this representation based on a review of its records and will supplement this response promptly if any matter is later identified that should be disclosed to the County.

X.B Why EGS Maintains a Clean Record

EGS's clean litigation history is a product of its business model and its quality practices, not coincidence. EGS works exclusively on behalf of owners and public agencies and does not work for contractors, which removes the most common source of conflict-of-interest disputes between design professionals and the construction parties they would otherwise serve. The firm's role on this contract, owning and operating a monitoring network on behalf of the County, places EGS squarely on the County's side of every technical and operational decision, and aligns the firm's interests with the County's throughout the term.

Operationally, EGS controls professional risk through disciplined Quality Assurance and Quality Control (QA/QC), documented deliverables, work signed and sealed by appropriately licensed professionals, and clear written scopes with each sub-consultant that define responsibilities and acceptance criteria before work begins. The monitoring network proposed here is built on the same principles: defined site-acceptance gates with County sign-off, a complete per-site record that includes survey reports and commissioning documentation, preserved raw and corrected data with a full audit trail, and a single accountable Project Manager who owns every County interaction. These practices reduce the ambiguity and the finger-pointing that lead to disputes, and they give the County a clear, well-organized record should any question about performance ever arise.

X.C Insurance and Team Conduct

EGS carries professional liability, commercial general liability, automobile, and workers' compensation insurance at levels appropriate to this work and will provide certificates of insurance that meet the County's contract requirements, naming the County as required. Maintaining current, adequate coverage is part of how EGS manages risk responsibly on every contract it holds.

EGS expects each proposed sub-consultant to maintain a comparable standard of professional conduct, licensure, and insurance, and EGS will disclose to the County any litigation matter involving a team member that is relevant to this contract. As the prime and single point of accountability, EGS stands behind the performance of its entire team.



ENVIAND-01

JWILLIAMS

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

1/30/2026

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Patriot Growth Insurance Services, LLC 1414 Piedmont Dr E Ste 200 Tallahassee, FL 32308-7967	CONTACT NAME: PHONE (A/C, No, Ext): (850) 894-2333 FAX (A/C, No): (850) 894-3129 E-MAIL ADDRESS: PatriotFL1-infolis@patriotgis.com																					
INSURED Environmental and Geotechnical Specialists, Inc. 3676 Hartsfield Road, Suite 100 Tallahassee, FL 32303	<table><tr><th colspan="2">INSURER(S) AFFORDING COVERAGE</th><th>NAIC #</th></tr><tr><td>INSURER A :</td><td>Southern-Owners Insurance Company</td><td>10190</td></tr><tr><td>INSURER B :</td><td>Auto-Owners Insurance Company</td><td>18988</td></tr><tr><td>INSURER C :</td><td>FFVA Mutual Insurance Company</td><td>10385</td></tr><tr><td>INSURER D :</td><td>Admiral Insurance Company</td><td>24856</td></tr><tr><td>INSURER E :</td><td></td><td></td></tr><tr><td>INSURER F :</td><td></td><td></td></tr></table>	INSURER(S) AFFORDING COVERAGE		NAIC #	INSURER A :	Southern-Owners Insurance Company	10190	INSURER B :	Auto-Owners Insurance Company	18988	INSURER C :	FFVA Mutual Insurance Company	10385	INSURER D :	Admiral Insurance Company	24856	INSURER E :			INSURER F :		
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INSURER D :	Admiral Insurance Company	24856																				
INSURER E :																						
INSURER F :																						

COVERAGES

CERTIFICATE NUMBER:

