



Engineering & Consulting, Inc.

**RESPONSE TO REQUEST FOR PROPOSALS
RFP #20-171
ANNUAL ENVIRONMENTAL CONSULTING SERVICES**

PREPARED FOR:
ALACHUA COUNTY PURCHASING DIVISION
THIRD FLOOR
COUNTY ADMINISTRATION BUILDING
12 SE 1st STREET GAINESVILLE, FLORIDA 32601-6983

April 24, 2019



Engineering & Consulting, Inc.

April 24, 2019

Alachua County Purchasing Division, Third Floor
County Administration Building
12 SE 1st Street
Gainesville, Florida 32601-6983

Subject: Response to Request for Proposal
RFP #20-171; ANNUAL ENVIRONMENTAL CONSULTING SERVICES
Alachua County, Florida
GSE Proposal No. 2019-216
Letter of Interest

GSE Engineering & Consulting, Inc. (GSE) is pleased to submit this letter of interest and associated response to the Alachua County Request for Proposal RFP #20-171 to provide environmental consulting services.

GSE is an Alachua County Certified Small Business Enterprise (SBE) providing geotechnical, structural, and environmental engineering and science services; as well as construction material testing and inspection services. The company was incorporated in 2007. Our office is located at 5590 SW 64th Street in Gainesville, Alachua County, Florida. The company has 21 full and 6 part time employees. GSE is fully vested in and committed to the Alachua County community.

GSE has been providing environmental services to Alachua County through the current Environmental Consulting Services contract. As a result, we have demonstrated and proven experience serving the County in this capacity. The assembled GSE Team for this contract has the required experience and qualifications to continue to effectively and consistently respond to all assignments, delivering services in a technically sound, cost conscious and timely manner.

GSE appreciates the opportunity to present our qualifications to you and respectfully requests that you select GSE for this contract. Please contact us should you have any questions or need additional information related to our qualifications.

Sincerely,

GSE Engineering & Consulting, Inc.

A handwritten signature in blue ink, appearing to read "Kenneth L. Hill".

Kenneth L. Hill, P.E.
Principal Engineer/President
Alternate Contract Manager

A handwritten signature in blue ink, appearing to read "Joakim (Jay) B. Nordqvist".

Joakim (Jay) B. Nordqvist, P.E.
Principal Engineer/CEO
Contract Manager

KLH/JBN:ldj

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Distribution: Addressee (1); File (1)

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1.0 PROJECT UNDERSTANDING AND APPROACH

1.1 Understanding of Scope and Objectives:

The Scope of Services is described in Section 3.0 of RFP #16-171 (RFP). Alachua County will retain Consultant(s) to provide comprehensive environmental consulting, environmental planning, engineering or geohydrological support services on a task assignment basis to support the Alachua County Environmental Protection Department (ACEPD); and assist with Alachua County regulatory, environmental planning, land conservation, environmental monitoring programs and special projects.

This RFP response intends to demonstrate the breadth and depth of experience, knowledge, expertise, and resources that the GSE Team delivers. The GSE Team represents and exemplifies some of the finest Alachua County based professional community in the required disciplines. As an Alachua County Certified SBE to complement our expertise, GSE has developed and utilizes a strong widespread network of external environmental consultants with specialized expertise, experience, and resources. Through GSE's strong management approach, we will offer Alachua County effective and timely access to all of the resources presented herein, which may be required under this continuing services contract.

The GSE Team Project Approach simply stated is to exceed County's expectations by delivering all requested services meeting the technical challenges and providing proven and/or innovative solutions in a timely and cost effective manner. To accomplish this goal, strong project management with quality assurance and control, combined with readily available qualified resources and equipment, is required. Our project understanding and approach is outlined below.

As described in the RFP, the County may require air quality monitoring, air pollution control technologies, water quality monitoring and wastewater treatment technologies, stormwater management, Phase I and Phase 2 environmental site assessments, indoor air quality assessments, industrial hygiene studies, asbestos abatement consulting, ordinance and regulation development, land development regulations, natural resources assessment or surveying, wetland delineation, contamination assessment or remediation, monitoring, modeling and environmental sampling and analysis. The services Specific examples of work, which may be required, were included in the RFP and are incorporated herein by reference (Sections 3.2.1 through 3.2.23).

As required for individual assignments, reports will be prepared by or under the direction of a Florida registered professional engineer or geologist and/or qualified scientist, engineer, or environmental planner (as appropriate) with relevant experience.

The scope of this contract incorporates a broad range of environmental services which require technically competent, experienced, and proficient individuals to respond to individual task assignments in a timely cost effective manner. As an Alachua County Certified Small Business Enterprise (SBE), GSE consistently identifies, assembles, and depends on the most technically competent team to meet client demands, needs, and expectations. GSE routinely works with other firms with specialized expertise, and thereby consistently retains the most qualified individuals with local knowledge to complete individual assignments. We do not assign individuals to projects because in-house personnel are "available", but rather assign staff because they bring the required expertise to the project. As will be demonstrated through this proposal, GSE's team management plan will effectively complete assignments under this Contract.

1.2 Workload Management:

GSE effectively manages and executes a large number of projects at any given time, varying in size and scope. We typically have 15 to 30 on-going active open projects, with reserve capacity to increase that work load at any given time without undue stress or strain to our in-house staff or subconsultants. Most active projects fall within normal work flow schedule and procedures, while a smaller percentage fall outside the typical work flow due to various factors, including but not limited to, expedited schedule, emergency response, specialized testing, equipment, or resources. We anticipate that the majority if Alachua County assignments will fall under “normal work flow” with others needing to be addressed on a more immediate or emergency basis. Our Contract Management Plan accounts for this ebb in the workflow.

1.3 Contract Management and Work/Project Plan:

Individual project scope of services are developed and tailored to meet project specific goals while maintaining high ethical standards and quality. Being sensitive to schedule and budget constraints, alternative and/or preliminary scopes may in some cases be appropriate and preferred to control initial costs as project viability is evaluated. Limitations (if any) and implications of choices related to individual scopes are discussed, evaluated, and understood by the stakeholders at the onset of projects.

While remaining project execution process oriented, it is our understanding and consideration of the “big picture” combined with Alachua County needs, concerns, and expectations that differentiate us from many other consulting firms. Our extensive experience and ability to effectively manage and execute a broad range of individual scopes has demonstrated and proven that a “staged” approach to work order completion can at times provide the client not only with a better end result, but can also lead to a more cost effective resolution and product.

GSE’s Contract Management Plan provides for open and effective communication between all stakeholders, ensuring a cohesive understanding of project end goals and required operations between all in-house staff, subconsultants, and the County. As needed, GSE will be available on a 24 hour/7 days per week/365 days a year basis.

As Contract Manager (CM), Mr. Joakim (Jay) B. Nordqvist, P.E., will be the **direct point-of-contact** for any and all assignments and work orders. In Mr. Nordqvist’s absence (i.e. personal paid time off), Mr. Kenneth L. Hill, P.E. will assume Mr. Nordqvist’s role as the alternate CM. Both Messrs. Nordqvist and Hill each have 35+ years of contract management experience with a philosophy and appreciation for open and direct internal and external communication, and thereby meeting and in many cases exceeding client expectations.

Mr. Nordqvist has full authority over the GSE team to ensure necessary and qualified resources are made available and assigned under this contract. Mr. Nordqvist is accountable and responsible for meeting Contract metrics including individual task assignment goals, timelines, and costs. As the contract manager for the current Annual Environmental Consulting Services contract, Mr. Nordqvist has direct and proven experience to effectively manage this contract. Mr. Nordqvist has also managed and provided leadership for similar contracts.

Mr. Nordqvist will participate in meeting as needed with GSE staff and subconsultant representatives to review progress on individual assignments. Mr. Nordqvist will be available for consultation with the Alachua County Project Manager (ACPM) as needed to monitor and discuss Contract performance, new assignments, current and/or future projects, and promote overall contract management continuity.

Project priority management and adjustment occur as “emergency” or “expedited” client needs arise, or unexpected field conditions are encountered. Resource allocation and re-allocation is routinely conducted as part of the active work load, and is typical of the consulting industry sector as a whole. Any re-allocation or adjustments made are implemented in order to maintain, accelerate, or improve project execution and avoid costly delays to project schedule and or budget.

For individual task assignments, Mr. Nordqvist serves as the Alachua County point of contact and is responsible for scope development, project management, and communication with Alachua County, GSE staff, and subconsultants. Mr. Nordqvist will assign and manage GSE Team resources to develop the task assignment scope, timelines, and costs within agreed to timeframes. The Alachua County Work Order (Task Assignment) and Work Order Cost Spreadsheet will be developed, completed and transmitted for County review and approval. All input and special requests by the ACPM related to personnel assignments and equipment is considered and incorporated into this process.

Upon approval of the Task Assignments, Mr. Nordqvist will identify, assemble, and assign the resources to complete the project consistent with the required scope, cost, and timeframe.

Subconsultant staff assignments will be experience, qualification, knowledge based to assure all Alachua County requirements, expectations, and schedules are met. The GSE point of contact for each subconsultant is cited in the Consultant’s Qualification and Staff section.

The general sequencing of tasks (i.e. workflow) pertaining to most individually assigned Alachua County projects can be summarized as follows:

- Initial contact and/or assignment of requested scope of services received from Alachua County
- Scope development including identifying necessary and available personnel and equipment (consulting with Alachua County and other stakeholders as needed)
- Development of project timeline and cost
- County authorization to complete the mutually agreed to scope of services
- Project scope implementation (including but not limited to allocation of necessary resources, data collection, investigation, and testing)
- Review and evaluation of data (including communication with the ACPM or other stakeholders as desired or required)
- Final deliverable preparation
- Draft deliverable review by ACPM (if desired); incorporating and addressing any comments into the final deliverable
- Completion and submittal of final deliverable to Alachua County
- Preparation and submittal of a final invoice

Individual and alternate approaches to various assignments may be appropriate depending on the County needs, desires or requirements. In these cases, the overall project approach will be discussed, understood, and mutually agreed upon with the County as part of the scope and schedule development.

1.4 Quality Assurance & Control Program:

GSE's internal QA/QC program falls under the authority and direction of Mr. Nordqvist, P.E. as the GSE Director of QA/QC. This cornerstone company program ensures all work is conducted in compliance with relevant and applicable industry standards of care, procedures, and requirements pertinent to the particular task/assignment. GSE implements an Internal Project Review Program (IPRP) for all projects. This rigorous process is undertaken from scope development through issuance of final reports/documents/test results.

All projects are assigned a Principal professional with direct comprehensive technical experience in the area of work. The day to day tasks related to projects are typically performed by Staff, Project, and Senior level professionals consistent with the technical nature of the project and level of experience required. The Principal designation is reserved for professionals that have clearly demonstrated through an internal comprehensive review and mentoring process to have superior technical ability and understanding as it relates to the area of practice. All task assignments performed under this contract will undergo Principal review. This review process is incorporated into scope and proposal development, data gathering and evaluation, conclusions, recommendations, and final deliverable stages of assignments.

As data is collected, it is reviewed and evaluated with the project Principal professional to confirm appropriate, accurate, pertinent, and adequate test data is obtained to meet final delivery requirements and expectations. If necessary or appropriate, the scope is refined and adjusted throughout the process to reduce any potential for delay in data collection and project completion. In some cases there may actually be a reduction in data collection resulting in cost savings. In other cases, additional data may be appropriate to further define a condition encountered to allow it to be considered as part of project design, and not become a change order item during construction (typically increasing project cost).

The IPRP's primary focus is to critically and comprehensively review and examine all proposals, letters, correspondence, calculations, assumptions, and project reports prior to client submittal to ensure the most complete, and technically accurate work product delivery. All calculations, data entry, and figure accuracy is confirmed through a second person review process. The item(s) being checked for accuracy are corrected as necessary, and dated and initialed, such that the file confirms this review process. The Principal review confirms this process has occurred and all data (calculations, spread sheets, boring logs, laboratory tests, etc.) is double checked.

The IPRP begins at scope development to ensure existing in-house and other published data is reviewed, considered, and incorporated, to assure appropriate, project specific scope development with careful attention to avoiding duplication of data. Dependent on the "specialization" of task or work order, a round table discussion representing various disciplines may be implemented to form a comprehensive and complete scope to address requirements and expectations. This also allows for opportunities to streamline and more cost effectively complete tasks, as in some cases they can be grouped.

When a deliverable is transmitted to the County, a Principal review will have been completed and the work product represents our proposed finished work product, even if submitted as a “DRAFT” document. “DRAFT” simply means the County (i.e. ACPM) is afforded the opportunity to review our proposed final work product and offer comments, request clarifications, or additional information. After the ACPM has made any suggestions or requests for clarifications, the ACPM review/comments are considered and incorporated into the final deliverable to the County. This iterative and comprehensive review process significantly and measurably reduces data, document, and reporting errors; avoiding “re-writes” and revisions, thereby providing the ability to issue clear, concise, and effective final reports on or ahead of schedule.

Our QA/QC program reaches outside GSE to assure that our subconsultants are maintaining all appropriate certifications and accreditations, and that work is being performed by appropriately accredited/certified experienced personnel. These are maintained in our database creating “trigger dates” for GSE to assure up to date certifications and accreditations are obtained as needed.

Services completed by GSE Team members in areas outside of Mr. Nordqvist’s direct expertise will still be reviewed for consistency related to the proposed scope of services and overall deliverable content and presentation. In the case of subconsultants providing services under this contract, GSE commits to having a qualified and experienced individual meeting the intent of our QA/QC program maintain direct involvement and supervision to ensure the scope services is developed and conducted under their direction. In this way we extend our QA/QC program to the subconsultants. Furthermore, the GSE Team members have been selected specifically due to their professional capability in delivery of service consistent with GSE expectation.

1.5 Project Schedule Maintenance and Acceleration Tools:

Mindful of providing deliverables ahead of schedule, the IPRP is incorporated into our task management system (database) to assure on-time project completion. Our system tracks individual tasks and overall project progress. The database is updated, reviewed, and monitored on a “real-time” basis by the staff, administrative support, and management personnel to maintain and promote a concentrated efficiency of project execution/schedule. The system provides accountability of project participants at all levels and monitoring of individual staff performance.

Project, task completion, and critical path items are database input parameters, with “triggers” to notify the project team of “milestones” and “task status” ahead of deadlines. Project status updates are provided to project stakeholders to maintain and assure communication between all relevant parties. Project specific priorities are dictated by and adjusted to meet County deadlines. We routinely and effectively re-allocate or adjust resources and staff to meet specific project needs, without affecting our ability to proficiently process the existing work load.

GSE routinely utilizes subconsultants to meet project schedules. In this way we maintain access to individuals with specialized experience that may be needed on projects. This often results in schedule efficiency due to the availability of resources and assignment of personnel consistent with individual project requirements.

In some cases on an as needed basis to accelerate project schedules, “place holders” or tentative schedule assignments are made in anticipation of a task assignment being authorized. In this way we have the ability to accelerate and meet project specific schedule. If the task assignment is delayed or determined to not be need, these resources are reassigned into our regularly scheduled work flow. The GSE core project delivery philosophy is to always strive to meet or exceed client schedule expectations.

1.6 Budget/Cost-Savings Tools:

In addition to providing for timely project execution, we recognize the importance in providing for cost-saving concepts to the County without compromising quality. The majority of GSE Team members have an Alachua County office. This predominantly local presence eliminates “out-of-town” related mobilization and per diem expenses.

GSE’s in-house database was developed with the intentions to track project progress as well as collect project specific data. The in-house database has thousands of GSE projects which includes soil and groundwater data, historical information, and soil boring data throughout the County. Through extensive sinkhole investigation work GSE has performed throughout the County, we have assembled a large collection of borings penetrating into the limestone formation. This data and other existing geological information is utilized to anticipate subsurface conditions on sites where environmental sampling is required or the presence of known Karst conditions may have implications to the project. This internal knowledge can in many cases provide for cost savings to the County.

GSE promotes and implements a philosophy of open and effective communication between field personnel, including drillers, scientists, geologists, engineers and PMs. Experience has proven that by identifying potential “areas of concern” before or as they develop in association with frequent and effective communication between all pertinent stakeholders, mitigating actions can be developed and recommended by the PM to avoid insufficient data collection and avoid costly delays to the project schedule. This keeps projects moving forward on or ahead of schedule, while considering and providing for effective cost control.

GSE arguably has the most subsurface related engineering knowledge and experience of any firm in Alachua County. Alachua County has a variety of geological conditions depending on the area of the County in which work is being conducted. In addition to this comprehensive understanding of subsurface conditions being key to appropriately addressing various environmental challenges (for example, karst conditions, clay rich soils, intermediate aquifers, surficial aquifers), this knowledge base can also provide the County with exploration related cost savings by reducing or accurately anticipating the scope of services that are needed and appropriate for individual sites.

2.0 CONSULTANT'S QUALIFICATIONS AND STAFF

2.1 GSE Workload, Background, Organization, and Size:

The GSE team is capable and has a proven track record with Alachua County of completing projects within the time frame required, without hardship on our firm, employees or subconsultants. Most of GSE's current project work load consists of approximately 1 month of backlog. These are individual contract task assignments that will end at that time. GSE is continually seeking additional contract and task assignment opportunities to maintain, and where possible expand, our work load and backlog. GSE has excess labor capacity in that several staff members are employed under a part time "as needed" arrangement, further facilitating our ability to expand our available resources as the need arises.

GSE was incorporated and the office established in Gainesville in 2007. GSE is an Alachua County Certified SBE. GSE is physically located at 5590 SW 64th Street, Suite B. The majority of our subconsultants have a physical presence and personnel in Alachua County.

The GSE team provides consulting and design services for clients including north central Florida area cities, counties, school boards, State of Florida, Federal government, University of Florida, Santa Fe College, the VA Medical Center, UF Health, FDOT, hospitals, land owners, developers, engineers, insurance industry, and attorneys. Additionally, we are an FDEP approved Petroleum Restoration Program Contractor (FDEP Contractor ID# 01384).

Our firm currently employs twenty-one full time and six part time employees in Alachua County. This includes six Florida registered professional engineers (PE), four graduated full time engineers (EI), supported by field technicians, scientists, drafting, and administrative staff.

We certify and can provide immediate documentation to the County that we meet the insurance requirements outlined in Exhibit H.

2.2 GSE Key Personnel:

As stated previously Mr. Nordqvist, principal engineer with GSE is the **primary point of contact** and **Contract Manager**. Mr. Nordqvist has 30+ years of environmental engineering and consulting experience, with 20+ years in Alachua County. Mr. Nordqvist has been involved in a wide range of environmental, site development, and construction related services over the years. This wide range of experience has provided him with a broad comprehensive understanding of environmental conditions and sometimes complex issues in the larger context of existing buildings, construction, and site development.

He has personally been involved with and managed services in most of the categories included in this contract. As a result of this broad experience, as a "seasoned" professional, he brings a working knowledge, perspective, and understanding of the various client issues and opportunities for providing a superior client outcome in these various areas.

His professional consulting area of focus has included Phase I & II ESAs, contamination assessments, remedial action development and implementation, risk based closures, tank closures, SPCC plans, and regulatory compliance. The experience includes formal regulatory closure for petroleum and non-petroleum impacted sites (including landfills, Brownfields, petroleum, and solvent product impacted sites). He has also provided expert witness testimony in depositions and court.

Mr. Nordqvist is intimately familiar with and has a comprehensive understanding of Federal, State and County environmental regulations and requirements. He has established personal relationships with County and State regulatory agencies that have been developed over the years based on mutual professional respect and project interaction. This includes many ACEPD and other Alachua County department personnel.

In addition, to his comprehensive specialized knowledge outlined above, he has a working knowledge of a wide range of other environmental services including indoor air quality, vapor intrusion, asbestos, lead paint, radon, wastewater treatment, septic tanks, natural resource assessments, ambient monitoring, industrial hygiene studies, site evaluation, routine compliance monitoring, wetland delineation, remediation system design/evaluation and technical alternatives evaluation, and regulatory review. Through this experience he has established a network of professional colleagues throughout the State with specialized experience and expertise that provide Mr. Nordqvist with unique and beneficial resources that can directly benefit the County for special projects. Refer to Mr. Nordqvist's resume for additional information and past project experience.

Mr. Kenneth L. Hill, the **Alternate Contract Manager** has direct Alachua County continuing services contract management experience. Mr. Nordqvist and Hill have worked together for 18+ years. Mr. Hill will be available to manage the contract at times when Mr. Nordqvist is on personal leave. This is the current contract management arrangement under our existing environmental continuing services contract with Alachua County. Even during absences, Messrs. Nordqvist and Hill keep in close contact and communicate on important project and contract matters or issues. This relationship, experience, and management approach assures that project assignments move forward seamlessly, efficiently and as agreed.

The GSE contract managing principals are supported by in-house and subconsultant staff. GSE staff is assigned to conduct and manage various aspects of individual assignments consistent with their capabilities, experience, and project requirements.

2.3 Subconsultant Selection and Team Approach:

There are no company boundaries within the GSE Team; only a qualified pool of available resources. The GSE Team includes a large diverse pool of personnel and equipment resources that are assembled for each project considering technical expertise, experience, and availability.

As a small business enterprise, GSE depends on outside resources in many cases. Our professional network allows us the flexibility and ability to target and select the most qualified professionals for individual assignments as these are resources that are available and used on an "as needed" basis. Our team approach provides Alachua County with maximum flexibility and access to the various disciplines with local experience for individual assignments.

The following **subconsultants with local presence and/or experience** are an integral part of the GSE Team to allow us to be responsive to all needs under this contract. *Our subconsultant team is listed in alphabetical order; not in order of perceived relevance to this contract.*

Advanced Environmental Laboratories, Inc. (AEL) – Gainesville, Florida

CHW Professional Consultants, Inc. (CHW) – Alachua, Florida

DRILLPRO, LLC/ dba as Groundwater Protection (GPI) – Orlando, Florida

Environmental Consulting Technology, Inc. (ECT) – Gainesville, Florida

GeoView, Inc. – Largo, Florida

GLE, Inc. (GLE) – Gainesville, Florida

Koogler & Associates, Inc. (K&A) – Gainesville, Florida

Wetland Solutions, Inc. (WSI) – Gainesville, Florida

GSE has established long term working relationships with all but one of our subconsultants (K&A). The GSE team members were selected because of this proven working relationships, shared mutual respect as professionals, past performance, and overall professional standing and reputation in the community. Our subconsultants truly represent and serve as an extension to GSE staff. We have 10 or more years of personal and professional relationships with most of the individuals listed below.

In the case of K&A, their services lines offer unique capability, expertise, and qualifications that could be important to the County on some projects. They come to us through referrals and have been fully vetted to confirm they have the qualifications and past performance to meet the expectations of GSE and Alachua County.

All subconsultants are vetted and rigorously reviewed to confirm their past performance and qualifications, and provide us assurance they meet the GSE philosophy and project delivery expectations. We know and understand that subconsultant performance represents a direct reflection of GSE. Thus, we do not take selection of subconsultants lightly, as we cannot afford unqualified or non-responsive companies to serve in this capacity. Re-evaluation of our existing subconsultant performance and qualifications is a never-ending on-going process to continuously confirm they are meeting the GSE metrics and expectations.

New subconsultants are routinely identified through peer referrals, professional and community associations, and other professional recognition programs. Our selection process is not unique to this Contract alone. If the need to acquire additional resources under this contract is identified, GSE will contact and communicate this need directly with the County, along with the qualifications of the proposed addition to the GSE team for ACPM approval.

As previously stated, GSE routinely reaches out to professionals with specialized unique expertise required by our clients. Due to existing developed relationships and trust with our clients, they often depend on our professional judgement and experience in helping them select the appropriate qualified professional resources to address issues outside our area of expertise. Again, subconsultant performance represents a direct reflection on GSE, which is never taken lightly.

2.4 Subconsultant/Team Qualifications:

The GSE subconsultant/team qualifications and point of contact are summarized below.

Advanced Environmental Laboratories, Inc. (AEL) founded in 1994 has six NELAP certified laboratories in Florida (including one in Alachua County), more than any other company in the State. AEL works for multiple clients including landfill/solid waste, assessment/remediation, wastewater/drinking water, and industrial process control. AEL is one of the largest private labs in the State for drinking water and wastewater analysis. In addition, in Gainesville AEL has a water sampling technician. GSE has worked with AEL for 10+ years.

Mr. Todd Romero will serve as GSEs **point of contact** for AEL. Mr. Romero has 25 years of environmental technical experience including Project Management, Environmental Engineering, Information Technology Services, Business Development, Client Services, and Office Operational Systems. He is supported by additional resources including Frankie Allen and Josh Apple.

CHW Professional Consultants, Inc. (CHW) has been in Alachua County for 30+ years providing professional consulting services for planning, surveying, civil engineering, and construction. They have direct work experience with Alachua County. The scope and content of their project services include a wide variety of services from due diligence, land surveying, site/system analysis, conceptual design, project design, land use and zoning, regulatory agency permitting, construction documents, construction bidding, construction engineering inspections (CEI or construction administration), and as-built certifications. Areas of expertise include, but are not limited to, site planning; site grading; sanitary, potable water; storm piping designs; stormwater management; SWPPP; gas, electric and other utility coordination; impact fee connection change analysis; project facilitation and regulatory representation/advocacy. GSE has worked with CHW since our inception in 2007. In addition, we have long standing professional relationships that pre-date GSE.

Ms. Monique Heathcock, PE will serve as the task manager and the **point of contact** for CHW. Mr. Nordqvist and Ms. Heathcock have a long term established professional relationship, having worked together on multiple Alachua County and other projects for more than 10 years. Ms. Heathcock has 25+ years of engineering experience in the North Central Florida area. Her civil engineering design expertise includes site development, roadways, maintenance of traffic, and utility design and coordination including but not limited to water distribution and wastewater collection.

Additional CHW resources include Mr. Aaron Hickman, PLS and Mr. Craig Brashier, AICP. Mr. Hickman has 8+ years of experience in the land surveying industry in Alachua County. As Director of Surveying his responsibilities that include managing project schedule and budget, field crew scheduling and deployment, performing record research, data analysis, computations, boundary decisions, subdivision layout, and computer aided design and drafting. He is experienced with field work collecting data and setting corners on boundary, topographic and as-built surveys using total stations, electronic data collection devices, and survey quality GPS systems.

Mr. Brashier is certified by the American Institute of Certified Planners and has 17+ years of experience in planning and project management. His breadth of experience ranges from advising clients and local governments on Comprehensive Plan text and map amendments to large-scale planning efforts with extra-jurisdictional and regional impacts. He works with large- and small-scale commercial property owners, local governments, the general public, and stakeholders to promote economic growth through community reinvestment. He has overseen projects throughout North-Central Florida, and has extensive experience working with federal, state, and local agencies, including the State of Florida Department of Economic Opportunity, county and City governments, the Florida Department of Transportation, and the Florida Department of Environmental Protection.

DrillPro, LLC Groundwater Protection, (GPI), was founded in 1986 to provide specialized environmental drilling services to consultants and engineers involved with contamination assessment and clean-up projects. GPI has completed work at well over 15,000 sites throughout the Southeastern United States. This includes underground storage tank sites (UST), industrial hazardous waste sites including 20 Federal Superfund Sites, military installations, due diligence sites and NASA facilities.

Currently, GPI has one office, which is located in Orlando, Florida. Environmental drilling services provided include monitor, recovery, air sparge and vapor extraction well installation and soil sampling/borings using sonic technology (up to 10-inch I.D.), hollow stem auger (up to 10-inch I.D.), mud rotary and direct push methods. GPI operates Diedrich D-120 drill rigs, Diedrich D-50 drill rigs, 6600 Series Geoprobe drills/direct push combination rigs. All GPI personnel meet the OSHA 40 CFR 1910.120 requirements for HAZWOPPER training. This includes initial 40-hour training, 8-hour refresher training, medical monitoring and respirator fit testing

The task manager and the **point of contact** for GPI is Mr. Charles Bucher. Mr. Bucher provides operational oversight and support for GPI. GSE has worked extensively with GPI for 10+ years.

Environmental Consulting & Technology, Inc. (ECT) provides professional services related to air quality; natural resource management and permitting; performance assurance and compliance; site assessment and remediation, and water resources. ECT was founded in 1988 in Gainesville, Florida. ECT has provided field and technical resources to GSE on past projects.

The **point of contact** is Mr. J. Chris Mickler, P.E. Mr. Nordqvist was previously Mr. Mickler's supervisor and professional mentor. They have a professional working relationship approaching 20 years. Even while employed at different firms, they have continuously worked together in a consultant capacity on many projects over the years. Mr. Mickler is supported by additional ECT personnel including Mr. David Flake.

GeoView, Inc. (GeoView) specializes in the provision of non-intrusive geophysical services to the engineering, geological, environmental and construction industries. Over its 17 year history GeoView has performed over 750 geophysical investigations in Alachua County. The investigations have involved the assessment of karst (sinkhole) related geological conditions, environmental site characterization studies, and assessment of infrastructure. GeoView has the ability to provide a local level of support to investigations in Alachua County with offices in St. Petersburg, Orlando and Jacksonville.

The task manager and the **point of contact** for GeoView is Michael J. Wightman, P.G., President, Principal Geophysicist. In addition, Mr. Stephen R. Scruggs, P.G., Senior Geophysicist will support Mr. Wightman. GSE has worked extensively with GeoView having completed hundreds of projects together since our inception in 2007, with personal and professional relationships that pre-date GSE.

GLE Associates, Inc. (GLE) has assisted public agencies to comply with the federal, state and local regulations associated with lead, asbestos, industrial hygiene, indoor air quality, radon and other environmental concerns. Specializing in building-related environmental issues, GLE combines the detailed design and contract document preparation standards of an architecture engineering firm with the knowledge of hazardous material regulations and management typically associated with an environmental consulting firm. Their designs often enable users to continue to function with minimal disruption while remediation and construction activities take place.

Mr. Paul Zak, a certified industrial hygienist (CIH) of GLE will serve as the task manager for providing these services and the **point of contact** for GLE. GSE and Mr. Zak have worked on local projects together over the past 10+ years (including a project assignment under the current Alachua County Environmental Services Contract). Mr. Zak has been involved in the environmental consulting field since 1999. He has a working knowledge of regulations and projects involving industrial hygiene, safety, asbestos, lead, Indoor Air Quality (IAQ), mold, and OSHA compliance. GLE has additional local support personnel to assist Mr. Zak.

Koogler and Associates, Inc. (K&A) is a multidisciplinary environmental consulting firm offering specialty services in the areas of air permitting and compliance support. K&A was established in 1974 and provides professional consulting and engineering services in matters related to air quality management, air pollution control and environmental permitting. The firm provides services throughout the United States, with a principal focus on the southeast.

Dr. John B. Koogler PH.D., P.E., Principal Engineer, will serve as the task manager for providing these services and the **point of contact** for K&A. Dr. Koogler, a respected expert in the field, has been actively involved as a consultant in matters related to air quality since 1964. Highly qualified associates and staff also provide Dr. Koogler with support in all aspects of their environmental permitting programs.

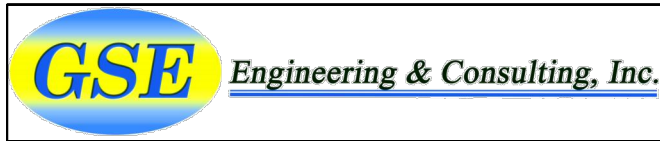
Wetland Solutions, Inc. (WSI) will assist GSE with natural resource related environmental consulting and engineering services, which may include design and implementation of treatment wetlands for managing stormwater and wastewater, aquatic ecology and water quality studies, wetland delineation, stormwater modeling, and environmental sampling and analysis. WSI was established in 2000. As a subconsultant to GSE, WSI recently provided environmental policy related services under the existing Alachua County Environmental Services contract. GSE has been working with WSI over the last 5+ years.

Mr. Christopher H. Keller, M.E., P.E. will serve as the task manager for providing these services and **point of contact** for WSI. Messrs. Keller and Nordqvist have worked together on projects, including the proposed City of Archer wastewater treatment plant, where a wetland recharging basin was considered for sewage treatment. Mr. Keller is an environmental engineer with 20+ years of experience designing treatment wetlands, stormwater management systems, and other water quality improvement projects.

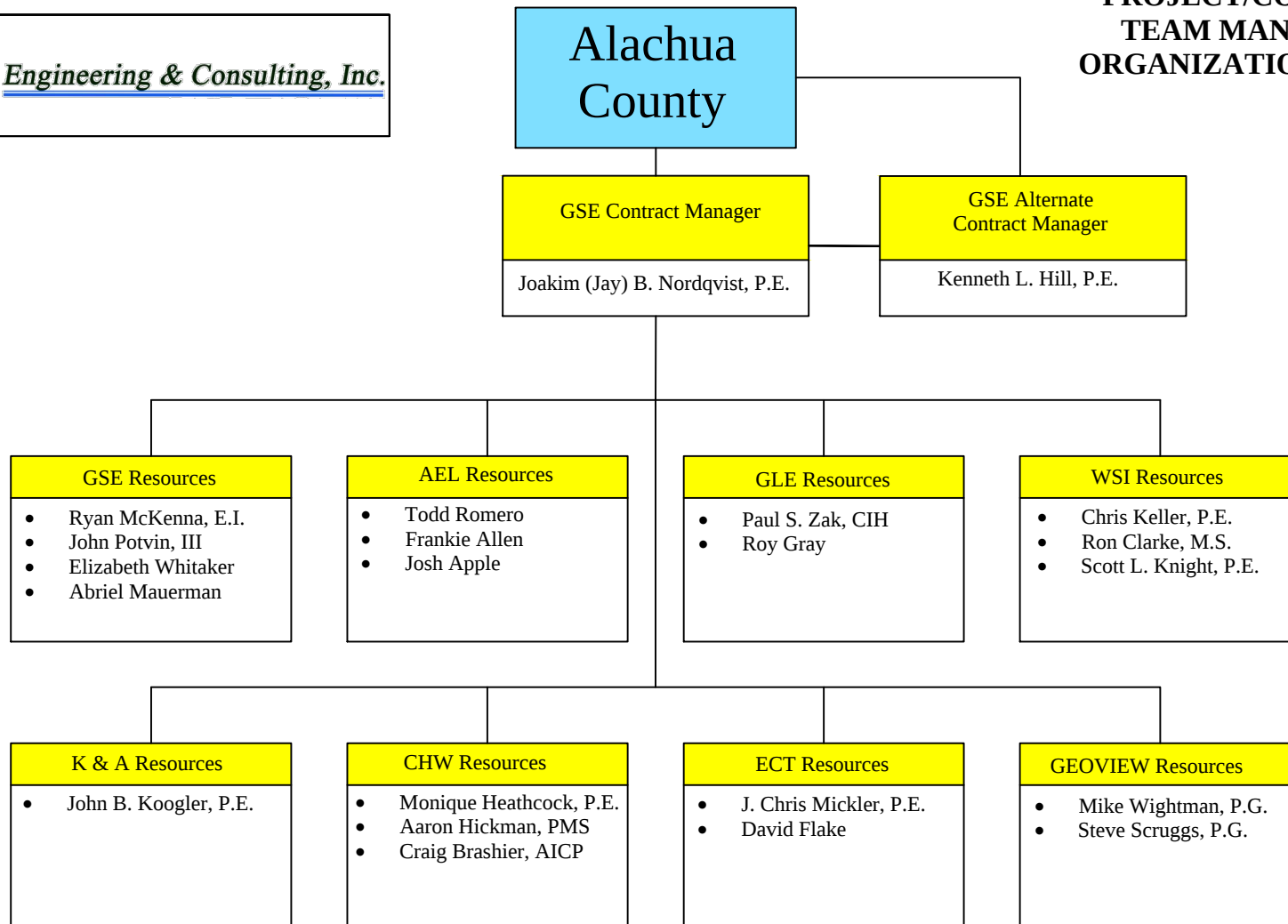
He is supported by Mr. Ronald A. Clarke, M.S. with 19 years of aquatic and wetland experience with expertise in data collection, analysis and management and Mr. Scott Knight, M.E., P.E., Water Resources Engineer with 9 years of experience in watershed modeling, treatment wetland design, ecological monitoring, and stormwater system design, and Robert Knight, Ph.D. with more than 40 years of experience in treatment wetland design, aquatic ecology, environmental monitoring, and other water quality improvement projects.

The brief descriptions above highlight the breadth and depth of technical expertise and capabilities of the GSE Team. GSE and most of the team members have worked with the County on similar continuing services contract and understand the needs and expectations. In addition, GSE has completed multiple assignments for Alachua County serving in a subconsultant capacity to various consultant and engineering firms. GSE has also completed similar project assignments either directly or through other consultants for the City of Gainesville, City of Alachua, Alachua County School Board, and other North Central Florida municipalities.

The following attachments provide the Project/Contract and Team Management Organizational Chart, GSE Team Qualifications Matrix summarizing the GSE Team service lines, and representative GSE Team Project Descriptions of relevant projects.



PROJECT/CONTRACT & TEAM MANAGEMENT ORGANIZATIONAL CHART



- * GSE Engineering & Consulting, Inc. (GSE)
- * Advanced Environmental Laboratories, Inc. (AEL)
- * CHW Professional Consultants (CHW)
- * Environmental Consulting & Technology, Inc. (ECT)
- * GeoView, Inc. (GEOVIEW)
- * GLE Associates, Inc.(GLE)
- * Koogler and Associates, Inc. (K&A)
- * Wetlands Solutions, Inc. (WSI)

GSE TEAM QUALIFICATIONS MATRIX

An "X" indicates that the identified firm provides the noted service																							
Firm	Air Quality Monitoring	Air Pollution Control Technologies	Water Quality Monitoring	Wastewater Treatment Technologies	Phase I ESA	Phase II ESA	Indoor Air Quality Assessment	Industrial Hygiene Studies	Asbestos Abatement Consulting	Ordinance & Regulation Development	Land Development Regulations	Natural Resources Assessment	Natural Resources Surveying	Wetland Delineation and UMAM assesment	Contamination Assessment	Contamination Remediation	Contamination Monitoring	Contamination Modeling	Environmental Sampling/Analysis	Landfill Monitoring	Expert Testimony	Terrestrial Restoration	Hydrological and
*GSE			X	X	X	X					X				X	X	X	X	X	X	X	X	
* AEL																				X	X		
*CHW											X	X										X	X
*CCS											X	X										X	
*GLE						X	X	X	X	X						X	X	X		X		X	
*JEA			X	X	X	X			X	X	X				X	X	X	X	X	X	X	X	X
*K&A	X	X				X	X						X	X								X	
*NRPS													X										
*WSI			X	X									X	X	X					X		X	X

- ❖ *GSE Engineering & Consulting, Inc. (GSE)
- ❖ *Advanced Environmental Laboratories, Inc. (AEL)
- ❖ *Casseaux, Hewett, & Walpole, Inc. (CHW)
- ❖ *Community and Conservation Solutions, LLC. (CCS)
- ❖ *GLE Associates, Inc.(GLE)
- ❖ *Jones Edmunds & Associates, Inc. (JEA)
- ❖ *Koogler and Associates, Inc. (K&A)
- ❖ *Natural Resource Planning Services, Inc. (NRPS)
- ❖ *Wetlands Solutions, Inc. (WSI)



Engineering & Consulting, Inc.

GSE Engineering & Consulting, Inc.
 5590 SW 64th Street, Suite B
 Gainesville, Florida 32608
 (352) 377-3233 Phone ♦ (352) 377-0335 Fax
 www.gseengineering.com



Hull Road Development Area Gainesville, Alachua County, Florida

YEAR COMPLETED PROFESSIONAL SERVICES

2012-On-Going

PROJECT SIZE

+/- 3 Acres

PROJECT OWNER / CONTACT

Confidential

SERVICES PROVIDED

1. Phase I Site Assessment
2. Phase II Site Assessment
3. FDEP Involvement, Review & Approval
4. Solid Waste Management Plan
5. Monitoring Well Installation
6. Groundwater Sampling
7. Waste Removal Observation and Monitoring
8. Health and Safety Plan
9. Waste Characterization
10. Off-Site Waste Disposal
11. Secure Restricted Work Area

BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT

Hull Road was extended west of the University of Florida Campus as part of area site development. GSE was initially retained to conduct Phase I & II ESA services. An unregulated landfill which operated in the 1970's was identified and determined to encroach upon the area of roadway expansion. Site grades required excavation and off-site disposal of solid waste to allow for utility installation. Both geotechnical and environmental conditions were addressed by GSE. GSE prepared a Solid Waste Management plan outlining the procedures to be implemented for handling, staging, characterizing, and disposing of the waste. FDEP Hazardous Waste Program & Permitting Department approved the plan and conducted a site visit during removal activities. Due to the lack of documentation related to the contents with the landfill, a modified Level C PPE was selected with adjustments during site activities. The solid waste was stockpiled and tested to establish if it was a characteristic hazardous waste. Off-site proposal manifested disposal to a permitted facility was then coordinated. A lined trench was installed to provide for a safe work area with no potential for solid waste exposure during utility installation.