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	☒ COMMERCIAL GENERAL LIABILITY ☐ CLAIMS-MADE ☒ OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: ☒ POLICY ☐ PRO-JECT ☐ LOC OTHER: General Aggregate			78694092	1/27/2026	1/27/2027	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000 MED EXP (Any one person) \$ 10,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000 \$
B	☒ AUTOMOBILE LIABILITY ☒ ANY AUTO OWNED AUTOS ONLY ☐ SCHEDULED AUTOS ☐ HIRED AUTOS ONLY ☐ NON-OWNED AUTOS ONLY			5269410901	1/27/2026	1/27/2027	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
A	☒ UMBRELLA LIAB ☒ OCCUR ☐ EXCESS LIAB ☐ CLAIMS-MADE DED ☒ RETENTION \$ 10,000			5269410902	1/27/2026	1/27/2027	EACH OCCURRENCE \$ 5,000,000 AGGREGATE \$ 5,000,000 \$
C	☒ WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) ☐ Y / N If yes, describe under DESCRIPTION OF OPERATIONS below		N / A	WC840-0021595-2026A	1/27/2026	1/27/2027	PER STATUTE ☐ OTH-ER ☐ E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
D	Pollution Liab			EO000027538-12	1/27/2026	1/27/2027	Occurrence/Aggregate 2,000,000
D	Professional Liabili			EO000027538-12	1/27/2026	1/27/2027	Occurrence/Aggregate 2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Excess - Professional Liability/Pollution Liability - Hamilton Select Insurance - January 27, 2026 to January 27, 2027 - Policy # EOXSHS400874-02 - Each Claim \$3,000,000/Aggregate Limit \$3,000,000 - Retroactive Date: 12/10/1992

Cyber Liability - Spinnaker Insurance Company - April 20, 2025 to April 20, 2026 - Policy # FLY-CB-1XYNHZY00-004 - Policy Aggregate Limit of Insurance \$2,000,000

Work Comp HSL&H - American Longshore Mutual Association Ltd. - March 16, 2025 to March 16, 2026 Policy # ALMA-031524 - Bodily Injury by Accident \$1,000,000 Each Accident - Bodily Injury by Disease \$1,000,000 Annual Aggregate /\$1,000,000 Each Employee

CERTIFICATE HOLDER

CANCELLATION

	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE 

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WATER ELEVATION MONITORING SERVICES – ANNUAL CONTRACT

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SECTION 11

MINORITY BUSINESS

Section XI — Minority Business

Charlotte County RFP No. 20260423, Water Elevation Monitoring Services, Annual Contract

Part XI of the Consultant Evaluation Form considers the firm's status as a certified Minority Business Enterprise (MBE), the status of any sub-consultants as certified MBEs, and any non-certified MBE participation proposed on the team. The County weighs both the prime's status and that of any sub-contractors or sub-consultants within its evaluation, and the response below is provided so the County can apply this criterion with complete and accurate information.

XI.A EGS and Team MBE Status

EGS is no longer a certified Minority Business Enterprise, and no certified MBE sub-consultants are proposed on this team. EGS was a FDOT certified Disadvantaged Business Enterprise (DBE) in 2025, prior to the Supreme Court ruling in October 2025 that disbanded the program. Following that ruling, EGS lost its DBE designation. EGS reports this status accurately and makes no claim to MBE participation credit on this contract. The status of EGS and of each proposed sub-consultant is stated on the Proposal Submittal Signature Form so the County can verify the representation directly against the firms' certifications.

EGS believes the County is best served by a transparent and correct answer rather than by overstating or implying a certification the team does not hold. The team proposed for this contract was assembled specifically to match the technical demands of a storm-resilient, county-wide water elevation monitoring network, and each firm was selected for the distinct capability it brings: equipment supply and platform support from Fondriest; Florida-licensed surveying and structural sealing from WGI; coastal engineering from INTERA and Taylor Engineering; stormwater modeling from Lochner; and water quality testing from Eurofins. The composition of the team reflects the scope of the work the County is procuring.

XI.B Commitment to Fair and Open Participation

Although EGS does not propose MBE participation credit on this contract, the firm is committed to equal opportunity in its hiring and contracting and complies with applicable equal-employment-opportunity requirements. EGS believes that a fair, open, and merit-based approach to staffing and subcontracting produces the best outcomes for its public-agency clients, and it applies that approach consistently across its Florida contracts.

Over the multi-year term of an annual contract, individual task assignments, equipment procurement, field support, and incidental services may create opportunities for additional local and small-business participation that were not part of the core proposed team. EGS is willing to work with the County's purchasing and supplier-diversity staff to identify qualified local and minority-owned firms for appropriate elements of the work as the network is built out and operated, consistent with the County's goals and the technical requirements of each task. EGS will not, however, propose participation it cannot substantiate, and it will document any such participation accurately as it occurs.

EGS will keep its MBE representation current for the life of the contract and will notify the County of any change in the certification status of the prime or any sub-consultant. EGS's intent on this criterion, as throughout this proposal, is to provide Charlotte County with accurate, verifiable information on which to base its evaluation and its award decision.