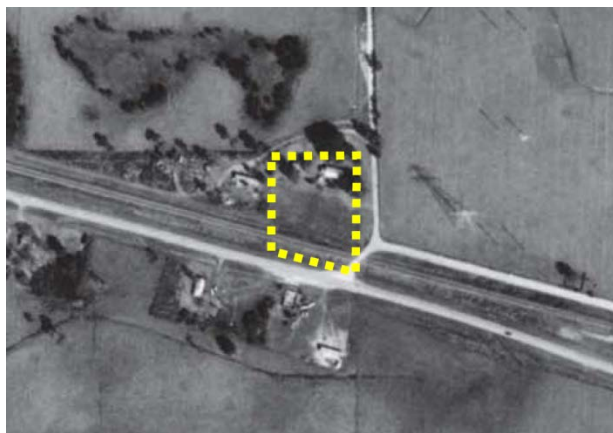
Additional development in the area of the former landfill is planned. GSE is currently characterizing the solid waste extent and associated stormwater management, construction, regulatory and other environmental implications in these areas. Mr. Joakim (Jay) B. Nordqvist, P.E. with GSE is the Engineer of Record for this project.

1) FIRM NAME	2) FIRM LOCATION	3) ROLE
GSE Engineering & Consulting, Inc.	Gainesville, Florida	Phase I&II / Remediation/Regulatory Agency Interaction
CHW	Gainesville, Florida	Roadway and Utility Design
GEOVIEW	Largo, Florida	Geophysical Services
AEL	Gainesville, Florida	Laboratory Services
GPI	Orlando, Florida	Drilling Services
ECT	Gainesville, Florida	Field Support Services



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Commercial Retail – Wildwood

Wildwood, Sumter County, Florida

YEAR COMPLETED PROFESSIONAL SERVICES

On-Going

PROJECT SIZE

1.5 Acres

PROJECT OWNER / CONTACT

Concept Development, Inc.

Mr. Matt Cason

Phone (352) 333-3233

E-mail mcason@conceptcompanies.net

SERVICES PROVIDED

1. Phase I & II Environmental Site Assessment
2. Site Assessment
3. Remediation Program
4. Soil Sampling & Testing
5. Monitoring Well Installation
6. Regulatory Agency Coordination



BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT

During performance of a Phase I ESA an abandoned railroad corridor was identified traversing the site. Railroad corridors represent a potential environmental concern. The rail road ties and historical herbicide application that may have occurred are considered an intended use and prescribed application, and thus not considered a discharge as defined in the ASTM 1527E or Florida law. Although not subject to regulatory enforcement action, in order to confirm that the site is addressed to meet the intent of current regulatory closure requirements if a discharge was present, FDEP was requested to review the site assessment and proposed mitigation plan.

The soil mitigation program addresses environmental exposure risk associated with the presence of detected parameters along the former rail road corridor consistent with Chapter 62-780 FAC criteria. Upon completion of the proposed program FDEP will issue a Site Rehabilitation Completion Order (SRCO) with no further action for the site. The proposed program represent a voluntary measure, as the identified site condition is not interpreted as a discharge as defined under Florida rules or laws. As a result, any actions taken are considered voluntary and not subject to enforcement.

Mr. Joakim (Jay) B. Nordqvist, P.E. with GSE was the Engineer of Record for this project.

1) FIRM NAME	2) FIRM LOCATION	3) ROLE
GSE Engineering & Consulting, Inc.	Gainesville, Florida	Phase I & II ESA, Site Assessment/ Remediation / Closure
CHW	Alachua, Florida	Surveying and Site/Civil Design
AEL	Gainesville, Florida	Analytical Laboratory Testing
GPI	Orlando, Florida	Monitoring Well Installation



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Proposed Commercial Retail – Ulmerton Road Largo, Pinellas County, Florida

YEAR COMPLETED PROFESSIONAL SERVICES

2017

PROJECT SIZE

1.5 Acres

PROJECT OWNER / CONTACT

Concept Development, Inc.

Mr. Matt Cason

Phone (352) 333-3233

E-mail mcasson@conceptcompanies.net

SERVICES PROVIDED

1. Phase I & II Site Assessment
2. Contamination Assessment
3. Remedial Restoration
4. Soil Sampling
5. Monitoring Well Installation
6. Groundwater Sampling
7. Groundwater Modeling
8. Dewatering Permitting



BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT

Initially a Phase I/II ESA confirmed the historical bumper restoration activities (i.e. plating operation) resulted in regulated metals impact to soil and groundwater at concentrations exceeding default State soil and groundwater cleanup target levels (62-777 FAC) for Nickel and Chromium. GSE completed an assessment consistent with Chapter 62-780 FAC Contaminated Site Cleanup Criteria and implemented an interim source soil removal program. The site is in a designated Brownfields area (Chapter 62-785 FAC), so assessment and remediation services were conducted under a Brownfields Site Rehabilitation Agreement (BSRA) with oversight from the FDEP Southwest District.

It was established that the soil impacts were relatively surficial with a shallow groundwater table. A statistical analysis of metal soil concentrations consistent with Chapter 62-780 requirements was undertaken to establish the lateral and vertical soil removal extent. Through soil impact removal and two quarterly groundwater monitoring events a no further action (NFA) with conditions (groundwater restricted use only) was achieved. A Site Rehabilitation Completion Order with Conditions (restricted groundwater use only) was issued allowing the real estate financial transaction and retail redevelopment to move forward. During construction, a modified dewatering permit was required to account for groundwater concentrations of metals exceeding surface water discharge criteria. GSE developed the site specific criteria which were approved by FDEP to allow the contractor to move forward. Mr. Joakim (Jay) B. Nordqvist, P.E. with GSE was the Engineer of Record.

1) FIRM NAME	2) FIRM LOCATION	3) ROLE
GSE Engineering & Consulting, Inc.	Gainesville, Florida	Site Assessment & Remediation
AEL	Gainesville, Florida	Laboratory Analysis
GPI	Orlando, Florida	Monitoring Well Installation
ECT Staff (J. Chris Mickler, P.E.)	Gainesville, Florida	Groundwater Modeling



Engineering & Consulting, Inc.

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N-522 HUB 2 Site

Gainesville, Alachua County, Florida

YEAR COMPLETED PROFESSIONAL SERVICES

2019

PROJECT SIZE

1+ Acre

PROJECT OWNER / CONTACT

ARCO LIVING GROUP

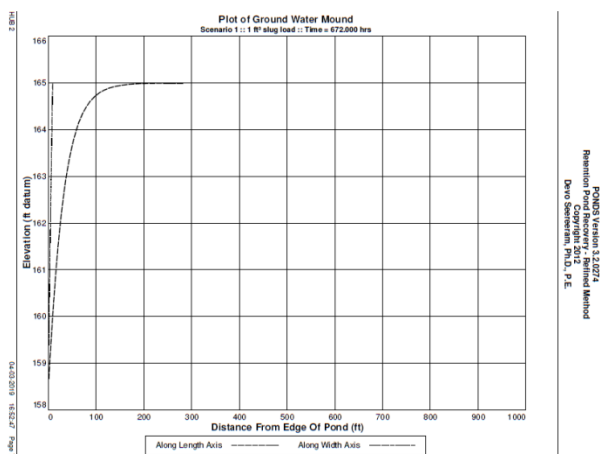
Mr. Randy Baker

Phone: (314)963-0715

E-mail: rbaker@arco1.com

SERVICES PROVIDED

1. Regulatory Information Review
2. Groundwater Modeling
3. Dewatering Evaluation and Consulting



BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT

GSE was requested to determine if proposed dewatering activities will affect groundwater contamination from potential off-site sources including two former petroleum product and two former dry cleaning operations sites. Our services were provided to address FDOT Request for Additional Information (RAI) for the dewatering permit being obtained through the St. Johns Water Management District.

The FDOT and FDEP requested a summary of regulatory information about the potential for sites with documented soil and/or groundwater impact potentially falling within the cone of influence of the proposed dewatering programs. GSE reviewed and summarized regulatory information related to these facilities through the on-line FDEP Information Portal. GSE retained Mr. J. Chris Mickler, P.E. with ECT to model the cone of influence that would result from the planned dewatering activities in the elevator and sanitary sewer installation areas. The proposed dewatering approach included the use of a hydraulic barrier between the dewatering area and potential off-site contamination source. Re-injection of extracted water was proposed. A summary report was provided and submitted with the dewatering application.

Mr. Joakim (Jay) B. Nordqvist, P.E. with GSE was the Engineer of Record for this project.

1) FIRM NAME

GSE Engineering & Consulting, Inc.
 ECT

2) FIRM LOCATION

Gainesville, Florida
 Gainesville, Florida

3) ROLE

Regulatory Review and Reporting
 Groundwater Modeling



Engineering & Consulting, Inc.

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www.gseengineering.com



Dogwood Park

Gainesville, Alachua County, Florida

YEAR COMPLETED PROFESSIONAL SERVICES

2008-2017

PROJECT SIZE

7+ Acres

PROJECT OWNER / CONTACT

Dogwood Acquisition, LLC

Mr. Oscar Rodriguez

Phone (352) 333-3233

E-mail oscars@atlantic.net



SERVICES PROVIDED

1. Site Assessment
2. Monitoring Well Installation
3. Groundwater Sampling
4. GPR and ERI Geophysical Testing
5. Stormwater Mounding Modeling
6. Slug Testing / Aquifer Characterization
7. Contaminant Transport Modeling
8. Extent of Landfill Determination
9. Formal FDEP Closure with Conditions
10. Preliminary Site Plan Development & Approval

BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT

The Dogwood Park site conditions were evaluated to provide for formal closure through the the FDEP. GSE prepared a Site Assessment Report (SAR) and Addendum (SARA) for the FDEP Waste Cleanup Section - Northeast District which determined the extent of groundwater impacts. The landfill footprint was confirmed through geophysical characterization, borings, and test pits. Considering the findings of the SAR and SARA, FDEP approved a No Further Action with Conditions closure for the subject site. FDEP subsequently granted a Conditional Site Rehabilitation Completion Order (CSRCO). Mr. Joakim (Jay) B. Nordqvist, P.E. with GSE was the Engineer of Record for this project.

Subsequent to the SRCO, GSE and CHW were retained to assist in proposed site development. Preliminary site plan development and plan approval was obtained from Alachua County. This included proposed management and environmental implications of solid waste as part of the proposed building and site improvements during and post construction.

1) FIRM NAME	2) FIRM LOCATION	3) ROLE
GSE Engineering & Consulting, Inc.	Gainesville, Florida	Site Assessment / Conditional Closure / Site Plan Development Technical Support
GEOVIEW	Largo, Florida	Geophysical Services
ECT Employee (Mr. J. Chris Micler)	Gainesville, Florida	Groundwater Modeling
CHW	Gainesville, Florida	Site Development Planning and Approval
GPI	Orlando, Florida	Monitoring Well Installation
AEL Laboratories	Gainesville, Florida	Laboratory Analytical Testing



Engineering & Consulting, Inc.

GSE Engineering & Consulting, Inc.
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www.gseengineering.com



Commercial Retail – Gainesville Gainesville, Alachua County, Florida

YEAR COMPLETED PROFESSIONAL SERVICES

2013

PROJECT SIZE

1.5 Acres

PROJECT OWNER / CONTACT

Concept Development, Inc.

Mr. Matt Cason

Phone (352) 333-3233

E-mail mcason@conceptcompanies.net

SERVICES PROVIDED

1. Phase I Site Assessment
2. Phase II Site Assessment
3. Contamination Assessment
4. Remediation
5. Soil Sampling
6. Monitoring Well Installation
7. Groundwater Sampling

BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT

During performance of a Phase I Site Assessment at the former Brasington Cadillac-Oldsmobile dealership, GSE documented several recognized environmental conditions including on-site USTs and in-ground hydraulic lifts. Follow up Phase II services identified minor petroleum impacts to soil in the vicinity of the hydraulic lifts.

GSE provided a sampling plan to the Alachua County Environmental Protection Department (ACEPD) for approval prior to performing lift closure activities. We coordinated removal of the hydraulic lifts and lift-closure testing and assessment of the impacted soils with Gus Olmos, P.E. Hazardous Materials Program Manager for ACEPD. Following excavation of impacted soils and confirmatory soil and groundwater sampling, approval of “No Further Action” was issued by ACEPD. Mr. Joakim (Jay) B. Nordqvist, P.E. with GSE was the Engineer of Record for this project.

1) FIRM NAME	2) FIRM LOCATION	3) ROLE
GSE Engineering & Consulting, Inc.	Gainesville, Florida	Phase I / Phase II / Site Assessment/ Remediation / Closure
AEL	Gainesville, Florida	Analytical Laboratory Testing



Engineering & Consulting, Inc.

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www.gseengineering.com

**Parcel Nos. 06032-001-000 & 06034-010-000
Gainesville, Alachua County, Florida**

YEAR COMPLETED PROFESSIONAL SERVICES

2017

PROJECT SIZE

2.5 Acres

PROJECT OWNER / CONTACT

Alachua County Fire Rescue

Chief William Northcutt

Phone (352)384-3101

E-mail wnorthcutt@alachuacounty.us

Gus Olmos, P.E. – ACEPD

Phone Office: (352) 264-6806

E-mail gus@alachuacounty.us



SERVICES PROVIDED

1. Phase I Site Assessment
2. Potable Well Sampling
3. Asbestos Building Material Survey

BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT

GSE performed a Phase I Environmental Site Assessment (Phase I ESA) as part of planned Alachua County acquisition of the subject site for construction of a fire rescue station. A potable well was on-site that was planned to be placed back in service to provide water supply to the station. In addition, demolition of on-site structures was planned.

No compelling recognized environmental conditions (RECs) were identified related to current or historical on site or nearby land use. However, as conservative prudent measure to confirm the quality of the groundwater, a sample was collected and analyzed for indicator parameters considering site and area land use. For the planned use the well would be classified as a "Limited Use Public Water System", under Florida rule established in Chapter 64E-8 Drinking Water Systems. The program was jointly developed by Mr. Gus Olmos, P.E. with the ACEPD and GSE. With exception of Total Coliform, no target constituents were identified in the collected groundwater sample exceeding maximum contaminant level (MCL) concentrations outlined in Chapter 62-550 FAC. The presence of total coliform was attributed to the lack of use of the well.

The survey for asbestos-containing materials for the existing structures (home, garage and shed) was conducted. No asbestos containing materials were identified.

Mr. Joakim (Jay) B. Nordqvist, P.E. with GSE was the Engineer of Record for this project.

1) FIRM NAME	2) FIRM LOCATION	3) ROLE
GSE Engineering & Consulting, Inc.	Gainesville, Florida	Phase I ESA/ Groundwater Sampling
AEL	Gainesville, Florida	Analytical Laboratory Testing
GLE	Gainesville, Florida	Asbestos Survey



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UNION COUNTY

ADOPTED-EXPEDITED STATE REVIEW

DEO NO. 18-1ESR

AMENDMENT CPA 17-02

AMENDING THE

FUTURE LAND USE ELEMENT, CONSERVATION ELEMENT

AND

FUTURE LAND USE PLAN MAP SERIES

OF THE COMPREHENSIVE PLAN

Words bolded and underlined are added
Words struck-through are deleted

ATTACHMENT A
 DRAFT LDR 18-00
 BOARD OF COUNTY COMMISSIONERS

LDR 18-00, an application by the Board of County Commissioners, to amend the text of the Land Development Regulations by amending Section 14.7 entitled Special Permits For Land and Water Fills, Dredging, Excavation, and Mining by deleting and replacing the provisions of the section in its entirety.

SECTION 14.7 SPECIAL PERMITS FOR LAND AND WATER FILLS, DREDGING, EXCAVATION, AND MINING, LAND EXCAVATION, AND FILLING ACTIVITIES

No mining, borrow pit operations (excepting temporary borrow pit operations of less than one-half (1/2) acre in size and further excepting the creation of irrigation, agricultural and agricultural water conservation purpose ponds approved by the United States Department of Agriculture), activities which involve the dredging or filling of land or water areas shall be conducted without first obtaining a special permit for such activities from the Board of County Commissioners in conformance with the requirements as stated below. Requests for such special permits shall be submitted in writing to the Land Development Regulation Administrator together with the payment of such reasonable fees as the Board of County Commissioners may determine through action in setting fees as set out in Article I of these land development regulations. The Land Development Regulation Administrator shall forward the request to the Planning and Zoning Board for review and shall erect a sign advertising the permit request on a prominent position on said land. The Planning and Zoning Board shall hold a public hearing in accordance with Article 13 of these land development regulations. The Planning and Zoning Board report and recommendations shall be advisory only and not binding upon the Board of County Commissioners.

**Union/Bradford County Phosphate Mining
 Union County, Florida**

YEAR COMPLETED PROFESSIONAL SERVICES

2019

PROJECT SIZE

Not Applicable

PROJECT OWNER / CONTACT

Alachua County Environmental Protection
 Stephen Hofstetter

Phone (352) 264-6811

E-mail shofstetter@alachuacounty.us

SERVICES PROVIDED

1. County Code Review Consulting

BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT

Alachua County requested environmental technical expertise to evaluate and identify potential environmental concerns and issues related to drafting and updating of the Union County code for proposed mining activities. A major phosphate mine is planned in portions of Union and Bradford Counties that spans the New River, a major tributary of the Santa Fe River, which ultimately flows into the Suwannee River and Gulf of Mexico. Alachua County has taken an active role in supporting the code development language for Union County to minimize possible impacts of phosphate mining within their county.

Alachua County requested assistance with the development of wetland code language and a review of submitted permitting material related to the mine. GSE retained WSI to assist with this effort. GSE and WSI attended a meeting with Alachua County, Union County, and North Central Florida Regional Planning Council (NCFRPC) staff. In addition, WSI wetland professional Mr. Scott Knight attended a public meeting for the Union County Land Development Regulation Mining Amendment. Requested input was provided to Alachua County.

Mr. Joakim (Jay) B. Nordqvist, P.E. with GSE served as the task assignment project manager.

1) FIRM NAME	2) FIRM LOCATION	3) ROLE
GSE Engineering & Consulting, Inc. WSI	Gainesville, Florida Gainesville, Florida	Phase I ESA/ Groundwater Sampling Ordinance and Policy Review



Engineering & Consulting, Inc.

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Millhopper Flatwoods – Weiss Parcel Gainesville, Alachua County, Florida

YEAR COMPLETED PROFESSIONAL SERVICES

2018

PROJECT SIZE

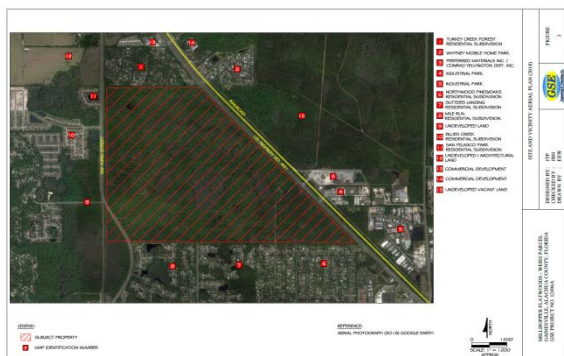
711 Acres

PROJECT OWNER / CONTACT

Mr. Kevin Ratkus

Conservation Land Acquisition Coordinator
 Alachua County Parks & Conservation Lands
 Phone (352)264-6845

E-mail kratkus@alachuacounty.us



SERVICES PROVIDED

1. Phase I Environmental Site Assessment – Large Tract

BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT

GSE performed a Phase I Environmental Site Assessment (Phase I ESA) as part of an Alachua County planned land acquisition under the Alachua County Wild Spaces Open Places initiative. The approximately 711 acre site was being used for seasonal hunting, camping, and related recreational activities. There were no buildings on the property. The subject site was not identified through the regulatory review.

The property is a combination of forested, creeks, and wet areas. Surface water was present on large portions of the property during our site visits. No underground or aboveground storage tanks were identified on the property. There were no indications of current or historical maintenance or storage areas. There was no maintenance or heavy equipment on-site. No chemical or petroleum product storage, use, or disposal was identified on-site.

Two borrow pits were present on the property. The pits became apparent on historical aerial photographs between 1951 and 1956. These likely provided fill soil for area roadway or other construction related improvements. There had been no appreciable change or activity in the area of these features over the years. There were no compelling visual indications during the site visit or review of aerial photographs to suggest large scale surface dumping or materials placement within the former borrow pit areas. As such, this historical activity was not considered to represent a likely environmental concern that would warrant further characterization.