CHARLOTTE COUNTY

PURCHASING DIVISON

18500 Murdock Circle, Suite 344
Port Charlotte, Florida 33948



WATER ELEVATION MONITORING SERVICES – ANNUAL CONTRACT

RFP No.: 2260423

June 3, 2026

SECTION 12

FORMS

PART IV - SUBMITTAL FORMS
PROPOSAL SUBMITTAL SIGNATURE FORM

1.	Project Team Name and Title	Years experience	City of office individual will work out of for this project	City individual's office is normally located	City of individual's residence						
	Matthew R. Landschoot, P.E. - Project Manager	17	Jacksonville	Jacksonville	Jacksonville						
	Sushrit Kafle - Platform, API & Visualization Lead	3	Tallahassee	Tallahassee	Tallahassee						
	Vaishnavi B. Deshmukh - Tech Support / Training	2	Tallahassee	Tallahassee	Tallahassee						
	Joshua W. Nelson - Field Operations Lead	23	Ft. Myers	Tallahassee	Tallahassee						
	Matthew Foti, Ph.D. (Eurofins) - President	30	Unknown	Unknown	Unknown						
	Steven J. Fondriest (Fondriest) - Equipment Supply	27	Fairborn, OH	Fairborn, OH	Fairborn, OH						
	Mark Gosselin (Intera) - Coastal Engineering	36	Gainesville	Gainesville	Gainesville						
	David Tyler, P.E. (Lochner) - Drainage Engineering	21	Tampa	Tampa	Tampa						
	Allen Quickel, PSM (WGI) - Surveying	27	Winter Garden	Winter Garden	Winter Garden						
2.	Magnitude of Company Operations										
	A) Total professional services fees received within last 24 months:			\$ 22,789,000.00							
	B) Number of similar projects started within last 24 months:			10+							
	C) Largest single project to date:			\$ >\$2,000,000 (Geo Investigation)							
3.	Magnitude of Charlotte County Projects										
	A) Number of current or scheduled County Projects			None At This Time							
	B) Payments received from the County over the past 24 months (based upon executed contracts with the County).			\$ 0.00							
4.	Sub-Consultant(s) (if applicable)	Location	% of Work to be Provided	Services to be Provided							
	Eurofins	Multiple (FL)	On-Call	Water Quality Testing							
	Fondriest	Ohio	Varies	Equipment Supplier (Sensors, Ect)							
	Intera / Taylor Engineering	Gainesville / Jacksonville	On-Call	Coastal Engineering Services							
	Lochner	Multiple (FL)	On-Call	Drainage Engineering Services							
	WGI	Multiple (FL)	5% (Estimate)	Surveying / Structural Design Sign/Seal							
5.	Disclosure of interest or involvement: List below all private sector clients with whom you have an active pending contract and who have an interest within the areas affected by this project. Also, include any properties or interests held by your firm, or officers of your firm, within the areas affected by this project.										
	Firm N/A	Address									
	Phone #	Contact Name									
	Start Date	Ending Date									
	Project Name/Description EGS Primarily Works Only For Federal, State, and Local Government, No Conflict Of Interest Areas Of Concern										

NAME OF FIRM Environmental and Geotechnical Specialists, Inc. (EGS)
(This form must be completed and returned)

Yes	No	x
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Comments or Additional Information:

RFP No. 20260423

DRUG FREE WORKPLACE FORM

Environmental and Geotechnical
Specialists, Inc. (EGS)

The undersigned vendor in accordance with Florida Statute 287.087 hereby certifies that Environmental and Geotechnical Specialists, Inc. (EGS)
x does: (name of business)

1. Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.
2. Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.
3. Give each employee engaged in providing the commodities or contractual services that are under bid a copy of the statement specified in subsection (1).
4. In the statement specified in subsection (1), notify the employees that, as a condition of working on the commodities or contractual services that are under bid, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of Chapter 893 or of any controlled substance law of the United States or any state, for a violation occurring in the workplace no later than five (5) days after such conviction.
5. Impose a sanction on or require the satisfactory participation in a drug abuse assistance or rehabilitation program if such is available in the employee's community, by any employee who is so convicted.
6. Make a good faith effort to continue to maintain a drug-free workplace through implementation of this section.

As the person authorized to sign the statement, I certify that this firm complies fully with the above requirements.



Proposer's Signature

Thomas H. Hayden - President 06/03/26

Date

NAME OF FIRM Environmental and Geotechnical Specialists, Inc. (EGS)

(This form must be completed & returned)

**HUMAN TRAFFICKING AFFIDAVIT
for Nongovernmental Entities Pursuant To FS. §787.06**

Charlotte County Contract #20260423

The undersigned on behalf of the entity listed below, (the "Nongovernmental Entity"), hereby attests under penalty of perjury as follows:

1. I am over the age of 18 and I have personal knowledge of the matters set forth except as otherwise set forth herein.
2. I am an officer or representative of the Nongovernmental Entity and authorized to provide this affidavit on the Company's behalf.
3. Nongovernmental Entity does not use coercion for labor or services as defined in Section 787.06, Florida Statutes.
4. This declaration is made pursuant to Section 92.525, Florida Statutes. I understand that making a false statement in this declaration may subject me to criminal penalties.

Under penalties of perjury, I declare that I have read the foregoing Human Trafficking Affidavit and that the facts stated in it are true.

Further Affiant sayeth naught.



Signature

Thomas H. Hayden, P.E.

Printed Name

President

Title

Environmental and Geotechnical Specialists, Inc.
Nongovernmental Entity

06/03/26

Date

END OF PART IV

NAME OF FIRM Environmental and Geotechnical Specialists, Inc. (EGS)

(This form must be completed and returned)



PURCHASING DIVISION

Charlotte County Administration Center
18500 Murdock Circle, Suite 344
Port Charlotte, Florida 33948-1094

Phone 941.743.1378
Fax 941.743.1384

TO: PROSPECTIVE PROPOSERS

DATE: May 21, 2026

PROPOSAL DUE DATE: 3:00 p.m. (EST), JUNE 9, 2026

RE: ADDENDUM #1, RFP NO. 20260423, WATER ELEVATION MONITORING SERVICES – ANNUAL CONTRACT

Firms are hereby notified that this addendum shall be made a part of the above-named proposal and contract documents. The following are issued to revise/clarify the proposal and contract documents, and these items shall have the same force and effect as the original proposal and contract documents. Proposals to be submitted on the above-specified date at Purchasing shall conform to the revisions and clarifications as listed herein.

ITEM # 1- QUESTIONS/ANSWERS

Q1: The scope appears to reference both providing monitoring equipment/services and selecting or determining appropriate technologies. Can the County clarify whether they are looking to hire a firm that will provide monitoring equipment/services directly, or a firm to evaluate available technologies and determine the appropriate monitoring vendor?

A1: The County is seeking a Firm to provide the services described in the RFP; that is, to provide equipment, surveying, installation, and maintenance services, as well as facilitate data management to the extent described within the RFP.

Q2: If evaluation of technologies is part of the scope, can the County confirm whether proposing a specific monitoring vendor or technology as part of the team is acceptable, or if respondents are expected to remain independent in their approach?

A2: The selected Firm must supply the monitoring equipment (whether directly or via subcontractor) appropriate to the environmental conditions present at each location, with the limitation that the equipment be radar or ultrasonic/acoustic and meet the requirements listed in section RP-21. Note the RFP explicitly states the Firm must be able to provide both radar and ultrasonic sensors, allowing for the County and Firm to utilize whichever sensor technology is most suitable for each deployment location.

Q3: What is the anticipated budget for this contract?

A3: The budget is \$500,000.

This addendum is binding and is to be considered as if contained within the original proposal documents of RFP No. 20260423. Firms are required to acknowledge receipt of this addendum on their proposal forms.

Alisa L. True for
Kimberly A. Corbett, C.P.M., CPPB
Senior Division Manager - Purchasing

KAC/rm

cc: Professional Services Committee
Clerk
File

Thomas H. Hayden
613124
Acknowledged By: Thomas H. Hayden, P.E.
President - EGS



PURCHASING DIVISION

Charlotte County Administration Center
18500 Murdock Circle, Suite 344
Port Charlotte, Florida 33948-1094

Phone 941.743.1378
Fax 941.743.1384

TO: PROSPECTIVE PROPOSERS

DATE: June 1, 2026

PROPOSAL DUE DATE: 3:00 p.m. (EST), JUNE 9, 2026

RE: ADDENDUM #2, RFP NO. 20260423, WATER ELEVATION MONITORING SERVICES – ANNUAL CONTRACT

Firms are hereby notified that this addendum shall be made a part of the above-named proposal and contract documents. The following are issued to revise/clarify the proposal and contract documents, and these items shall have the same force and effect as the original proposal and contract documents. Proposals to be submitted on the above-specified date at Purchasing shall conform to the revisions and clarifications as listed herein.