Mr. Joakim (Jay) B. Nordqvist, P.E. with GSE was the Engineer of Record for this project.

1) FIRM NAME

2) FIRM LOCATION

3) ROLE

GSE Engineering & Consulting, Inc.

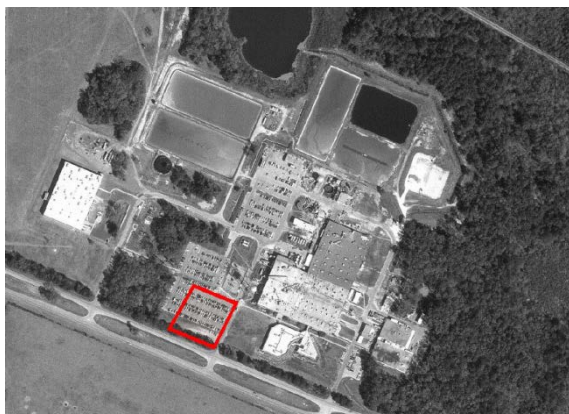
Gainesville, Florida

Phase I ESA



Engineering & Consulting, Inc.

GSE Engineering & Consulting, Inc.
5590 SW 64th Street, Suite B
Gainesville, Florida 32608
(352) 377-3233 Phone ♦ (352) 377-0335 Fax
www.gseengineering.com



Hague Fire Station – Alternate Site 1

Alachua, Alachua County, Florida

YEAR COMPLETED PROFESSIONAL SERVICES

2018

PROJECT SIZE

1.4 Acres

PROJECT OWNER / CONTACT

Mr. Tony Flegert, P.E.

CHW Professional Consultants, Inc.

Phone (386) 518-5124

E-mail tonyf@chw-inc.com



SERVICES PROVIDED

1. Phase I Environmental Site Assessment

BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT

GSE performed a Phase I Environmental Site Assessment (Phase I ESA) as part of planned Alachua County acquisition of the subject site for construction of a fire rescue station.

The 1.42 acre site is located on a portion of a former battery manufacturing facility property. The site was improved with a parking lot associated with the commercial and industrial use of the parent parcel and adjoining to the east former battery plant site. Review of the historical aerial photographs, topographic maps, and Alachua County Property Appraiser information confirmed the subject site remained as a parking lot since its construction as part of a former adjoining to the east industrial battery plant in 1963. Prior to this, the subject site was open pasture and agricultural land dating back to at least the 1930s.

The adjoining site to the east was under a long term FDEP issued RCRA Post-Closure Permit due to soil and groundwater impacts related to the former operation. A May 2017 Monitoring Report included recent and historical groundwater data for the impacted areas. Review of compiled assessment data confirmed targeted analytes had not been identified on or immediately adjoining the subject site. GSE interpretation of available assessment data was affirmed by Mr. Gus Olmos, P.E. with ACEPD. The original tax parcel for the historical battery plant was split into the parent and adjacent to the east parcels. The intent of the parcel split was to separate the areas with (i.e. eastern parcel) and without (parent parcel) documented soil and groundwater impacts.

In light of the above, no compelling indications of recognized environmental conditions (RECs) were identified related to portion of the subject site being considered for acquisition.

Mr. Joakim (Jay) B. Nordqvist, P.E. with GSE was the Engineer of Record for this project.

1) FIRM NAME

2) FIRM LOCATION

3) ROLE

GSE Engineering & Consulting, Inc.

Gainesville, Florida

Phase I ESA

CHW

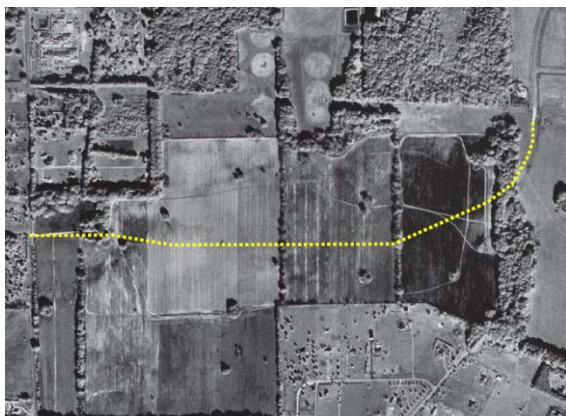
Alachua, Florida

Land Planning and Civil Design



Engineering & Consulting, Inc.

GSE Engineering & Consulting, Inc.
5590 SW 64th Street, Suite B
Gainesville, Florida 32608
(352) 377-3233 Phone ♦ (352) 377-0335 Fax
www.gseengineering.com



San Felasco Parkway

Alachua, Alachua County, Florida

YEAR COMPLETED PROFESSIONAL SERVICES

2018

PROJECT SIZE

1.5+ Mile Corridor

PROJECT OWNER / CONTACT

Ms. Monique Heathcock, P.E.

CHW Professional Consultants, Inc.

Phone (352) 331-1976

E-mail moniqueh@chw-inc.com

SERVICES PROVIDED

1. Phase I Environmental Site Assessment – Corridor Study

BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT

GSE performed a Phase I Environmental Site Assessment (Phase I ESA) corridor study as part of a City of Alachua planned acquisition and development of the San Felasco Parkway. The proposed 120 feet wide ROW corridor was approximately 7,850 feet in total length. In addition, there were several rectangular and triangular shaped areas included along and adjoining the ROW proposed as stormwater management facility (SMF) areas.

The central portion of the site was predominately open agricultural fields. The western portion of this area was in active row crop production. To the east of this row crop production was additional agricultural land with areas of exposed tilled soil and overgrown brush, grasses, and weeds. The site had remained in agricultural use dating back to at least the 1930s.

Application of agrochemicals occurred as part of the long term row crop production on the site and adjoining area over the years. As a result, residual concentrations of agrochemical related to long term applications may have been present. Some studies have shown that prescribed application can result in adverse impact to the soil and/or groundwater. Application of agrochemicals is generally not interpreted as and does not constitute a discharge, release or spill, but rather represents an intended use. There was a presumption of prescribed application consistent with recommended application rates. As such should residual levels remain they would not be expected to be subject to regulatory enforcement action. This historical land use was not interpreted as a recognized environmental condition, but rather a potential environmental risk.

Mr. Joakim (Jay) B. Nordqvist, P.E. with GSE was the Engineer of Record for this project.

1) FIRM NAME

2) FIRM LOCATION

3) ROLE

GSE Engineering & Consulting, Inc.

Gainesville, Florida

Phase I ESA

CHW

Alachua, Florida

Land Planning and Civil Design

3.0 ABILITY OF CONSULTANT'S PROFESSIONAL PERSONNEL

As stated earlier, Mr. Nordqvist, the GSE contract manager offers 30+ years of environmental technical expertise and proven contract management experience, with approximately 25 years of working in Alachua County. We assembled the GSE Team to provide the County with most experienced and knowledgeable experts in the fields of services outlined in Section 3.0 of the RFP. **Resumes for key GSE Team personnel assigned to this Contract, and the key personnel of our team of subconsultants, are presented on the following pages.**

RESUMES



Joakim (Jay) Nordqvist, P.E.

Principal Engineer/ QA/QC Coordinator



Engineering & Consulting, Inc.

5590 SW 64th Street, Suite B
Gainesville, FL 32608
Gseengineering.com

Professional Profile

Mr. Nordqvist has a very broad based knowledge of the construction and environmental industry having been involved in geotechnical, environmental, and construction related work for over 30 years. His primary professional focus has been in the environmental consulting area of practice. Mr. Nordqvist has been Principal-In-Charge for hundreds of contamination assessments, both private and governmental clients. These have ranged from preliminary to full delineation assessments and remediation including petroleum products, metals, and other hazardous materials, including chlorinated solvents. Mr. Nordqvist has been a leader on projects including natural resources, indoor air quality, vapor intrusion, storage tank compliance, water and wastewater, septic tanks, SPCC plans, microbial growth, and building condition assessments. Through this diverse experience, he has developed the ability to understand client needs and identify and assign appropriate resources to accomplish stakeholder goals in a professional and ethical manner. Mr. Nordqvist also has the lead role in maintaining and improving on the internal QA/QC program for GSE.

Project Experience

- Gator Crossings Development – Gainesville, Alachua County, Florida. Provided Phase I/II ESA services related to a real estate transaction. The Phase II ESA was conducted to characterize and differentiate between on and off-site potential soil and groundwater impact sources related to both petroleum and solvent related contaminants.
- Dogwood Park – Gainesville, Alachua County, Florida. Initially provided Phase I/II ESA services related to a real estate transaction. Subsequently provided Site Assessment services to characterize a former landfill operated by the City of Gainesville, Alachua County, and University of Florida. GSE provided for formal site closure with restrictive covenants with approval from the Florida Department of Environmental Protection (FDEP).
- 2000 Acre Industrial Property - Alachua, Alachua County, Florida. Initially provided Phase I/II ESA services. Portions of the property were characterized for agricultural and petroleum product related contaminants. Cleanup of agrochemical and petroleum contaminants within a former mix load area was performed. This site was granted closure through the FDEP. The regulatory process was expedited as a result of the project being handled as a pilot project by FDEP.
- Barnhardt Manufacturing Facility, Ocala, Marion County, Florida. Provided site assessment services related to an industrial solvent groundwater impact. Assisted in developing a Consent Agreement with the FDEP Southwest District to allow for remediation through natural attenuation.
- Multiple Telecommunication Towers - Florida. Provided Phase I ESA and National Environmental Policy Act (NEPA) reviews for 100+ sites throughout Florida, including cultural resources reviews and coordination with various regulatory entities.
- Alachua County Environmental Protection Department – Gainesville, Alachua County, Florida. Served as Contract Manager for a continuing services contract to provide environmental consulting. Scope included site assessments, regulatory compliance, remediation, and evaluation of environmental liabilities.

Education

B.S., Civil Engineering, University of Florida, 1985

Certifications

Professional Engineer Florida- 42681

Areas of Specialization

Phase I & II Environmental Site Assessments

Brownfields

Soil & Groundwater Assessment and Remediation

Risk Based Corrective Action

Groundwater Modeling

Environmental Compliance and Permitting

Peer Review

Subsidence (Sinkhole) Evaluations

Sinkhole Remediation

Geotechnical Engineering

Construction Material Testing & Inspection

Field Inspections

Affiliations

Urban Land Institute (ULI)

Florida Brownfields Association

Rotary Club of Gainesville

Leadership Gainesville (Class 25)

Alachua County Economic Development Advisory Committee



Kenneth L. Hill, P.E.

Principal Engineer



Engineering & Consulting, Inc.

5590 SW 64th Street, Suite B
Gainesville, FL 32608
Gseengineering.com

Professional Profile

Mr. Hill is a registered Professional Engineer in the State of Florida with 35 years experience in project and contract management, with over 30 years of that experience in North Central Florida. Mr. Hill is involved in contract management and technical design, analyses, and oversight for a wide variety of projects for both public and private clients. In his management role, Mr. Hill has accumulated a broad range of experience in the geotechnical, structural and environmental services area. He regularly provides oversight and support in all of these areas as a technical resource and proven leader.

Mr. Hill is the contract manager and point of contact for our continuing services agreement with Alachua County Public Works tact. GSE has also performed mostly geotechnical and structural engineering services through this contract. GSE has received a continuing services contract from Alachua County Public Works for the past 8 years. Mr. Hill is also the contract manager and point of contact for an ongoing \$1.5 million contract with FDOT District 2. FDOT provides quarterly grades on a scale of 1 to 5 for all services performed, including contract and project management. GSE has consistently received grades of 4 or higher (Above Satisfactory).

GSE was recently awarded continuing services contracts with the City of Alachua and City of Gainesville. These contracts encompass environmental, geotechnical and structural engineering services and construction materials testing. Mr. Hill is the contract manager for these services.

Project Experience

- N-522 HUB 2 Site, Gainesville, Alachua County, Florida – Mr. Hill provided technical review for proposed dewatering activities potential to influence off-site groundwater contamination sources including nearby former petroleum product and dry cleaning operations. Our services were provided to address FDOT Request for Additional Information (RAI) for the dewatering permit being obtained through the St. Johns Water Management District.
- HUB 1 Site, Gainesville, Alachua County, Florida – GSE was requested to conduct a peer review of two environmental assessment reports in order to provide an opinion related to the conclusions, recommendations for the proposed soil disposal and dewatering management plans. Mr. Hill provided technical review of the peer review document.
- Hogtown Headwaters Park, Gainesville, Florida – Mr. Hill managed the geotechnical evaluation for the storm water management facilities and parking lots associated with the development of this city park at the historic Hartman Homestead.
- SantaFe Health Park, Gainesville, Florida – Mr. Hill managed the geotechnical evaluation for the master drainage plan and storm water management facilities for the expansion of the medical office park.
- Health Professions, Nursing and Pharmacy Complex, University of Florida, Gainesville, Florida – Mr. Hill performed the geotechnical evaluation of the four story, steel frame hospital. The recommendations included using stone columns to improve soft zones of the subgrade to reduce settlements of the shallow foundations.

Education

B.S., Civil Engineering, University of Missouri- Rolla, 1983

Certifications

Professional Engineer
Florida- 40146, Georgia- 18552

Areas of Specialization

Geotechnical Engineering
Environmental Analysis Support
Slope Stability Analyses
Surcharge Design and Analyses
Sinkhole Evaluations
Embankment Design
Dam & Levee Foundation Design
Settlement Analyses
Roadway Soil Surveys
Mechanically Stabilized Earth
Shallow Foundation Analyses
Bridge Foundation Analyses
Drilled Pier Foundations
Pavement Design
Groundwater Monitoring Systems
Driven Pile Foundations
Driven Pile and Drilled Shaft Load Testing

Affiliations

American Society of Civil Engineers
(ASCE)



Ryan McKenna, E.I.

Staff Engineer



Engineering & Consulting, Inc.

5590 SW 64th Street, Suite B
Gainesville, FL 32608
Gseengineering.com

Professional Profile

Mr. McKenna has been involved in environmental, geotechnical, and construction inspection related work for 5+ years. He has a very broad based knowledge of the environmental and construction industry. Mr. McKenna has been involved in environmental sampling, inspection and assessment for air, soil and water. He has assisted in developing Remedial Action Plans (RAPs). Mr. McKenna is familiar with FDEP soil, groundwater, and surface water standards and guidelines. Mr. McKenna has also been involved in construction material testing and inspection on multiple construction projects ranging from multi-story buildings to roadways. He holds multiple certifications in the construction field and laboratory testing area, which can be applied to and used in the field for environmental remedial efforts.

Project Experience

- Ulmerton Road Site, Largo, Pinellas County, Florida, 2017 – Mr. McKenna provided field oversight for well installation including developing boring logs and well completion logs for Ulmerton Road Site in Largo, Pinellas County, Florida.
- Hull Road Area Project, Gainesville, Alachua County, Florida – Mr. McKenna assisted with project related execution including preparation of health and safety plan for this landfill characterization project.
- Multiple Projects - Mr. McKenna has conducted temporary well installations, measured groundwater levels & sampled groundwater for multiple private projects.

Education

B.S., Environmental Engineering,
University of Florida, 1997

Certifications

E.I., State of Florida
40 Hour HazWoper Certification
ACI Concrete Field Testing Technician -
Grade I
Troxler In-Situ Density Certification
Troxler Haz-Mat Certification
Earthwork Inspector Level 1
Asphalt Roadway 1
LBR
Aggregate Base Certification

Areas of Specialization

Soil and Groundwater Sampling
Phase I& II Environmental Site
Assessment
Environmental Health & Safety Plan
Development
General Construction Material Testing
& Inspection



John T. Potvin III

Staff Scientist



Engineering & Consulting, Inc.

5590 SW 64th Street, Suite B
Gainesville, FL 32608
gseengineering.com

PROFESSIONAL EXPERIENCE

John Potvin is a Staff Scientist with GSE Engineering and Consulting, Inc. Mr. Potvin graduated from The University of Florida with Bachelor's of Science degrees in Environmental Science. Mr. Potvin's prior experience as an environmental specialist with Levy, Dixie, and Gilchrist Tri-County Health Department, in addition to his current position as a staff scientist, has given him a diverse supporting role in the company.

Mr. Potvin mostly performs Phase I and Phase II Environmental Site Assessments. He has also assisted with environmental statistical analysis and data reduction and review. Mr. Potvin has assisted in the preparation of site assessment reports for regulatory agency review. He has participated in Brownfields related projects. He is familiar with State of Florida soil, groundwater, and surface water standards and guidelines.

In addition, he has assisted with geotechnical site explorations, soil classifications, and stormwater related design. The geotechnical related experience is of benefit in conducting environmental site assessments as provides an understanding of subsurface conditions that may impact environmental contaminants and transport.

PROJECT EXPERIENCE

- ◆ **Millhopper Flatwoods Weiss Parcel** - Gainesville, Alachua County, Florida.

Conducted Phase I ESA for 700+ acre site included a site visit, area reconnaissance, historical & regulatory information review, area geology & topography review, and report preparation.

- ◆ **East 8th Street Brownfields Site** - Jacksonville, Duval County, Florida.

Performed 95 percent upper confidence interval (UCI) statistical analysis for soil test results to develop remedial approach. Participated in meeting with FDEP for this Brownfields site representing a potential developer

- ◆ **Wildwood Commercial Retail** - Wildwood, Sumter County, Florida

Performed Phase I&II ESA services. Conducted supplemental assessment and statistical analysis of soil data. Assisted in preparation and assembly of final report for FDEP submittal.

Education

B.S., Environmental Science,
University of Florida, 2018

Minor, Soil and Water Sciences,
University of Florida, 2018

Areas of Specialization

Phase I & II Environmental Site
Assessment

Soil and Groundwater Sampling

Geotechnical Site Explorations

Affiliations

City of Gainesville Youth
Basketball Coach (Volunteer)

Gainesville Rotaract
(Volunteer)



Elizabeth Whitaker

Staff Engineering Aide



Engineering & Consulting, Inc.

5590 SW 64th Street, Suite B
Gainesville, FL 32608
Gseengineering.com

Experience Profile

Ms. Elizabeth Whitaker is a staff engineering aid with GSE Engineering & Consulting, Inc. She has been involved in environmental related work with GSE work for 2+ years. She has participated in both field and office related tasks. This includes support services for Phase I and Phase II Environmental Site Assessments, data reduction, preparation of site assessment reports for regulatory agency review, and ACAD drafting. She is familiar with and efficiently navigates on-line regulatory and published information websites. Ms. Whitaker is familiar with and compares laboratory test data to FDEP soil, groundwater, and surface water quality standards.

Project Experience

- Commercial Retail Center, Wildwood, Sumter County, Florida – Ms. Whitaker provided technical and data presentation support services for the Phase I & II ESA. She generated site plans, boring logs, laboratory summary tables, and regulatory information compilation.
- Hull Road Area Project, Gainesville, Alachua County, Florida – Ms. Whitaker assisted reduction of field data related to test pits and DPT borings conducted at the site. She provided visual representations of the extent and type of solid waste encountered.
- Phase I ESA Multiple Projects - Ms. Whitaker has participated and provided support services for more than 50 projects assisting with researching, obtaining and compiling regulatory, historical, and published information, and developing report figures, tables, and written summaries.

Education

Santa Fe College:
Associate of Arts Degree (2017)

Areas of Specialization

Phase I& II Environmental Site
Assessment Support Services

Soil and Groundwater Data Analysis
and Reduction

Historical and Regulatory Information
Research

Published Information Research and
Compilation

ACAD



Abriel Mauerman

Staff Engineering Technician



Engineering & Consulting, Inc.

5590 SW 64th Street, Suite B
Gainesville, FL 32608
Gseengineering.com

Experience Profile

Mr. Mauerman has been involved with environmental field testing for 2+ years and has a broad knowledge of remediation systems, groundwater sampling, and soil sampling associated with petroleum contamination.

Mr. Mauerman has experience with data entry, analysis, and ACAD image generation.

Mr. Mauerman has also become proficient in construction materials testing over the course of a year for concrete strength testing, aggregate base testing, and LBR testing.

Project Experience

- Veterans Administration Tunnel Soil Investigation, Gainesville, Alachua County, Florida – Mr. Mauerman provided soil sampling and classification services. A DPT rig was used for soil retrieval. He screened representative soil samples with an organic vapor analyzer and collected representative samples for laboratory analysis.
- Phoenix Commercial Park, Alachua, Alachua County, Florida – Mr. Mauerman assisted with soil and groundwater sampling services. A DPT rig was used for soil and groundwater retrieval. Representative soil samples were screened with an organic vapor analyzer and visually classified. Groundwater samples were retrieved using a peristaltic pump and transported to the laboratory for analysis.
- Various Projects – Mr. Mauerman assists and provides to the construction material testing laboratory on multiple projects.