ITEM # 1- QUESTIONS/ANSWERS

Q1: The RFP specifies that some stations will need cellular communications, and some will need satellite because they are remote. The cost difference between cellular and satellite can be significant across many stations. Is there an estimated number of stations that are remote enough to require satellite communications?

A1: To our knowledge, none of the proposed stations will **require** satellite communications for day-to-day monitoring. That said, certain locations may be considered high priority for storm event monitoring and thus would benefit from satellite communications capabilities in the event regional cellular communications are interrupted. It is anticipated that the vast majority of the stations will rely exclusively on cellular communications, with a select few coastal monitoring sites utilizing satellite **if such option is available.**

Q2: Is there a future plan to add additional sensors to these stations? Sensors could include meteorological parameters (air temperature, pressure, relative humidity, precipitation, wind velocity), flow sensors, and/or water quality sensors (temperature, pH, dissolved oxygen, turbidity, chlorophyll, blue-green algae, etc.)

A2: There are no immediate plans to add more sensors to these stations, although the desire to do so may arise in the future, as need is determined and financial resources allow. That said, the ability to support multiple other types of sensors is not a baseline requirement for this RFP.

This addendum is binding and is to be considered as if contained within the original proposal documents of RFP No. 20260423. Firms are required to acknowledge receipt of this addendum on their proposal forms.

Alisa True for

Kimberly A. Corbett, C.P.M., CPPB
Senior Division Manager - Purchasing

KAC/rm

cc: Professional Services Committee
Clerk
File

Thomas H. Hayden
613126

Acknowledged By: Thomas H. Hayden, P.E.
President - EGS



PURCHASING DIVISION

Charlotte County Administration Center
18500 Murdock Circle, Suite 344
Port Charlotte, Florida 33948-1094

Phone 941.743.1378

Fax 941.743.1384

TO: PROSPECTIVE PROPOSERS

DATE: June 3, 2026

PROPOSAL DUE DATE: 3:00 p.m. (EST), JUNE 9, 2026

RE: ADDENDUM #3, RFP NO. 20260423, WATER ELEVATION MONITORING SERVICES – ANNUAL CONTRACT

Firms are hereby notified that this addendum shall be made a part of the above-named proposal and contract documents. The following are issued to revise/clarify the proposal and contract documents, and these items shall have the same force and effect as the original proposal and contract documents. Proposals to be submitted on the above-specified date at Purchasing shall conform to the revisions and clarifications as listed herein.

ITEM # 1- QUESTIONS/ANSWERS

Q1: Addendum #1 states that the anticipated budget is \$500,000. Is this amount intended as the total budget over the full contemplated program term, the budget for the initial contract term, an annual budget/appropriation amount, or another structure?

A1: The \$500,000 is for the full five-year duration of the project, so it would include the two optional years.

Q2: RP-19 describes a five-year monitoring network, while RP-02 states that the initial contract term runs from award through September 30, 2029, with two optional one-year renewals. Should proposers price the full five-year contemplated program, the initial term only, or the initial term plus optional renewal years?

A2: There shouldn't be pricing included in the proposals, the RFP submittals received will be evaluated on Firm's qualifications, prices were not requested at this time. Those will be decided/discussed during negotiations with top-ranked firm.

This addendum is binding and is to be considered as if contained within the original proposal documents of RFP No. 20260423. Firms are required to acknowledge receipt of this addendum on their proposal forms.

Kimberly Corbett

Kimberly A. Corbett, C.P.M., CPPB
Senior Division Manager - Purchasing

KAC/rm

cc: Professional Services Committee
Clerk
File

A handwritten signature in blue ink, appearing to read "Tom Hayden", with the date "6/4/26" written below it.