Education

Santa Fe College

Areas of Specialization

Environmental Field Testing (Soil, Groundwater and Air)

Information Research and Compilation

ACAD

Compressive Strength Testing for Concrete

Aggregate Base Testing

ADVANCED ENVIRONMENTAL LABORATORIES, INC.

Professional Resume

Todd Romero

Areas of Specialization

Over 25 years of environmental technical experience including Project Management, Environmental Engineering, Information Technology Services, Business Development, Client Services, and Office Operational Systems.

Education

B.S., Environmental Engineering, University of Florida, 1996

Professional Experience

Advanced Environmental Laboratories, Inc. Gainesville, FL

May 2015 – Present

Strategic Accounts Manager. Responsible as primary contact for clients not limited too but mostly involved with complex sites involving site assessments and various remediation techniques requiring project tailored sampling plans.

Laboratory Manager. Responsible for all aspects of laboratory operation including client services, analytical testing, business development, and overseeing quality assurance including NELAP compliance.

KB Labs, Inc., Gainesville, FL

June 2001 - April 2015

Director of Operations. Responsible for all operational systems involving the mobile laboratory and High Resolution Direct Sensing (MIP/MiHPT, HPT, and EC) business units at KB Labs. Typical duties as Director of Operations included implementation of the QA/QC systems for the certified (NELAC, DOD ELAP, and other state agencies) mobile laboratories, client services, project management, field logistics, unit and personnel assignments, data review and reporting, modeling visualizations, information technology services, and business development for Gainesville, FL, and Raleigh, NC, offices. KB Labs client base was diversified within both the private and public sectors mainly consisting of federal, state and industrial environmental assessment and remediation contractors.

MACTEC, (formerly Environmental Sciences and Engineering and currently Wood EIS), Gainesville, FL

September 1986 – June 2001

Senior Staff Engineer/Laboratory Department Manager. Responsibility in various disciplines including: managing US Naval Station air compliance programs, designing air compliance software, preparing air construction and operating permits, performing compliance audits, evaluating visible emission sources, managing Information Services Department and Data Group in the analytical testing laboratory, managing laboratory sample analysis projects, and assisting in design of a Laboratory Information Management System (LIMS).

Certifications

Engineer in Training (EIT) 2000 Florida Board of Professional Engineers

Presentations

Using Ultraviolet Fluorescence (UVF) as a Rapid Onsite Screening Technology for Assessing Petroleum Contamination; ADEM Underground Storage Tank Assessment and Remediation Conference; Montgomery, AL; November 2013.

Innovative Technologies for Assessment at Brownfield Sites; Florida Brownfields Conference; St Petersburg, FL; October 2012.

Use of Fluorescence Tools for Rapid Onsite Assessment of Petroleum Hydrocarbon Contamination; 3rd Annual AIPG-Georgia Section Conference: Innovative Environmental Assessment and Remediation; Kennesaw, GA; April 2011.

Dependable Service ~ Uncompromising Quality

6601 Southpoint Parkway, Jacksonville, FL 32216 904-363-9350, FAX 904-363-9354



Overview

Over 17 years of experience in Field sampling for a wide range of Clients ranging from County, City, and State agencies as well as Federal facilities. Sampling includes groundwater wells as well as surface water, streams, rivers, WWTP plants, composites and hazardous waste facilities following FDEP Sampling Standard Operating Procedures (SOPs).

Education/Certifications Pertaining to Work

University of Florida Treeo Center (Gainesville, FL) FDEP training for Introduction to DEP SOP's for Surface and Groundwater sampling (2004 and 2012).

40 hr Hazwoper

8 hr Hazwoper refresher from USF (online)

Professional Experience

Advanced Environmental Laboratories, Inc.

April 2002 – Present

Field Services Supervisor

Responsible for all Field Technicians within AEL's seven Florida laboratories by keeping up with client sampling needs and making sure technicians are prepared to satisfactorily complete each sampling job providing the necessary equipment, training and supplies. Other responsibilities include tracking all AEL field equipment and vehicles for maintenance and repairs.



Overview

Laboratory Manager with 20 years of experience in a laboratory setting. Josh performs daily management of all laboratory activities in the Gainesville laboratory of AEL. Josh has a thorough knowledge of both Inorganic and Organic chemistry analyses while meeting NELAP (TNI), EPA, FDEP, and FDOH regulations.

Education

B.S., Biology, University of North Florida, 1997

Professional Experience

Advanced Environmental Laboratories, Inc.

January 2019 – Present

Laboratory Manager (Technical Director)

Responsible for the day to day operation and oversight of the laboratory.

Advanced Environmental Laboratories, Inc.

July 2018 – January 2019

Assistant Laboratory Manager

Responsible for helping with the day to day operation and oversight of the laboratory.

Advanced Environmental Laboratories, Inc.

Mar 2016 – July 2018

Account Executive

Worked with environmental consultants, municipalities, military and private companies in Northeast Florida, helping expedite lab work for clients. Helped to procure new clients and maintain existing clients for the Jacksonville laboratory plus the other 6 other AEL Florida laboratories.

Advanced Environmental Laboratories, Inc.

March 2006 -- March 2016

Project Manager

Maintain client relationships by serving as an interface between the client and the laboratory. Managing all aspects of client services to include: sample custody, field services, working closely with regulating agencies for client needs, reviewing and sending laboratory reports, and business development.

Advanced Environmental Laboratories, Inc.

May 2001 -- March 2006

Organics Analyst/Supervisor

Direct daily management of the extractions, volatile and semi-volatile organic departments of AEL's Jacksonville laboratory. Performed instrumentation maintenance of multiple Shimadzu, Perkin Elmer and Agilent GC and HPLC instruments and scheduling of analysis. Maintenance included, but was not limited to inlet, weldment, column and detector maintenance. Conducted staff training and ensured compliance with NELAP (TNI), DOD (ELAP), EPA, FDEP, and FDOH regulations. Also analyzed a variety of sample matrices (including drinking water, wastewater, groundwater, soil, oils, sludge, air filters, mixed waste and finished products) for semi-volatile organic contaminants (pesticides, polychlorinated biphenyls, halo-acetic acids, diesel range and petroleum range organics) using HPLC, dual column GC/ECD, NPD, FID and Mass Spectrometer as directed by EPA method series 8000, 500 and 600. Extensive process and review training, troubleshooting, and method development/improvement and repair of GC's with various detectors (FID, ECD, and MS). Executed peer review of raw data to facilitate the laboratory's validation process. Review and revises laboratory SOP's to ensure compliance with changes in regulatory criteria. Maintained quality control data and participated successfully in proficiency testing and corrective actions.





PAUL S. ZAK, CIH
North Florida Operations Manager



EXPERIENCE

19 Years



GLE EMPLOYEE

15 Years



EDUCATION

Bachelor of Science,
Environmental & Forest
Biology
State University of New York
College of Environmental
Science and Forestry at
Syracuse—1993



LICENSES

EPA Lead-Based Paint
Risk Assessor (FL)
Mold Assessor (FL)



TRAINING

AHERA Asbestos
Contractor/Supervisor
AHERA Asbestos Inspector
AHERA Asbestos
Management Planner
AHERA Asbestos Project
Designer
OSHA Hazwoper
NIOSH 582: Sampling
& Evaluating Airborne
Asbestos Dust
XRF - RMD's LPA-1 Lead
Paint Inspection
System



CERTIFICATIONS

Certified Industrial
Hygienist (CIH)

SUMMARY

Mr. Zak has been involved in the environmental consulting field since 1999. He has a working knowledge of regulations and projects involving industrial hygiene, safety, asbestos, lead, Indoor Air Quality (IAQ), mold, Environmental Site Assessments (ESAs), and OSHA compliance. As the North Florida Operations Manager, his duties include business development, project bidding and proposals, project execution, report writing and senior oversight for the Gainesville, Jacksonville, and Orlando offices. Mr. Zak currently manages eight term contracts related to industrial hygiene, environmental assessment, health and safety, asbestos, IAQ and lead-based paint consulting.

Mr. Zak has extensive experience with a wide variety of public, private and industrial clients. Recent clients have included the Federal Emergency Management Agency (FEMA), Department of Veteran Affairs, State of Florida Department of Environmental Protection, the City of Gainesville, Panhandle Area Educational Consortium, Alachua, Baker, Brevard, Citrus, Duval, Hernando, Suwannee and Volusia County Schools, the University of Florida, Texas A&M University, Georgia Southern University, Shands Healthcare, Balfour Beatty Construction, Balfour Beatty Communities, Northstar, NCM Environmental, Hensel Phelps, Skanska, General Growth Properties, Georgia Pacific, LVI Environmental Services, M-D Building Products, Parsons, BellSouth, The Pantry, Tower Sealants, Allstate, Nationwide and State Farm Insurance Companies and an extensive list of architectural, construction and engineering firms throughout the country.

PROJECT EXPERIENCE

FLORIDA HOSPITAL:

Mr. Zak is currently providing senior project management over asbestos and lead inspections and monitoring as well as indoor air quality projects for the Rollins, Altamonte Springs, Winter Park, Celebration and East Campuses of Florida Hospital. GLE has provided over \$300,000 in services to Florida Hospital since 2012.



SEMINOLE COUNTY RISK MANAGEMENT:

Mr. Zak was the client manager for an ongoing environmental consulting contract that GLE has held with the Seminole County Risk Management department since 2010 worth over \$33,000. GLE has completed multiple asbestos, lead, Indoor Air Quality (IAQ) and mold consulting services for over a dozen facilities operated by the county. Through this contract GLE has also performed asbestos, lead and IAQ consulting with Seminole County Sheriff's Office and Seminole County Fire Department.

UNIVERSITY OF FLORIDA:

Mr. Zak is currently the Client Manager of a continuing service environmental consulting contract GLE has held with the University of Florida. He has managed and conducted various asbestos and lead inspection and abatement activities, radon testing, industrial hygiene sampling, mercury flooring abatement, Indoor Air Quality (IAQ) building commissioning and Environmental Site Assessments (ESAs) throughout the campus and extension offices throughout the state of Florida. Mr. Zak was recently the senior project manager of the abatement of over 45,000 SF of asbestos containing fireproofing in the Health Science Center, with a construction budget of approximately \$1,500,000. Under GLE's direction, more than 1,800 projects have been successfully completed for UF involving the abatement of approximately 235,000 SF of asbestos containing fireproofing and over 700,000 SF of asbestos containing floor tile. The total cost for this ongoing contract held by GLE since 1997 is over \$4,500,000.

CITRUS COUNTY SCHOOL DISTRICT:

Mr. Zak is currently the Client Manager for an ongoing environment consulting contract GLE has held with the Citrus County School District since 1996 worth over \$1,300,000. GLE has completed over 280 projects for the District, including asbestos and lead-based paint inspections and monitoring, Underground Storage Tank (UST) removals and closures, initial source remediation, contamination assessments and remediation for petroleum products, Indoor Air Quality (IAQ) consulting and radon measurement and mitigation. Mr. Zak was recently the senior project manager for the selective demolition and renovations of Crystal River Primary and Crystal River High Schools, with a construction budget of over \$2,000,000.

PARSONS BELL SOUTH TELECOMMUNICATIONS:

Mr. Zak has managed various asbestos and lead inspections, mold investigations, Indoor Air Quality (IAQ) testing and hazardous material identification at several Air Force bases and Bell South facilities throughout Florida.

GENERAL GROWTH PROPERTIES, INC. (GGP):

Provided asbestos inspection and monitoring services for over 100 individual surveys for GGP's retail mall facilities located throughout Florida. GLE has conducted approximately 600 projects and provided over \$2M in services to GGP since 2000.

GEORGIA PACIFIC:

Client manager for a five-year term contract GLE held. Services provided included lead surveys, mold investigations and an asbestos survey of the Palatka Mill, which involved the collection and analysis of over 3,500 samples. Each sample was individually labeled then color coded bands were applied to the material to assist with the demarcation of asbestos throughout the facility. GLE integrated the existing site documentation into a master database of asbestos containing materials for the facility. GLE provided over \$500,000 in services to Georgia Pacific since 2007.



TEXAS A&M UNIVERSITY:

Mr. Zak has provided Certified Industrial Hygiene services for Texas A&M University (TAMU). Services have included the investigation and evaluation of over 200 types of confined spaces throughout the main campus. GLE has also composed a site-specific confined space program and Mr. Zak has conducted the training of over 80 TAMU staff on the new campus policy. He has also provided senior review on the revised TAMU campus-wide health and safety plan. GLE has provided nearly \$40,000 in services to TAMU.

SHANDS HEALTHCARE:

Mr. Zak routinely manages and performs various services, including asbestos inspections, air monitoring and project management for various facility renovation projects at Shands HealthCare. Recently, he has managed and conducted an asbestos survey of the Rush Lake Motel, Schuct Village and 12-story former University Hotel in Gainesville, Florida. GLE has also conducted approximately 770 projects and provided over \$1,650,000 in services to Shands HealthCare since 2000.

DEPARTMENT OF VETERANS AFFAIRS MEDICAL CENTER (VAMC):

Mr. Zak routinely manages and performs a wide range of building science services, including Indoor Air Quality (IAQ), asbestos inspections, air monitoring and project management of various facility renovation projects for the VAMC. Mr. Zak was recently the Senior Project Manager over the asbestos abatement coinciding with the Correct Patient Deficiencies project, which includes the addition of a 241,000 GSF bed tower and renovations of over 66,000 GSF at the Malcolm Randall VAMC in Gainesville. The construction cost for this project is between \$80,000,000 and \$120,000,000. GLE has conducted over 400 projects and provided over \$920,000 in services to the Malcolm Randall VAMC and Lake City VAMC since 2001. GLE has also provided over \$300,000 in services to various Service-Disabled Veteran-Owned Small Businesses (SDVOSB) architectural firms, engineering firms, and general contractors over the past five years in conjunction with various VAMC renovations.

NASA/KENNEDY SPACE CENTER:

Mr. Zak has provided senior technical industrial hygiene services for a contract GLE was awarded in 2007 with LVI Environmental Services, Inc. (LVI) for renovations at the Operations and Checkout Facility at the Kennedy Space Center. GLE has provided over \$60,000 in third party industrial hygiene services to LVI in support of this project. GLE was also awarded a time and materials contract with Hensel Phelps to provide industrial hygiene and environmental consulting services for the various trades that are performing the renovations of this historic facility. GLE has provided over \$25,000 in services to Hensel Phelps in support of this project.

FLORIDA DEPARTMENT OF TRANSPORTATION- DISTRICT V:

Mr. Zak is currently the Client Manager for an ongoing continuing service contract that GLE has held since 2002 with the Florida Department of Transportation (FDOT) District V. He has managed and conducted asbestos inspections and asbestos abatement project monitoring for more than 450 Right-of-Way projects for the District under this contract, with a total estimated cost of over \$1,800,000.





ROY GRAY

Project Manager



SUMMARY

Mr. Gray has been involved in the environmental remediation, consulting, contracting and general construction industry since 1980. He has extensive experience with asbestos project monitoring activities to ensure work practices are performed safely and within OSHA and EPA regulations. He has served as Project Manager on projects with costs exceeding \$20 million. Mr. Gray has extensive experience with a wide variety of public and private clients. Recent clients have included the Malcolm Randall Veterans Affairs Medical Center, Shands HealthCare and the University of Florida. Over the past three years, Mr. Gray has served as the primary project monitor for several large asbestos abatement projects involving the removal of asbestos-containing spray-applied fireproofing from occupied educational and healthcare facilities.

PROJECT EXPERIENCE

UNIVERSITY OF FLORIDA:

Mr. Gray has served as asbestos project monitor for over 500 asbestos abatement projects at the University of Florida. As the Owner's on-site representative during asbestos abatement projects, he performs inspections of the engineering controls to minimize the potential for contamination of non-work areas and to ensure the safety of the workers and building occupants. He also provides air monitoring and Phase Contrast Microscopy (PCM) analysis during asbestos abatement activities to document conditions as the work is progressing and provides final clearance air sampling.

FLORIDA DEPARTMENT OF TRANSPORTATION-DISTRICT V:

Mr. Gray conducts project oversight in the remediation of several demolition sites for the FDOT. Acting as the primary air-monitor on-site, he insures that all engineering controls are inspected so no contamination of non-work areas will occur; thus insuring the safety of workers and residents in surrounding areas. Mr. Gray insures the initial survey of each site is correct and identifies and tests any new possible asbestos-containing materials found.



EXPERIENCE

38 Years



GLE EMPLOYEE

17 Years



LICENSES

Asbestos Air Monitoring (TX)



TRAINING

Air Monitoring Technician
AHERA Asbestos
Contractor/Supervisor
AHERA Asbestos
Inspector
OSHA Hazwoper
JEA Construction Site
Safety
NIOSH 582: Sampling
& Evaluating Airborne
Asbestos Dust



ALACHUA COUNTY SCHOOL DISTRICT:

Mr. Gray has served as the project monitor for numerous asbestos abatement projects for the Alachua County School District. He has also provided air monitoring and supervision for projects at Kirby Smith Elementary, J.J. Finely Elementary, Metcalf Elementary School, Buchholz High School and Santa Fe High School.

CITRUS COUNTY SCHOOL DISTRICT:

Mr. Gray has served as asbestos project monitor for over a twelve asbestos abatement projects on behalf of the Citrus County School District. He has also provided inspection services as part of numerous three-year asbestos re-inspections and six-month asbestos surveillances.

SHANDS HEALTHCARE:

Mr. Gray was responsible for project management, including area and personnel air monitoring for multiple large asbestos abatement projects requiring regulated areas adjacent to occupants at Shands. He has also provided construction design and surveillance during asbestos abatement and performed several Indoor Air Quality assessments.

FLORIDA POWER AND LIGHT:

Mr. Gray has provided asbestos inspection and monitoring services over a two month period for the Florida Power and Light facility in Palatka, Florida. Mr. Gray conducted the project oversight, project air monitoring, and final visual observations associated with the removal of asbestos-containing white canvas cloth and cementitious panels, and metal cables and cable trays sprayed with asbestos-containing fireproofing.

GENERAL GROWTH PROPERTIES, INC.:

Mr. Gray has provided asbestos inspection and monitoring services for GGP's retail mall facilities located in Florida and Georgia. GLE has conducted approximately 588 projects and provided over \$2,050,000 in services to GGP since 2000.

NASA/KENNEDY SPACE CENTER:

Mr. Gray has significantly contributed to this contract GLE was awarded in 2007 with LVI Environmental Services, for the renovations at the Operations and Checkout Facility at the Kennedy Space Center. GLE has provided over \$60,000 in third party Industrial Hygiene Services to LVI in support of this project. GLE was also awarded a time and materials contract with Hensel Phelps to provide Industrial Hygiene and Environmental Consulting Services for the various trades performing the renovations of this historic facility. GLE has provided over \$25,000 in services to Hensel Phelps in support of this project.

MALCOLM RANDALL VA MEDICAL CENTER:

Mr. Gray has served as asbestos project monitor for over 100 asbestos abatement projects at the VA Medical Center. As the Owner's on-site representative during asbestos abatement projects, he performs inspections of the engineering controls to minimize the potential for contamination of non-work areas and to ensure the safety of the workers and building occupants. He also provides air monitoring and Phase Contrast Microscopy (PCM) analysis during asbestos abatement activities to document conditions as the work is progressing and provides final clearance air sampling upon completion of the abatement activities.





Education

M.E., Environmental
Engineering, University of
Florida, 1994

Graduate Wetlands
Certificate, University of
Florida, 1994

B.S., Environmental
Engineering, University of
Florida, 1992

Professional Registrations

PE FL/Civil, No. 54040

PE OR/Civil, No. 92567

PE SC/Civil, No. 29477

Qualified Stormwater
Management Inspector
(#31267)

Experience

WSI: 2003-present
(Gainesville, FL)

CH2M: 1994-2003

Expertise

Treatment Wetland Design
Restoration Design
Wetland Process Modeling
Wetland Hydrology
Treatment Wetland O&M
Tracer Studies

Mr. Keller is experienced in water resources engineering, water quality and biological monitoring, water quality treatment, and environmental permitting. Mr. Keller has particular expertise in treatment wetlands design, performance optimization, water regime and hydrologic analysis, and data interpretation.