Acknowledged By: Thomas H. Hayden, P.E.
President - EGS

Registered Vendors Notified Listing Board of County Commissioners

20260423

Water Elevation Monitoring Services - Annual Contract

Name	Address	City	ST	Phone	Primary Email *
ESTMA INVESTMENT AND CONSTRUCTION INC	1676 OSPREY BND	Fort Lauderdale	FL	(954) 280-3466	info@estmainc.com
Eurofins Drinking Water and Wastewater Southeast LLC	343 west main st	Leola	PA	(239) 590-0337	katie.strothman@et.eurofinsus.com
EXP	13161 N Cleveland Ave, Suite B-3	NO FORT MYERS	FL	(239) 800-6390	joshua.jackson@exp.com
FiberTite by Seaman Corporation	1000 Venture Blvd	Wooster	OH	(941) 321-2747	ssulzener@seamancorp.com
Florida Aquastore and Utility Construction, Inc	4722 NW Boca Raton Blvd	Boca Raton	FL	(561) 994-2400	brandee@florida-aquastore.com
Florida Engineering LLC DBA Lighting Engineering	4161 Tamiami Trail, Suite 101	Port Charlotte	FL	(941) 391-5980	michaelg@fleng.com
Florida Marine Contracting & Recovery LLC	462 Cicero St. NW	Port Charlotte	FL	(941) 999-7208	floridamarinecontracting@gmail.com
Florida Premier Contractors, LLC	25450 Airport Road	Punta Gorda	FL	(941) 205-1400	admin@fpcbuilds.com
Florida Shells Contracting LLC	2659 Dixon Terrace	Port Charlotte	FL	(941) 441-8348	b.shifflett@flshells.com
Florida Transportation Engineering, Inc.	8250 Pascal Dr	Punta Gorda	FL	(800) 639-4851	gary@fteinc.net
FMHC LLC	642 Nimitz blvd	Lehigh Acres	FL	(239) 233-6976	florida@fmhcsolutions.com
Fortiline, Inc. d/b/a Fortiline Waterworks	15850 Dallas Parkway	Dallas	TX	(239) 332-0112	Niels.stone@fortiline.com
Foth Infrastructure and Environment, LLC	2121 Innovation Court, Suite 100	De Pere	WI	(920) 497-2500	mike.ethner@foth.com
Freese and Nichols, Inc.	1000 North Ashley Drive	Tampa	FL	(813) 710-9319	samantha.tedrow@freese.com
Gallagher Bassett Technical Services	4350 W. Cypress St.	Tampa	FL	(813) 287-2824	GBTS.Marketing@gbtpa.com
GeoPoint Surveying	411 Commercial Court, Suite B	Venice	FL	(813) 248-8888	amilav@geopointsurvey.com
George F. Young, Inc.	299 Dr. Martin Luther King Jr. St. N	Saint Petersburg	FL	(727) 822-4317	aadeyemi@georgefyoung.com
Geosyntec Consultants	777 Yamato Road	Boca Raton	FL	(678) 202-9500	Bids-Southern@geosyntec.com
Geosyntec Consultants, Inc.	12802 Tampa Oaks Boulevard	TampaT	FL	(813) 558-0990	mrogoff@geosyntec.com
Geromel Construction LLC	6201 VINELAND RESORT WAY UNIT 407	Orlando	FL	(608) 695-1020	geromel@webcompartilhado.com
Giffels-Webster Engineers, Inc.	900 Pine Street	Englewood	FL	(941) 475-7981	jcole@gwefl.com
Gilson Call Center Services	1401 E Broward Boulevard	Fort Lauderdale	FL	(888) 252-2338	matt@gilsonsoftware.com

Commodity Codes: 92500,92597,92600,92666,92685,92693,96800,96891,98900,98991

* All email addresses listed on the Vendor Registration have been notified.

Registered Vendors Notified Listing Board of County Commissioners

20260423

Water Elevation Monitoring Services - Annual Contract

Name	Address	City	ST	Phone	Primary Email *
Trunkett Law Firm	2271 McGregor Blvd. Suite 300	Fort Myers	FL	(239) 790-4529	jtrunkett@trunkettlaw.com
Tyson's underground services LLC	711 O'Hara Dr	Arcadia	FL	(863) 444-5195	mike@tyson'sundergroundservices.com
U.S. Water Services Corporation	4939 Cross Bayou Boulevard	New Port Richey	FL	(727) 848-8292	ccrego@uswatercorp.net
Universal Engineering Sciences	3532 Maggie Boulevard	Orlando	FL	(407) 423-0504	bmeikle@universallengeneering.com
UNIVERSAL FIDELITY LP	1904 W Grandparkway N	Katy	TX	(281) 647-4100	JESSICA.HEARN@UFLP.COM
US Commercial Diving	500 NW 91st ST	Miami	FL	(231) 631-6611	uscommercialdiving@gmail.com
US Home Solutions	2854 Johnson Ferry Rd	Marietta	GA	(833) 696-7275	info@ushomessolutions.com
USA Services of Florida	448 Spring Hammock Ct	Longwood	FL	(407) 339-1800	bids@sweepingcorp.com
V&A Consulting Engineers, Inc.	8600 Hidden River Parkway, Suite 550	Tampa	FL	(813) 977-6005	southeastbd@vaengineering.com
Vanasse Hangen Brustlin, Inc.	301 North Cattlemen Road	Sarasota	FL	(813) 327-5424	cdailey@vnhb.com
Veith Engineering & Business Solutions	2201 Cantu Court	Sarasota	FL	(941) 374-3422	bveith@veithsolutions.com
Veith Engineering & Business Solutions	2201 Cantu Ct	Sarasota	FL	(941) 374-3422	bveith@veithsolutions.com
Veteran Distribution and supply	6215 27th St E	Ellenton	FL	(702) 355-5979	sales@vdsupply.com
Vision Built Group, LLLP	10735 Wicker Park Place	Palmetto	FL	(717) 672-1589	robert@visionbuiltgroup.com
VoltAir Inc.	1211 N. Westshore Blvd.	Tampa	FL	(813) 867-4899	jdavis@voltairinc.com
Water Science Associates, Inc.	13620 Metropolis Ave #1110	Fort Myers	FL	(239) 204-5301	rochelle.vail@apexcos.com
Waterborne Environmental, Inc.	893-C Harrison Street SE	Leesburg	VA	(703) 777-0005	gerigm@waterborne-env.com
WB Williamson Bros Inc.	2944 South St	Fort Myers	FL	(256) 349-1709	george@wbwilliamson.com
Weiler Engineering Corporation	201 W. Marion Ave, Suite 1306	Punta Gorda	FL	(941) 505-1700	weiler7@mac.com
west coast mowing	5955 Phorus Rd	Venice	FL	(941) 809-3638	wcmowing@yahoo.com
Weston & Sampson Engineers, Inc.	4210 Metro Parkway	Fort Myers	FL	(239) 437-4601	trujillo.maryann@wseinc.com
WGI, Inc.	6310 Techster Blvd	Fort Myers	FL	(561) 687-2220	sima.narcus@wginc.com
Wharton-Smith, Inc.	2525 Bobcat Village Center Rd.	North Port	FL	(813) 288-0068	bbitus@whartonsmith.com
Willcoe LLC / DTC Inc	1515 Ringling Blvd	Sarasota	FL	(941) 623-2370	Robert.Klecha@teamdtc.com
Woodard & Curran	210 S. Florida Ave, Suite 220	Lakeland	FL	(800) 426-4262	amiller@woodardcurran.com
Woodhouse Partnership North America Ltd.	506 Lee Street	West Point	VA	(804) 426-5595	norman.haggie@twpl.com

Commodity 92500,92597,92600,92666,92685,92693,96800,96891,98900,98991
Codes:

* All email addresses listed on the Vendor Registration have been notified.

Tom Hayden

From: bcc-Purchasing@charlottecountyfl.gov
Sent: Wednesday, May 20, 2026 10:32 AM
To: Stephanie Dion; Tom Hayden; Brian Ranallo; Tom Hayden
Subject: Vendor Registration Complete



Charlotte County Purchasing Division
18500 Murdock Circle, Suite 344
Port Charlotte, FL 33948
941-743-1378

Date: 5/20/2026

Primary Contact: Stephanie Dion

Company Name: Environmental and Geotechnical Specialists, Inc.

You are receiving this notification because your email address was entered in the Charlotte County Vendor Registration as a contact for Environmental and Geotechnical Specialists, Inc.. Please be aware that you will receive all notifications for Charlotte County Bids On-line for the NIGP codes entered on the registration.

Please check with your application submitter for the registration password for your company.
All contact emails may access the registration when combined with the password entered.