Representative Project Experience

Itchepackesassa Creek Regional Stormwater Treatment Project, Polk County Natural Resources Department, Polk County, FL (Budget - \$80.110): Mr. Keller assisted with the design of the Itchepackesassa Creek Regional Stormwater Treatment Facility that was implemented by Polk County to enhance water quality in a creek that is classified as impaired for dissolved oxygen and nutrients. Mr. Keller assisted in design of the project by developing the conceptual wetland layout, estimating the existing nutrient and pollutant loads, estimating the water quality enhancement benefits of the project, developing the vegetation planting plans, assisting in development of an O&M plan, and overseeing vegetation installation during construction.

Lake Hancock Outfall Treatment Project, SWFWMD, Bartow, FL (Budget - \$571,000 +/-): Mr. Keller provided senior wetland design assistance and water quality modeling for the Lake Hancock Outfall Treatment Wetland in Polk County, Florida. This design was particularly challenging because of the high content of organic nitrogen in this eutrophic lake and the highly variable flow regime at the outlet from the lake. Mr. Keller prepared water quality modeling estimates, design drawings for the wetland planting plan, wetland planting specifications, and elements of the operations and maintenance plan.

C-43 Water Quality Treatment and Testing Project, SFWMD, Labelle, FL (Budget - \$340,504): Mr. Keller served as WSI project manager and provided senior engineering guidance for the design of the C-43 WQTP which was developed to demonstrate and implement cost-effective wetland-based strategies for reducing total nitrogen (TN), total phosphorus (TP), and total suspended solids (TSS) loads to the C-43 Canal, Caloosahatchee River, and downstream estuarine ecosystems. The project included the design, construction, and operation of a multi-scale wetland test/demonstration facility using constructed wetlands dominated by either emergent vegetation (EMV) or submerged aquatic vegetation (SAV). Mr. Keller currently provides QA/QC for operational data collection and reporting tasks.

Ichetucknee Springshed Water Quality Improvement Project, SRWMD, Lake City, FL (Budget - \$56,204): Mr. Keller provided senior design guidance for the ISWQIP which includes the conversion of an effluent sprayfield to a groundwater recharge wetland system. The project was designed to improve the quality of reclaimed effluent that recharges the aquifer. This is the first full-scale application of the recharge wetland technology in North Central Florida's karst region.

Three Sisters Stormwater Treatment Wetland (W471), SWFWMD, Crystal River, FL (Budget - \$65,000 +/-): Mr. Keller was lead engineer for all phases of this stormwater retrofit project which was implemented to improve the water quality of stormwater entering King's Bay in Crystal River. Mr. Keller's specific tasks included the feasibility analysis, hydrologic/hydraulic analysis, stormwater pollutant loading analysis, environmental permitting, performance estimation, and wetland design criteria development (size, layout, water depths, inlet and outlet structures, berm heights, and target plant

communities), final design plan preparation, and construction-phase services. The project provided a passive, gravity treatment wetland system designed to capture peak stormwater flows for treatment in a flow-through wetland system discharging into King's Bay. This design required careful management of offsite stormwater impacts resulting from adding control structures. The selected design maximized treatment opportunities while addressing tidal fluctuations and minimizing offsite impacts.

Treatment Wetland Feasibility Study (P301), SWFWMD (Budget – \$77,702): Mr. Keller was WSI's project manager and lead engineer for a District-wide feasibility study to determine the potential nutrient removal and aquifer recharge benefits of converting existing wastewater land application sites to groundwater recharge wetlands. WSI screened sixteen facilities for suitability, fully-evaluated the feasibility for ten facilities, and prepared a detailed conceptual design for the top-ranked facility. This project also included interfacing with the utilities and presentation to two utilities of ranked alternatives.

Lake Apopka Marsh Flow-Way Optimization, SJRWMD, Palatka, FL (Budget - \$31,240): Mr. Keller collaborated on the identification and evaluation of structural, physical, and operational modifications to enhance water quality treatment for the 700-acre Apopka Marsh Flow-Way, which treats highly eutrophic surface water from Lake Apopka. After modeling these alternatives, he prepared water quality performance estimates for the proposed modifications to determine the most cost-effective alternative for future implementation.

Middle St. Johns River Water Quality and Restoration Engineering Design Services, SJRWMD (Budget - \$49,779): Mr. Keller provided senior engineering support for concept development, water quality performance estimates, and cost estimates for a project to develop conceptual designs for wetland-based treatment systems for the Econlockhatchee River and Lake Jesup. Both conceptual plans included evaluations of enhanced phosphorus removal techniques and use of submerged aquatic vegetation (SAV) for wetland polishing.

Sweetwater Branch/Paynes Prairie Sheetflow Restoration Project, Gainesville Regional Utilities, Gainesville, FL (Budget - \$633,000 +/-): Mr. Keller provided engineering design assistance and water quality performance modeling for the 125-acre Sweetwater Branch/Paynes Prairie Sheetflow Restoration Project in Gainesville, FL. Project elements include in-line trash and sediment removal facilities, three constructed wetland cells to cleanse a combined flow of stormwater runoff and reclaimed water, and a distribution channel to spread water across a mile-wide portion of Paynes Prairie. Mr. Keller led wetland planting plan development and planting oversight during construction; provided required system reporting for compliance and water quality/quantity treatment estimates based on field-collected monitoring data; and worked on mitigation data collection to support United States Army Corps of Engineers wetland permitting. Mr. Keller also completed data analysis to support a Water Quality Based Effluent Limitation that demonstrates attainment of the Total Maximum Daily Load for Alachua Sink.

Infiltrating Wetlands Demonstration Project, Gainesville Regional Utilities, Gainesville, FL (Budget - \$657,000): Mr. Keller designed a multi-phase project for Gainesville Regional Utilities to demonstrate the feasibility of using constructed treatment wetlands as a means of further polishing reclaimed water while providing a reuse alternative that recharges groundwater levels. The Infiltrating Wetlands Demonstration Project was implemented to compare the denitrification capacity and infiltration rates in wetlands dominated by emergent vegetation, open water ponds, and traditional rapid infiltration basins (RIBs). Mr. Keller provided design guidance and construction oversight for the project and conducted monitoring and data analysis at the Kanapaha Middle School (KMS) and the Kanapaha Water Reclamation Facility (KWRF).

Ron Clarke, M.S.

Vice President and Senior Scientist



Education

M.S., Soil and Water Science, University of Florida, 1995

B.S., Soil and Water Science, University of Florida, 1992

Experience

WSI: 2000-present
(Gainesville, FL)

CH2M HILL: 1995-2000

Certifications

DEP SOPs for Water Sampling & Meter Testing

Stream Condition and Habitat Assessment Training

SCUBA Certified

Expertise

Water Quality Monitoring

Biological Monitoring

Data Management

Statistical Analysis

Mr. Clarke is an environmental scientist with over 22 years of experience in a number of environmental disciplines, including water quality and biological monitoring, spring ecology, water quality treatment, data analysis and interpretation, database design and management, and environmental permitting.

Representative Project Experience

Lower Withlacoochee River Environmental Study, Withlacoochee Aquatic Restoration, Inc., Citrus and Levy Counties, FL (Budget - \$78,444): Mr. Clarke collected water quality and sediment samples and field parameters for analysis by the FDEP state laboratory according to FDEP requirements. Sampling spanned two years and has included a wide variety of hydrologic conditions for stations with variable water quality on the Withlacoochee River including spring dominated flow, tidally influenced flows, and high flow conditions. Mr. Clarke was the lead for all sampling, data analysis, and QA/QC. This project included collaboration with SWFWMD staff who provided sampling assistance. Data collection included field parameters, water quality sonde deployments, water quality, light attenuation, secchi depths, sediment, bathymetry, flows, as well as visual surveys of macrofauna, human use, and shoreline bank protections.

Telogia Power Treatment Wetland, PurEnergy, LLC., Telogia, FL (Budget - \$100,200): Mr. Clarke developed a database and water balance to track wetland hydrology. Led water quality sampling efforts to support development of a Site Specific Alternative Criteria (SSAC) for dissolved oxygen, specific conductance, total nitrogen, and total phosphorus. Sample collection included water quality, field parameters, levels, and flows over a 24-month period. This project also included extensive data analysis to develop flow rating curves, recommended alternative water quality criteria, and mass balances for the receiving waters.

JEA Greenland Water Reclamation Facility Feasibility Study, Constantine Engineering, Jacksonville, FL (Budget - \$49,152): Mr. Clarke implemented a sampling plan to support the evaluation of a new treated effluent discharge. This work included flow monitoring, vegetation monitoring, water level monitoring, water quality sampling, data analysis, and QA/QC to assess the impact of a new discharge to a small creek and associated floodplain.

Sweetwater Branch/Paynes Prairie Wetland Monitoring, Gainesville Regional Utilities, Gainesville, FL (Budget - \$44,900): Mr. Clarke led water quality sample and hydrologic data collection for compliance purposes at the Sweetwater Wetland. Developed and maintained water and mass balances for the wetland to support compliance and reporting requirements. Mr. Clarke also led field efforts to collect vegetation data to support the wetland mitigation monitoring. Additional sampling tasks include water quality sampling to develop removal estimates and a higher frequency phosphorus sampling regime to evaluate wetland performance for phosphorus. These efforts included report development, data analysis, and QA/QC.

Scott L. Knight, P.E.

Vice President and Engineer



Education

Ph.D., Environmental Engineering and Sciences, University of Florida, 2015

M.E., Environmental Engineering, University of Florida, 2005

B.S., Environmental Engineering, University of Florida

Professional Registrations

PE FL/Civil, No. 72207

PE CO/Civil, No. 43823

Qualified Stormwater Management Inspector – #31268

DEP SOPs for Water Sampling & Meter Testing

SCUBA Certified

Experience

WSI: 2010-present
(Gainesville, FL)

City of Aurora, CO: 2008-10

Jones Edmunds: 2006-2007

Expertise

Wetland Design

Hydrologic and Hydraulic Modeling

Water Conservation

Dr. Knight is a water resources engineer with more than 12 years of experience in the fields of environmental and water resources engineering both in consulting and municipal government. His experience includes environmental work including biological assessments, water quality sampling, and water quality modeling. His water resources experience includes hydrologic and hydraulic modeling, stream flow measurement, and consumptive use modeling.

Representative Project Experience

Middle St. Johns River Water Quality and Restoration Engineering Design Services, SJRWMD, Palatka, FL (Budget - \$49,779): Dr. Knight assisted with preliminary field data collection and the development of conceptual designs for two treatment wetlands in the Middle St. John's River Basin. Proposed project sites included the Econ-Yarborough tract and the Lake Cameron Ranch property adjacent to Lake Jesup. Both conceptual plans were prepared to develop preliminary estimates of the cost-effectiveness of reducing phosphorus loads in watersheds that contribute flow to the St. John's River.

Three Sisters Stormwater Treatment Wetland (W471), SWFWMD, Crystal River, FL (Budget - \$65,000 +/-): Dr. Knight served as an assistant professional engineer on the Three Sisters Treatment Wetland project for the Southwest Florida Water Management District (SWFWMD). His role included alternatives analysis to develop an optimal wetland configuration. He also completed the hydrologic and hydraulic modeling for the design which included updating and adding higher resolution information to an existing watershed management model for Crystal River to evaluate the impact of the treatment wetland project on floodplain elevations in the watershed.

Treatment Wetland Feasibility Study (P301), SWFWMD (Budget - \$77,702): Dr. Knight was WSI's project engineer for a District-wide feasibility study to determine the potential nutrient removal and aquifer recharge benefits of converting existing wastewater land application sites to groundwater recharge wetlands. WSI screened sixteen facilities for suitability, fully-evaluated the feasibility for ten facilities, and prepared a detailed conceptual design for the top-ranked facility. This project also included interfacing with the utilities and development of presentations to two utilities about projects at their facilities.

Bivens Arm Nature Park Conceptual Marsh Restoration Plan, City of Gainesville, Gainesville, FL (Budget - \$36,700): Dr. Knight worked as a project engineer on a conceptual restoration plan for the Bivens Arm Nature Park in Gainesville. This project evaluated restoration of three historic marshes that were impacted by channelization of East Tumblin Creek. Components of this project included wetland evaluation, engineering survey, HEC-RAS modeling, and conceptual restoration plans for the onsite wetland features. Conceptual restoration plans were developed for the wetland features through a combination of sediment removal, vegetation control and planting, and hydrologic modification using in-stream ditch blocks and overflow structures. This project also had estimated costs developed for each of the proposed restoration projects.

AREAS OF SPECIALIZATION

Air Resource Management; Air Pollution Source Permitting; Air Quality Modeling and Impact Analysis; Control Strategy Development; Environmental Impact Assessment; Emission Measurements; Published Articles, Proprietary and Expert Reports in the Areas of Air Resource Management, Resource Utilization, Industrial Air Pollution Control, and Air Quality Surveys

EXPERIENCE

Principal, Koogler and Associates, Inc. (and Sholtes and Koogler Environmental Consultants), Gainesville, Florida, 1974 to present. Typical project experience includes:

- Air Pollution Source Permitting including State Permit Applications, PSD Applications, RACT Applications, and Title V Applications. Permitting has involved Assessment of Control Technology (BACT, RACT, LAER, MACT), Process Modifications, Air Quality Issues and Regulatory Issues. Project Advisor and Project Manager.
- Air Quality Dispersion Studies for Micro, Meso and Macro Scale Transport. Dispersion and Plume Behavior Evaluation in the vicinity of buildings, Air Quality Modeling for permitting (Air Quality Standards and PSD Increment Consumption), Long-range Pollutant Transport Modeling and Accidental Release Modeling. Project Advisor and Project Manager.
- Air Pollutant Emissions Measurements for Compliance and Process Evaluation in Kraft Pulp Mills, Phosphates Fertilizer Plants, Municipal Incinerators, Sugar Mills, Cement Plants, Earth Mineral Processing Plants, Hazardous Waste Fuel Fired Sources, Power Boilers, Asphalt Plants, Acid Plants, Smelters and others. Project Advisor or Project Manager.
- Air Quality Monitoring Studies including Networks to Monitor Ambient Levels of Particulate Matter, Lead, SO₂, NO_x, H₂S CO, Mercaptans, Oxidants, Sulfation Rates, Soiling, Corrosion Rates and Hydrocarbons. Project Advisor or Project Manager.
- Meteorological Studies, Air Pollutant Impact Litigation, Inspection Manual Preparation, Source and Indoor Air Sampling Method Evaluation and Development. Project Advisor and Project Manager.
- Environmental Impact Studies for Phosphate Fertilizer Plants, Exploratory Petroleum Drilling, Fossil and Nuclear Power Plant Siting and Sulfur Recovery Facilities. Project Advisor.

EDUCATION

Ph.D. 1966 Environmental Engineering, University of Florida, Gainesville, FL
M.E. 1963 Environmental Engineering (Radiological Health) University of Florida, Gainesville, FL
B.C.E. 1960 Civil Engineering, University of Akron, Akron, OH

MONIQUE HEATHCOCK, PE, LEED AP

Director of Transportation Engineering / Engineer
(386) 518-5130 · moniqueh@chw-inc.com

ROLE

Ms. Monique Heathcock, PE, LEED AP, Director of Engineering, has civil engineering design expertise in the areas of site development, roadways, maintenance of traffic, and utility design and coordination including but not limited to water distribution and wastewater collection.

SPECIALIZATIONS

- Project Management
- Roadway Design
- Site Layout
- Landscape and Irrigation Design
- Roadway Design
- Maintenance of Traffic Certified
- Water Distribution
- Wastewater Collection

EXPERIENCE

Alachua County Fairgrounds Master Plan, Alachua County, FL
Resource Recovery Park, FL
UF Indoor Practice Facility, Gainesville, FL
UF Gale Lemerand Drive Resurfacing, Gainesville, FL
CRA 1st Avenue, City of Gainesville, FL
CRA South Main Street, City of Gainesville, FL
San Felasco Parkway, City of Alachua, FL
Legacy Park Master Plan, Phases I + II, City of Alachua, FL

EDUCATION

B.S., Bachelor of Science in Civil Engineering, Penn State University, 1993

PROFESSIONAL LICENSE / CERTIFICATIONS

Professional Engineer – Florida 54352, 1999
LEED Accredited Professional Certification – 2009

ACTIVITIES

Florida Engineering Society – North Central Florida Chapter, 2003-present, Secretary, 2010-present
MathCounts, Local Competition, 2005-present, Planning, Funding and Event Volunteer

AARON HICKMAN, PSM

Director of Surveying + Mapping / Surveyor
(386) 518-5132 · aaronh@chw-inc.com

ROLE

Mr. Hickman serves as a Director of Surveying, with responsibilities that include managing project schedule and budget, field crew scheduling and deployment, performing record research, data analysis, computations, boundary decisions, subdivision layout, and computer aided design and drafting. Aaron is experienced and available to assist with field work collecting data and setting corners on boundary, topographic and as-built surveys using total stations, electronic data collection devices, and survey quality GPS systems if a licensed PSM is needed on-site.

SPECIALIZATIONS

- Project Development and Management
- Large and Small Acreage Boundary Surveys
- Topographic Surveys
- As-Built Surveys
- ALTA Surveys
- Record and Title Research
- Survey Data Analysis
- Subdivision Design and Layout

EXPERIENCE

Alachua County Fairgrounds, Alachua County, FL
Resource Recovery Park, Alachua County, FL
CRA South Main Street Improvements, Gainesville, FL
CRA 1st Avenue Streetscape, Gainesville, FL
Innovation Square SW 3rd Avenue + 9th Street, Gainesville, FL
San Felasco Parkway, City of Alachua, FL
Legacy Park Master Plan, Phases I + II, City of Alachua, FL
Marion County Stormwater Improvements, Ocala, FL
Carlton Cemetery Road, Taylor County, FL

EDUCATION

B.S., Bachelor of Science in Geography, University of Florida, 2008

PROFESSIONAL LICENSE / CERTIFICATIONS

Professional Surveyor and Mapper - Florida 6791, 2010

ACTIVITIES

Florida Society of Surveying and Mapping, Member 2010 - Present

CRAIG BRASHIER, AICP

Director of Planning

(386) 518-5113 · craigb@chw-inc.com

ROLE

Craig Brashier is certified by the American Institute of Certified Planners and has over seventeen (17) years of experience in planning and project management. Craig focuses on comprehensive and land use planning, zoning, entitlements, and due diligence analyses. His breadth of experience ranges from advising clients and local governments on Comprehensive Plan text and map amendments to large-scale planning efforts with extra-jurisdictional and regional impacts. Craig works with large- and small-scale commercial property owners, local governments, the general public, and stakeholders to promote economic growth through community reinvestment. He has overseen projects throughout North-Central Florida, and has extensive experience working with federal, state, and local agencies, including the State of Florida Department of Economic Opportunity, county and City governments, the Florida Department of Transportation, and the Florida Department of Environmental Protection.

SPECIALIZATIONS

- Project Development and Management
- Planning & Land Use Analyses
- Development of Regional Impact (DRI) / Notice of Proposed Change (NOPC) Preparation
- Comprehensive Planning
- Development Order and Development Agreement Preparation and Negotiation
- Identifying Development Potential & Constraints through Due Diligence Reports
- Rezoning and Planned Development Preparation
- Variance Requests and Permitting
- Special Use / Special Exception Permitting
- Expert Witness / Testimony for Quasi-Judicial Proceedings

EXPERIENCE

Alachua County Fairgrounds, Alachua County, FL

Alachua County Resource Recovery Park Master Plan, Gainesville, FL

Agri-tech Master Plan, City of Newberry, FL

Legacy Park Master Plan, City of Alachua, FL

Comprehensive Plan Update, City of Newberry, FL

Downtown Vision Plan for Historic Johnson Street Area, City of Hawthorne, FL

Long Range Transportation Planning, City of Alachua, FL

EDUCATION

B.A., University of Memphis, 2000

M.S. in Planning, University of Tennessee, 2002

PROFESSIONAL LICENSE / CERTIFICATIONS

American Institute of Certified Planners – 159493, 2005

ACTIVITIES

American Institute of Certified Planners (2005 – present)

American Planning Association - Florida Chapter, San Felasco Section (2005-present)

J. CHRIS MICKLER, P.E.
Staff Engineer III
Experience 23 years, 3 years with ECT
Education

M.E., Environmental Engineering—University of Florida, 1995
B.S., Mechanical Engineering—University of Florida, 1992

Registrations

Professional Engineer, Florida, No. 55542
Certified Stormwater Inspector, Florida, No. 19601
OSHA HAZWOPER 40-hour and 8-hour refresher training

Mr. Mickler has more than 20 years' experience in the environmental consulting field, specializing in Phase I ESAs, water resources and contamination assessment and cleanup. Mr. Mickler has earned both a bachelor's degree in mechanical engineering and master's degree in environmental engineering. He has performed Phase I and Phase II ESAs on hundreds of sites throughout the southeastern United States and has prepared and implemented remedial action plans for petroleum and non-petroleum contaminated sites. He has prepared models for well field consumptive use permits, land application wastewater disposal systems, and stormwater ponds using groundwater modelling software, including POND5, MODRET, SEEP, and MODFLOW. Mr. Mickler has prepared surface water discharge models using CORMIX, Visual PLUMES and DFLOW in support of industrial wastewater discharge permits as well as completed industrial and domestic wastewater permit application packages for submittal to FDEP. Mr. Mickler has prepared National Pollutant Discharge Elimination System (NPDES) permit application submittals, stormwater compliance submittals, and stormwater pollution prevention plans (SWPPPs) for industrial, governmental, commercial, and residential facilities.

In the field of assessment and remediation, Mr. Mickler has performed Phase I and Phase II site assessments throughout the southeastern United States and designed and implemented remedial action strategies using innovative technologies, including *in situ* chemical oxidation and enhanced bioremediation at locations throughout Florida.

Staff Engineer, Lake City Wastewater St. Margarets Wastewater Treatment Plant (WWTP) Improvements, City of Lake City, Florida—Oversaw structural design analysis for existing aerobic digester upgrade in support of the installation of new blowers at the St. Margarets WWTP. Prepared biosolids permit application package and nutrient management plan for disposal of biosolids from the facility.

Staff Engineer; Phase II/Phase III, Post Office Tire Service, Florida Department of Environmental Protection (FDEP)—Performed soil borings and well installation at the facility in Ocala, Florida. Sampled soil and groundwater to horizontally and vertically delineate a groundwater plume extending more than 50 feet below land surface. Project is still in the assessment phase and will go forward with Phase IV remediation upon completion.

AREAS OF SPECIALIZATION

Groundwater Modeling & Hydrogeology, Water Use & NPDES Permitting, Certified Stormwater Inspection Services, Phase I/II Environmental Site Assessments, SWPPPs, SPCC Plans, Remediation System Design & Installation

Staff Engineer; Phase IV, Sunshine Food Mart 260, FDEP—Prepared remedial action plan (RAP) utilizing catalyzed peroxide injection to remediate a shallow petroleum groundwater plume located at an active gas station in Macclenny, Florida. The selected technology utilizes a solar-powered metering pump to inject peroxide for quiet, cost-effective operation.

Staff Engineer; Phase II/Phase III, Brooks Buck & Does, FDEP—Performed soil borings and groundwater sampling. Sampled soil and groundwater to horizontally and vertically delineate an excessively impacted groundwater plume extending offsite onto an adjacent parcel in Umatilla, Florida. Project is still in the assessment phase and will go forward with Phase IV remediation upon completion.

Staff Engineer; Phase IV, Affordable Auto Repair, FDEP—Prepared RAP and implemented utilizing air sparge/soil vapor extraction to remediate a shallow petroleum groundwater plume located at a former auto repair facility in Raiford, Florida. The selected technology was approved as a pilot test plan to allow for fast-track implementation and remediation. The remediation has been completed and the project is in post active remediation monitoring.

Staff Engineer; Site Certification Application (SCA)/ National Pollutant Discharge Elimination System (NPDES) Permit Application, Seminole Electric Cooperative, Inc.—Prepared the water resources portions of the SCA and NPDES permit application package for a proposed natural gas combined-cycle power plant expansion in Palatka, Florida. Project included data analysis for flow rate and chemical composition of receiving water body and the

proposed discharge waste streams, and preparing a CORMIX model in support of permitting mixing zones for specific analytes, as needed.

Staff Engineer/Project Manager; Okeechobee Dewatering Project, MAS Environmental, LLC—Responsible for preparing dewatering plan and groundwater model in support of redevelopment of a commercial property in Okeechobee, Florida. Concerns over former site contamination migrating toward the construction area resulted in preparation of a model, using POND software, to help design both the dewatering system and a groundwater recharge zone between the proposed construction zone and the identified area of contamination to minimize the risk of contaminant migration.

Staff Engineer/Project Manager; Miami Pipeline Dewatering Project, MAS Environmental, LLC—Responsible for preparing dewatering plan and groundwater model in support of repairing a leaking aviation fuel pipeline in Miami-Dade County, Florida. Dewatering plan accounted for highly permeable underlying limestone and the requirement for hydraulic isolation between the construction area and underlying water table.

Senior Engineer; Phase IV, Alvarez Dairy—Prepared quarterly monitoring reports and performed site assessment services. Prepared RAP for submittal to the City of Jacksonville, recommending utilization of top-down flooding technique with an innovative technology-approved chemical. Implemented RAP and obtained site closure for the documented petroleum release.

Senior Engineer; Wastewater Treatment Facility Treatment Wetland, City of Lake City, Florida—Responsible for performing field tests and preparing a surface water/groundwater interaction model to predict the allowable effluent loading rate to a highly permeable Floridan aquifer recharge zone. The model was prepared in support of a treatment wetland design that is being used to replace a pine sprayfield for wastewater effluent disposal and improve water quality infiltrating to the Floridan aquifer. Designed subsurface bioreactor filter to provide additional nutrient reduction in subsurface lateral groundwater flow upgradient of the recharge zone.

Principal Engineer/Project Manager; Dewatering Permit Application, Cade Museum—Responsible for preparing a dewatering permit application package and groundwater model for submittal to St. Johns River Water Management District (SJRWMD) and coordinating groundwater disposal with Gainesville Regional Utilities. Dewatering model was prepared using POND software to predict potential plume migration caused by dewatering the Cade property from known groundwater impacts on the adjoining Depot Park site in Gainesville, Florida.

Senior Engineer/Project Manager; Groundwater Contaminant Transport Model, Dogwood Park—

Responsible for preparing a groundwater model to predict the potential impact resulting from two proposed stormwater ponds on a known groundwater plume originating from an onsite former landfill in Gainesville, Florida. The model was specifically prepared to predict if the proposed ponds would contribute to offsite migration of the groundwater plume and whether offsite properties would be impacted. The model was submitted to Alachua County for review and acceptance.

Senior Engineer; Groundwater Model and Construction Oversight, Amtrak—Performed field tests and prepared a groundwater model, calculations, and application package to predict the potential impact resulting from a dewatering system on a site with known groundwater contamination that was under a FDEP restrictive covenant. The model was prepared to support construction of a new wastewater treatment plant and lift station in Sanford, Florida. The model and application package were submitted to, and approved by, the FDEP and the SJRWMD. Oversaw installation of the dewatering system and other elements of construction to confirm conformance with plans and specifications.

Senior Engineer/Project Manager; Wastewater Disposal Groundwater Model, St. Johns County School Board—Performed field tests and prepared groundwater model using MODFLOW to simulate subsurface hydraulic loading of an infiltration basin at School J in Hastings, Florida. The model was in support of permitting a wastewater treatment plant to be located at the subject high school.

Senior Engineer/Project Manager; Effluent Disposal Pond Design, Steinhatchee Wastewater Treatment Plant—Prepared percolation pond model and basis of design report for proposed expansion of wastewater effluent disposal system in Steinhatchee, Florida, using POND software.

Senior Engineer/Project Manager; Effluent Disposal Rapid Infiltration Basin Design, Mid-Clay Wastewater Treatment Plant—Prepared POND mounding analysis model for rapid infiltration basin simulation of a multiple cell system for a proposed expansion of the subject facility in Clay County, Florida.

Senior Engineer; Land Application Effluent Disposal System Expansion, OTO Dania Beach Wastewater Treatment Plant—Prepared mounding analysis and surface water/groundwater interaction model to support expansion of an existing wastewater treatment land application effluent disposal system in Dania Beach, Florida.

Senior Engineer; Effluent Disposal Pond Design, Danone Bottling Plant—Prepared geotechnical site investigation including double ring infiltrometer testing, vertical and horizontal hydraulic conductivity testing, and identified site lithology in High Springs, Florida. Prepared POND and MODFLOW models and designed rapid infiltration basin for industrial wastewater effluent discharge resulting from the onsite reverse osmosis water treatment facility.

DAVID W. FLAKE

Chief Technician I

Experience 18.2 years, 14.2 years with ECT Registrations

OSHA HAZWOPER 40-hour and 8-hour refresher training

EPA 8-hour hazardous waste site supervisor training

Certified, Mine Safety and Health Act training

Certified, Excavation Competent Person training

Asbestos Survey and Mechanical (Inspector) training

Authorized Gopher Tortoise Agent, No. GTA-16-00061B

Mr. Flake has more than 14 years of experience in the environmental field. He has extensive knowledge of Florida's standard operating procedures for water quality sampling and is experienced on a Trimble GPS unit. Mr. Flake also has a working knowledge and understanding of remediation systems for soil and groundwater treatment. He is well-versed in Occupational Safety and Health Administration (OSHA) regulations for both mining and construction.

Technician; Wastewater Sampling, North Florida

Regional Medical Center—Responsible for semi-annual sampling of facilities discharged wastewater.

Authorized Gopher Tortoise Agent; Survey and Removal of Gopher Tortoises, Tampa Electric Company (TECO)—Participated in the 100 percent survey for gopher tortoises and led an excavation team to remove tortoises.

Technician/Assistant Team Leader/GPS Operator; Seacoast Environmental Services, TECO—Assisted with locating threatened and endangered (T/E) species and operating a Trimble device to delineate wetlands.

Technician/Field Team Leader; U.S. Fertilizer, Confidential Client—Performed groundwater screening and laboratory sampling.

Technician; Fume Hood Vent Testing, Florida Department of Transportation—Inspected and tested fume hood vents at the materials testing site in Gainesville, Florida.

Technician; Water Quality Sampling, Numerous Clients—Responsible for surface water sampling at various sites in Florida.

Technician; Water Quality Sampling, Georgia-Pacific—Participated in annual water quality sampling on streams (St. Johns River and Rice Creek) in and around the Georgia-Pacific plant in Putnam County, Florida.

Technician/Team Leader; Groundwater Sampling, Georgia-Pacific—Participated in a site assessment and excavation of the No. 6 fuel oil spill area at the site in Putnam County, Florida. Collected groundwater samples to determine extent of groundwater contamination.

Technician/Field Team Leader; Preapproval Program, Florida Department of Environmental Protection (FDEP)—Performed soil and groundwater screening and

AREAS OF SPECIALIZATION

Groundwater Sampling, Soil Sampling, Surface Water Sampling, Site Investigations, Field Activity Supervision, Remediation System Construction Supervision, Trimble GPS Operator, Asbestos Surveys

laboratory sampling; conducted operation and maintenance of soil and groundwater treatment systems at petroleum-contaminated sites. Provided construction supervision of remediation system installations. Other duties included land surveying, site map development, and field equipment maintenance.

Technician/Field Team Leader; Field Activities, The Pantry, Inc.—Performed free-product recovery activities and groundwater sampling activities for multiple petroleum sites in southeastern Georgia. Additional activities included oversight of monitoring well installation activities and field screening of soil samples, as well as oversight of well abandonment activities and short-term groundwater remediation activities.

Technician; Initial Remedial Action (IRA), City of Gainesville/FDEP—Assisted with IRA activities associated with a coal tar and petroleum plume at Poole Roofing/Akira Wood and former MCB Oil Company sites in Gainesville, Florida. Activities included oversight of installation and operation of well point recovery system, excavation and disposal of 1,900 tons of impacted soils. Additional responsibilities included health and safety monitoring of site personnel, soil sample collection for laboratory analysis, and air monitoring activities.

Technician/Assistant Team Leader/GPS Operator; Natural Gas Pipeline, Confidential Clients—Assisted with locating threatened and endangered species and operating a Trimble device for delineation of wetlands for the 127-mile natural gas pipeline project in Central Florida. Additional responsibilities included health and safety monitoring, site map development, and acquiring land owner permission for team's daily activities.

Technician/Assistant Team Leader/GPS Operator; Spectra Energy/TRC Environmental, Inc.—Assisted with

locating T/E species and operating a Trimble device for delineation of wetlands for the 500-mil natural gas pipeline project through Florida, Georgia, and Alabama. Additional responsibilities included health and safety monitoring, site map development, and acquiring land owner permission for team's daily activities.

Michael J. Wightman, P.G.
President, Principal Geophysicist, GeoView, Inc.



AREAS OF SPECIALIZATION

- Management of Geophysical Investigations
- Karst Evaluation Studies Using Geophysical Methods
- Geophysical Investigations for Infrastructure Evaluation
- Environmental Geophysical Investigations
- Coastal and Island Hydrogeology

EDUCATION

1989	M.S., Hydrogeology/Geophysics University of South Florida
1986	B.A., Geology University of California, Santa Barbara
1980	B.A., Business Economics/Environmental Studies University of California, Santa Barbara

PROFESSIONAL CERTIFICATIONS AND LICENSES

Licensed Professional Geologist, Florida and California (FL #1423, CA #6500)
Certified Ground Penetrating Radar Operator
AGI Electrical Resistivity Imaging Certification
Stake University (Nationally Recognized Electronic Utility Locator Operator Certification)
Certified Pile Integrity Tester
Geophysical Well Logging and Imaging
OSHA-Certified Health and Safety, Hazardous Waste Operations, 40-Hour Course & Annual Updates

PROFESSIONAL HISTORY

Present	President and Co-Founder of GeoView, Inc.
1991 –5/31/2001	Vice-President, Senior Geophysicist/Operations Manager SDII Global Corporation
1988 - 1991	Staff Hydrogeologist--HSW Environmental Consultants, Inc.

PROFESSIONAL SUMMARY

Mr. Wightman's responsibilities at GeoView Inc. include the management and technical oversight of all geophysical investigations conducted by the firm. He has either managed or conducted geophysical investigations throughout the entire United States, Caribbean Basin and Central America. His duties include quality control oversight, project management and budgeting, employee supervision and training, design and implementation of geophysical investigations, data evaluation, numerical and analytical modeling of geophysical data. Mr. Wightman has either conducted or managed over 10,000 geophysical investigations concerned with environmental, geotechnical, geological, hydrogeological, infrastructure and construction-related projects. Mr. Wightman is an expert in the application of geophysical methods in terms of understanding karst-related conditions. Mr. Wightman has provided expert testimony, authored publications and delivered numerous presentations in regards to geophysical testing for a wide variety of applications.

Prior to co-founding GeoView, Mr. Wightman was the Senior Geophysicist and Operations Manager at SDII Global Corporation. While at SDII, his duties included the management of subsidence investigations which were related to insurance claims. For these investigations, he integrated the results of geophysical, geo-technical and

structural studies to determine if damage to residential structures was related to sinkhole activity. Prior to joining SDII, Mr. Wightman was employed with HSW Environmental Consultants, Inc., where he performed numerous contamination assessment investigations throughout Florida. His responsibilities included project management, geophysical investigations, design of groundwater monitoring systems, data evaluation, groundwater modeling, and report preparation. While working on his M.S. degree in Hydrogeology at the University of South Florida, he was involved as a principal investigator on several coastal and island aquifer research projects. Results from his research have been presented at two international conferences, three Florida state-wide conferences, and have appeared in several publications. He is a Professional Geologist in Florida and California.

Professional Organizations / Affiliations

The Environmental & Engineering Geophysical Society (EEGS)
Southeastern Geological Society
Society for Exploration Geophysics
Florida Geological Society
Florida Association of Environmental Professionals
Florida Association of Professional Geologists
Board of Directors-USF Geology Alumni Association
USF Geology Professional Advisory Committee

Publications

- Zisman, E.D., Wightman, M.J., Kestner, J, Sinkhole Investigation Methods—the Next Step After SP No. 57, 2011 Annual Conference on Sinkholes and the Engineering and Environmental Impacts of Karst, ASCE.
- M.J. Wightman, Zisman, E.D., 2008, The Selection and Application of Geophysical Test Methods in West Central Florida Karst Regions, Conference Proceedings, 2005 Annual Conference on Sinkholes and the Engineering and Environmental Impacts of Karst, ASCE.
- Wightman, M.J.; Zisman, E.D., 2005. The Effectiveness of GPR In Sinkhole Investigations. Published in Conference Proceedings of 2005 Annual Conference Sinkholes and the Engineering and Environmental Impacts of Karst, ASCE.
- Wightman, M. J., 1996. Finding the Depth to Saltwater -- Surficial Geophysical Methods Offer an Answer, Florida Specifier, February Edition.
- Wightman, Michael J., The Use of Ground Penetrating Radar in Civil Engineering and Infrastructure Rehabilitation Projects. The South Carolina Engineer, Winter, 1994.
- Vacher, H. L., Wightman, M. J., and Stewart, M. T., 1991. Hydrology of Meteoric Diagenesis: Effect of Pleistocene Stratigraphy on Fresh-Water Lenses of Big Pine Key, Florida in Fletcher, C. H., and Wehmler, J. F. (eds.). Quaternary Coasts of the United States: Lacustrine and Marine Systems. SEPM Special Publication.
- Wallis, T. N., Vacher, H. L., Stewart, M. T., Hearty, P. J., Wightman, M. J., and Cant, R. V., 1989. Holocene Strandplain Aquifer at Ocean Bight, Great Exuma Island, Bahamas. Geological Society of America Abstracts with Programs, 21:242.

Stephen R. Scruggs, P.G.

Senior Geophysicist, GeoView, Inc.



AREAS OF SPECIALIZATION

- Geophysical and Infrastructure Evaluation Studies
- Utility Designation Studies
- Geophysical Data Evaluation
- Karst Evaluations/Studies
- Field Mapping and Surveying
- Archaeological Surveys

EDUCATION

2000	M.S., Geology, emphasis on Geophysics and Hydrogeology University of South Florida,
1997	B.S., Geology University of Florida

PROFESSIONAL HISTORY

2004 - Present	GeoView, Inc, St. Petersburg, Florida Senior Geophysicist
2000 -2004	SDII Global Corporation, Largo, Florida Geophysicist
1999 – 2000	University of South Florida, Tampa, Florida Graduate Teaching Assistant

PROFESSIONAL CERTIFICATIONS AND LICENSES

Professional Geologist, Florida, # 2470
Certificate of Hydrogeology, University of South Florida
Certificate of Environmental Studies, University of Florida
OSHA-Certified Health and Safety for Hazardous Waste Operations, 40-Hour Course and Annual Updates

PROFESSIONAL ORGANIZATIONS

The Environmental & Engineering Geophysical Society
Society for Exploration Geophysics
Florida Association of Professional Geologists

PROFESSIONAL SUMMARY

As a senior level project manager for GeoView, Mr. Scruggs is responsible for performance and management of high-level, multi-method geophysical investigations. His primary duties include field project management, data analysis, report preparation, and personnel supervision and training. He is also the Office Manager for the GeoView office in Jacksonville, Florida. He has conducted geophysical investigations throughout the United State and the Caribbean Region and has served as Project Manager for national and international geophysical investigations, sinkhole investigations, utility and underground storage tanks locating, geological boundaries mapping, buried debris delineation, structural investigations (e.g., bridge deck, rebar evaluations, cellular tower foundation surveys).

REPRESENTATIVE PROJECT EXPERIENCE

Geotechnical (Karst and General Geology)

South Riding Point Petroleum Storage Facility, Grand Bahamas Island, Bahamas: Electromagnetics (EM) and multi-electrode resistivity (ERI) imaging investigations conducted to determine presence of voids and areas of relatively weak bedrock at proposed locations for petroleum storage tanks.

Multiple Residential and Commercial Building Sites, throughout Florida: Ground penetrating radar (GPR) and ERI imaging investigations conducted as part of geotechnical site investigations to determine presence of karst (i.e., sinkhole) features for insurance subsidence claims and/or as part of predevelopment geotechnical site investigations; performed at hundreds of sites and for multiple clients.

Future Sysco Distribution Center, Alachua, Florida: ERI survey across the footprint of a planned warehouse building conducted to determine presence of karst features and assist in planning scope and location for soils stabilization program; used two-dimensional and three-dimensional of resistivity data analysis.

Future Location of Nestle Waters Facility, Madison County, Florida: GPR study using integrated, differentially corrected GPS to determine location of karst features at proposed location for a water bottling facility; marked apparent centers of the karst features identified for future testing.

Environmental Projects

Knoxville Glove Factory, Knoxville, Tennessee: Time-domain electromagnetic (TDEM), GPR, and electronic utility locator surveys to establish presence and location of buried underground storage tanks (USTs), debris, and abandoned pipelines.