Application Submitter: Stephanie Kay Dion

Tom Hayden

From: bcc-Purchasing@charlottecountyfl.gov
Sent: Thursday, May 21, 2026 2:45 PM
To: Liz Fondriest; Paul Nieberding; Katelyn Kubasky
Subject: Vendor Registration Complete

Charlotte County Purchasing Division
18500 Murdock Circle, Suite 344
Port Charlotte, FL 33948
941-743-1378



Date: 5/21/2026

Primary Contact: Liz Fondriest

Company Name: Fondriest Environmental, Inc.

You are receiving this notification because your email address was entered in the Charlotte County Vendor Registration as a contact for Fondriest Environmental, Inc.. Please be aware that you will receive all notifications for Charlotte County Bids On-line for the NIGP codes entered on the registration.

Please check with your application submitter for the registration password for your company.

All contact emails may access the registration when combined with the password entered.

Application Submitter: Elizabeth Fondriest

Submitter's email: Liz@fondriest.com

Tom Hayden

From: bcc-Purchasing@charlottecountyfl.gov
Sent: Friday, May 22, 2026 10:39 AM
To: Mark Gosselin; Mike Krecic
Subject: Vendor Registration Complete

This sender is trusted.



Charlotte County Purchasing Division
18500 Murdock Circle, Suite 344
Port Charlotte, FL 33948
941-743-1378

Date: 5/22/2026

Primary Contact: Mark Gosselin

Company Name: INTERA Incorporated

You are receiving this notification because your email address was entered in the Charlotte County Vendor Registration as a contact for INTERA Incorporated. Please be aware that you will receive all notifications for Charlotte County Bids On-line for the NIGP codes entered on the registration.

Please check with your application submitter for the registration password for your company.
All contact emails may access the registration when combined with the password entered.

Hodges, Jennifer

Subject: FW: Vendor Registration Complete

From: bcc-Purchasing@charlottecountyfl.gov <bcc-Purchasing@charlottecountyfl.gov>

Sent: Tuesday, May 26, 2026 11:05 AM

To: Simmons, Scott <ssimmons@hwlochner.com>; Hodges, Jennifer <jhodges@hwlochner.com>; Benedico, Nick <nbenedico@hwlochner.com>; Yates, Michelle <michelle.yates@hwlochner.com>

Subject: Vendor Registration Complete

Charlotte County Purchasing Division

18500 Murdock Circle, Suite 344
Port Charlotte, FL 33948
941-743-1378



Date: 5/26/2026

Primary Contact: Scott Simmons

Company Name: H.W. Lochner, Inc.

You are receiving this notification because your email address was entered in the Charlotte County Vendor Registration as a contact for H.W. Lochner, Inc.. Please be aware that you will receive all notifications for Charlotte County Bids On-line for the NIGP codes entered on the registration.

Please check with your application submitter for the registration password for your company.

All contact emails may access the registration when combined with the password entered.

Application Submitter: Jennifer Hodges

Submitter's email: jhodges@hwlochner.com

Regards,

From: bcc-Purchasing@charlottecountyfl.gov <bcc-Purchasing@charlottecountyfl.gov>

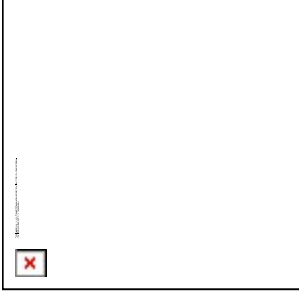
Sent: Tuesday, May 19, 2026 12:59 PM

To: Jenn Calabro <JCalabro@taylorengineering.com>; Taylor Marketing <marketing@taylorengineering.com>; Michael DelCharco <mdelcharco@taylorengineering.com>

Subject: Vendor Registration Complete

Charlotte County Purchasing Division

18500 Murdock Circle, Suite 344
Port Charlotte, FL 33948
941-743-1378



Date: 5/19/2026

Primary Contact: Jennifer Calabro

Company Name: Taylor Engineering, Inc.

You are receiving this notification because your email address was entered in the Charlotte County Vendor Registration as a contact for Taylor Engineering, Inc.. Please be aware that you will receive all notifications for Charlotte County Bids On-line for the NIGP codes entered on the registration.

Please check with your application submitter for the registration password for your company.
All contact emails may access the registration when combined with the password entered.