Unexploded Ordnance (UXO) Study, Historic WWII Practice Bombing Range, Jacksonville, Florida: Integrated TDEM and EM study to determine lateral extent and location of UXO locales across an area planned for planned residential development and to stake the UXO sites detected for future removal.

NASA Operations Facility Site, Titusville, Florida: GPR and TDEM surveys conducted to develop a high-resolution map showing locations of buried metallic and non-metallic debris in order to assist in removal of the debris prior to site redevelopment; used GPR to provide a 3-dimensional geometric display of features identified.

Utility Designation/Civil Engineering/Construction Projects

Utility Mapping Studies, Power Plants, Florida, New York, and Ohio: GPR and electronic utility locator surveys used in Level B subsurface utility mapping project at numerous power plant locations in three states.

Multiple Air Force Bases, throughout United States: GPR, electronic utility locator, and TDEM studies used to designate petroleum, oil, and lubricant lines at 12 Air Force bases located throughout the continental US.

Telecommunication Tower Foundation Studies, throughout United States: GPR, pile integrity testing, and soil probe studies used to determine three-dimensional configuration of foundations for telecommunication towers; performed at hundreds of tower sites located throughout the continental US.

Multiple Construction Sites, Florida: GPR and electromagnetics surveys conducted to designate rebar and post-tensioning cables within concrete slabs, prior to geotechnical coring studies; performed at over 50 sites throughout Florida.

Water Resources/Archeology Projects

Historic Civil War Graveyard Site, Pasco County, Florida: GPR survey to assess presence and location of buried graves; evaluated GPR data using 3-D analysis techniques

Aquifer Storage and Recovery (ASR) Projects, Pasco and Hernando Counties, Florida: Transient electromagnetics (TEM) and controlled source audio-frequency magnetotellurics (CSAMT) performed to map three-dimensional geometry of plumes of injected water as part of an ASR evaluation study.

4.0 ABILITY TO MEET TIME AND BUDGET CONSTRAINTS

The work required by Alachua County will not have an effect on our normal workload, and we will meet all time requirements of the County. The GSE team is currently capable of completing any project within time frames required by the County, without hardship on our firm, employees or subconsultants.

Most of GSE's current project work load consists of individual project assignments with approximately 1 month of backlog. These are individual contract task assignments that will end within one month. GSE is continually seeking additional contract opportunities to maintain, and where possible expand, our work load and backlog.

GSE also maintains excess labor capacity with part time as needed employment status individuals. In addition, the majority of our staff is "cross-trained" such that "spikes" in certain disciplines can be addressed through re-allocation of qualified staff from other underutilized divisions of the Company. This provides additional work load capacity flexibility, and further facilitates our ability to expand our available resources as needs arises.

The local presence of most GSE Team Members eliminates "out-of-town" related mobilization and per diem expenses.

GSE will work within County budgetary constraints through effective use of resources and equipment. Appropriate level personnel are assigned to the work effort consistent with the experience and training associated with individual tasks. As previously discussed, preliminary or alternate approaches to meet project expectations and goals are often developed, and will be presented to the County as options to provide for more cost effective reduced work effort.

GSE has proven time and time again that selecting the most qualified experienced innovative consultant is the most cost effective solution and option to address technical challenges. The GSE team is that consultant.

5.0 EFFECT OF PROJECT TEAM LOCATION ON PROJECT RESPONSE

The GSE Gainesville office is located on the west side of Gainesville, near the Interstate Highway I-75 and Archer Road (State Road No. 24) intersections. This strategic location provides timely access to all of Alachua County. GSE is ready and available to mobilize on an “emergency” or expedited basis depending on actual County needs and severity of the situation at hand. It is not unusual for us to immediately conduct a site visit and develop an approach with the County to address and often resolve what was considered to be an immediate crisis.

GSE team members (with the exception of GPI and GeoView) are Alachua County based and fully capable of providing the required environmental consulting services throughout the County, and equally committed to timely response. GPI and GeoView services are typically scheduled and anticipated and their lack of local presence does not affect project response. As a result, the net effect of the GSE Team location is rapid project response.

6.0 OTHER CONSIDERATIONS

Messrs. Nordqvist and Hill have extensive direct professional experience effectively managing and executing similar contracts. They both have lived and worked in the Alachua County area for 25+ years. As an SBE, GSE routinely identifies, pre-qualifies, retains and manages subconsultants to provide our clients with project specific specialized technical expertise. We are confident that we have retained and developed the most qualified and experienced team to exceed the expectations and requirements of the County in delivery of every service area outlined in the scope of this contract.

GSE currently holds the Alachua County Environmental Continuing Services contract. GSE has completed multiple projects in a professional, cost effective, and timely manner. This past proven experience, performance, and understanding to meet County expectations, procedures, and requirements is key to effectively delivering the requested services.

We approach your goals, values and expectations as minimum criteria for project execution and delivery. In our capacity as your environmental consultant, the GSE Team will serve as an extension to ACEPD staff; embracing open, ethical, and honest communication between all parties and stakeholders; delivering innovative cost effective alternatives and solutions consistent with County objectives, standards, and guidelines to the technical challenges of individual projects.

We are confident that through this RTP response we have demonstrated to the County that the GSE team is uniquely qualified to continue to provide the specified services. The GSE team shares one common goal – to exceed the expectations of the County in our delivery of services. This represents our objective and continued commitment to the Alachua County.

APPENDIX

SIGNATURE AND ACKNOWLEDGEMENT OF ADDENDUM FORM

RFP NUMBER: **20-171**

PROPOSAL OPENING DATE: **2:00 pm, Wednesday, April 24, 2019**

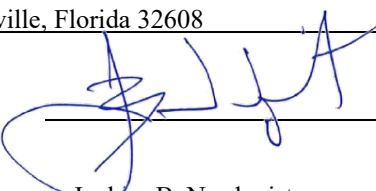
RE: **Annual Environmental Consulting Services**

PLACE OF RFP OPENING: Alachua County Division of Purchasing, 3rd Floor
County Administration Building
12 SE 1st Street
Gainesville, Florida 32601-6983

Acknowledge Receipt of Addendum(s) (if applicable circle):

#1 ☒ Yes No #2 ☒ Yes No #3 ☒ Yes No

Local Based Firms per Section 1.14, Check One Below	
X	I certify that my business is located in Alachua County and meets the criteria for location points as specified in Section 1.14.
	I am not a local based firm in Alachua County.

Proposer: Joakim B. Nordqvist Company: GSE Engineering & Consulting, Inc.Address: 5590 SW 64th Street, Suite BGainesville, Florida 32608Authorized Signature:  Title: CEOClearly Print Name: Joakim B. NordqvistPHONE: 352-377-3233 FAX: 352-377-0335 DATE: 4/24/2019Email Address: JNordqvist@gseengineering.com

SMALL BUSINESS ENTERPRISE (SBE) PROGRAM PARTICIPATION FORM

RFP NUMBER: 20-171: Annual Environmental Consulting Services

OPTION 1

I certify that our Company is an **Alachua County Certified Small Business Enterprise (SBE)** registered prior to the Bid opening.

Circle One: ☒ **Yes** (If yes, complete and sign the last page of this Exhibit)

No (If No, proceed to *Option 2.*)

OPTION 2

I certify that our Company **will perform ALL work** and that no subcontractors will be utilized for this bid.

Circle One: ☐ **Yes** (If yes, complete and sign the last page of this Exhibit)

No (If No, proceed to *Option 3.*)

RFP NUMBER: 20-171: Annual Environmental Consulting Services

OPTION 3

SBE Participation. I certify that our Company has contacted the **Alachua County's Certified SBEs** listed below. I state that the following information regarding SBE Subcontractors is true and correct to the best of my knowledge and belief.

Alachua County has adopted a 15% SBE participation goal and policies which encourage participation of Small Business Enterprises (SBE) in the provision of labor, time, supplies, services or construction items of any kind materials.

SBEs are located in the Alachua County Small Business Enterprise Directory, available at:

<http://smallbusdir.alachuacounty.us/> .

Subcontractor (any business entity holding a subcontract with the prime vendor) services are defined as, "a contract with another business entity that obtains labor, time, supplies, services or construction items of any kind."

Vendors submitting bids under this solicitation are to identify the intended SBE subcontractors. These SBEs have agreed to perform the work for **the total dollar value and percentage of the bid** set forth below.

If SBE subcontractors are not utilized and listed below or if option 1 or 2 was not chosen, you must proceed to Option 4 and document your Good Faith Effort.

SBE Name of Contractor	SBE Name of Contractor
Address	Address
Scope of Work to be Performed	Scope of Work to be Performed
\$ _____ % (Est \$ Value) (Est % of Total Bid)	\$ _____ % (Est \$ Value) (Est % of Total Bid)
SBE Name of Contractor	SBE Name of Contractor
Address	Address
Scope of Work to be Performed	Scope of Work to be Performed
\$ _____ % (Est \$ Value) (Est % of Total Bid)	\$ _____ % (Est \$ Value) (Est % of Total Bid)
SBE Name of Contractor	SBE Name of Contractor
Address	Address
Scope of Work to be Performed	Scope of Work to be Performed
\$ _____ % (Est \$ Value) (Est % of Total Bid)	\$ _____ % (Est \$ Value) (Est % of Total Bid)

RFP NUMBER: 20-171Annual Environmental Consulting Services

OPTION 4

SBE Good Faith Effort. To be considered responsive all Vendors **must have** SBE Participation or demonstrate a good faith effort to utilize SBE subcontractors. **If option 1, 2 or 3 was not chosen the Vendor must complete the section below substantiating compliance with good faith effort requirements.**

In accordance with Section 22.36, of the Alachua County Purchasing Code, I have solicited and received responses from the following Alachua County certified SBE companies. (The SBE vendor's response **MUST** be recorded in the section below.)

1	Name of SBE Company:	Date SBE Contacted
SBE Contact Name: Phone:		/ /
Must be completed by. SBE Response when contacted:		
2	Name of SBE Company:	Date SBE Contacted
SBE Contact Name: Phone:		/ /
Must be completed by. SBE Response when contacted:		
3	Name of SBE Company:	Date SBE Contacted
SBE Contact Name: Phone:		/ /
Must be completed by. SBE Response when contacted:		
4	Name of SBE Company:	Date SBE Contacted
SBE Contact Name: Phone:		/ /
Must be completed by. SBE Response when contacted:		
5	Name of SBE Company:	Date SBE Contacted
SBE Contact Name: Phone:		/ /
Must be completed by. SBE Response when contacted:		
6	Name of SBE Company:	Date SBE Contacted
SBE Contact Name: Phone:		/ /
Must be completed by. SBE Response when contacted:		
7	Name of SBE Company:	Date SBE Contacted
SBE Contact Name: Phone:		/ /
Must be completed by. SBE Response when contacted:		

RFP NUMBER: 20-171: Annual Environmental Consulting Services

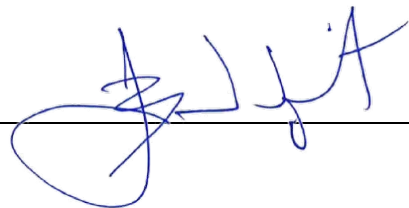
I as the undersigned Vendor certify that I have completed one of the option(s) below (Circle One):

OPTION 1**OPTION 2****OPTION 3****OPTION 4**

If you are unable to certify that, you have completed to the best of your knowledge and belief **OPTION 1, OPTION 2, OPTION 3 or OPTION 4**, Call (48 hours prior to RFP opening) the Division of Purchasing at 352.374.5202, for direction.

Vendor Name: GSE Engineering & Consulting, Inc. Date 4/24/2019

Signature

Title CEOPrinted Name: Joakim B. Nordqvist Title CEO

CERTIFIED SMALL BUSINESS ENTERPRISE POINTS REQUEST FORM FOR RFP's

The Technical Qualifications Evaluation phase of the Professional Services Evaluation Process assesses whether a Consultant is a certified Small Business Enterprise (SBEs) and provides for the allotting of points where the Consultant includes in their submittal a request for points allowed for Alachua County's Certified SBEs' participation in accordance with the options listed below and the necessary documentation to substantiate such is provided.

CERTIFIED SMALL BUSINESS ENTERPRISE (SBEs)- REQUEST FOR POINTS 15 POINT MAXIMUM																															
Points for Certified Small Participation is to be awarded using one of the options below:	Points Allowed	Points Requested	Points Assigned																												
Fifteen (15) points are awarded to the Consultant if the Consultant is a certified small business (per Alachua County's current SBE registry at the time set for receipt of submittals) and at least 51% of the job will be performed by the Consultant.	15 pts	15 pts																													
Eight (8) to thirteen (13) points are awarded if the Consultant commits to a significantly higher certified Small participation than the goal, based on the breakdown indicated below: Percentage of Certified Small Participation: <table> <tr> <th>at least</th><th>but less than</th><th colspan="2">Points to be Awarded</th></tr> <tr> <td>25%</td><td>30%</td><td>8</td><td>Points</td></tr> <tr> <td>30%</td><td>35%</td><td>9</td><td>Points</td></tr> <tr> <td>35%</td><td>40%</td><td>10</td><td>Points</td></tr> <tr> <td>40%</td><td>45%</td><td>11</td><td>Points</td></tr> <tr> <td>45%</td><td>50%</td><td>12</td><td>Points</td></tr> <tr> <td>50%</td><td>51%</td><td>13</td><td>Points</td></tr> </table>	at least	but less than	Points to be Awarded		25%	30%	8	Points	30%	35%	9	Points	35%	40%	10	Points	40%	45%	11	Points	45%	50%	12	Points	50%	51%	13	Points	8 pts - 13 pts		
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45%	50%	12	Points																												
50%	51%	13	Points																												
Five (5) points are awarded to a Consultant who has committed to meet the percentage participation goal of 15% as established by the Board of County Commissioners and the Consultant has listed the certified small business(es) and clearly stated the work and percentages of the job that those business(es) will perform.	5 pts																														

ALACHUA COUNTY GOVERNMENT MINIMUM WAGE (GMW) FORM

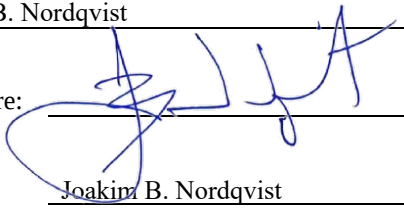
RFP 20-171: Annual Environmental Consulting Services

The undersigned certifies that all employees, contracted and subcontracted, completing services as part of this Bid/RFP are paid, and will continue to be paid, in accordance with Chapter 22, Article III of the Alachua County Code of Ordinance ("Wage Ordinance").

Please mark the appropriate box below that applies to how you pay your employees:

1.	☒ Employees involved with Alachua County projects are paid a minimum of \$13.00 hourly and are provided health benefits?
2.	☐ Employees involved with Alachua County projects are paid a minimum of \$15.04 hourly but are not provided health benefits?

Bidder: Joakim B. Nordqvist Company: GSE Engineering & Consulting, Inc.

Authorized Signature:  Title: CEO

Clearly Print Name: Joakim B. Nordqvist Phone: 352-377-3233

Email Address: JNordqvist@gseengineering.com

VOLUME OF PREVIOUS WORK SUMMARY

Volume of previous work will be determined by the actual fees rendered to the consultant by Alachua County. These fees are based on actual payments made to the consultant and are retrieved from the County's electronic accounting system. Only a portion of these fees 9 (Adjusted fee) will be considered based on the fiscal year payments and the factor listed below (see chart below).

SAMPLE

PERIOD	ACTUAL FEE	FACTOR	ADJUSTED FEE
Current and last year (Oct 1 – Sept 30)	\$ 31,753.00	X 1.0	\$ 31,753.00
Second year past (Oct 1 – Sept 30)	\$ 28,935.00	X .08	\$ 23,148.00
Third year past (Oct 1 - Sept 30)	\$ 22,431.00	X .06	\$ 13,458.00
TOTAL ADJUSTED FEE CONSIDERED			\$ 68,359.00

VOLUME OF PREVIOUS WORK - POINTS EARNED

The volume of previous work points earned are based on the adjusted fee (see chart below).

POINTS	ADJUSTED FEE (AF) *	YOUR REQUESTED AF POINTS
5	AF < 50,000	4 points
4	50,000 < AF < 100,000	
3	100,000 < AF < 200,000	
2	200,000 < AF < 300,000	
1	300,000 < AF < 400,000	
0	AF > 400,000	

PROPOSED SUBCONTRACTORS (NON-SMALL BUSINESS ENTERPRISE) FORM

RFP NUMBER: 20-171: Annual Environmental Consulting Services

This form is for all **Non-Small Business Enterprise subcontractors** being utilized on this project that **are not included on Exhibit B.**

Advanced Environmental Laboratories, Inc.	CHW Professional Consultants, Inc.
Name of Contractor	Name of Contractor
6601 Southpoint Parkway	11801 Research Drive
Address	Address
Jacksonville, Florida 32216	Alachua, Florida 32615
Scope of Work to be Performed	Scope of Work to be Performed
\$ <u>N/A</u> _____ 6 % (Total \$ Value) (% of Total Bid/RFP)	\$ <u>N/A</u> _____ 6 % (Total \$ Value) (% of Total Bid/RFP)
GeoView	GLE Associates, Inc.
Name of Contractor	Name of Contractor
4610 Central Ave	2228 NW 40th Terrace, Suite C
Address	Address
St. Petersburg, Florida 33711	Gainesville, Florida 32605
Scope of Work to be Performed	Scope of Work to be Performed
\$ <u>N/A</u> _____ 6 % (Total \$ Value) (% of Total Bid/RFP)	\$ <u>N/A</u> _____ 6 % (Total \$ Value) (% of Total Bid/RFP)
Environmental Consulting & Technology, Inc.	Koogler & Associates
Name of Contractor	Name of Contractor
3701 NW 98th Street	4014 NW 13th Street
Address	Address
Gainesville, Florida 32606	Gainesville, Florida 32609
Scope of Work to be Performed	Scope of Work to be Performed
\$ <u>N/A</u> _____ 6 % (Total \$ Value) (% of Total Bid/RFP)	\$ <u>N/A</u> _____ 6 % (Total \$ Value) (% of Total Bid/RFP)
Wetland Solutions, Inc.	Drill Pro LLC d/b/a Groundwater Protection
Name of Contractor	Name of Contractor
2809 NW 161st Court	2300 Silver Star Road
Address	Address
Gainesville, Florida 32609	Orlando, Florida 32804
Scope of Work to be Performed	Scope of Work to be Performed
\$ <u>N/A</u> _____ 6 % (Total \$ Value) (% of Total Bid/RFP)	\$ <u>N/A</u> _____ 1 % (Total \$ Value) (% of Total Bid/RFP)

If additional space is required for your subcontractor listing, make copies of this **Exhibit F** and submit with you RFP package.

DRUG FREE WORKPLACE

Section 22.09 Competitive Sealed Bidding of the Alachua County Purchasing Code states that in the evaluation of proposals, all factors in the bidding process being equal, both as to dollar amount and ability to perform, priority will be given, first, to those vendors certifying a drug-free workplace, secondly, to certified Small Business Enterprise (SBE) bidders.

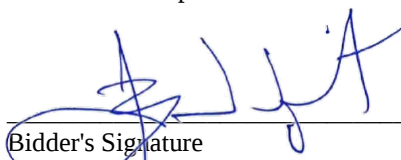
The undersigned vendor in accordance with Florida Statute 287.087 and Section 22.09 of the Alachua County Purchasing Code hereby certifies that

GSE Engineering & Consulting, Inc.
Name of Business

does:

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 1893 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.


Bidder's Signature

4/24/2019
Date

PUBLIC RECORD DECLARATION OR CLAIM OF EXEMPTION

As a bidder or proposer, any document you submit to Alachua County may be a public record and be open for personal inspection or copying by any person. In Florida "public records" are defined as all documents, papers, letters, maps, books, tapes, photographs, films, sound recordings, data processing software, or other material, regardless of the physical form, characteristics, or means of transmission, made or received pursuant to law or ordinance or in connection with the transaction of official business by any agency. Section 119.011, F.S. A document is subject to personal inspection and copying unless it falls under one of the public records exemptions created under Florida law. Please designate what portion of your bid or proposal, if any, qualifies to be exempt from inspection and copying:

(Execute either section I. or II, but not both; bidder may not modify language)

I. NO EXEMPTION FROM PUBLIC RECORDS LAW

No part of the bid or proposal submitted is exempt from disclosure under the Florida public records law, Ch. 119, F.S.



Bidder's Signature

4/24/2019

Date

- - - OR - - -

II. EXEMPTION FROM PUBLIC RECORDS LAW AND AGREEMENT TO INDEMNIFY AND DEFEND ALACHUA COUNTY

The following parts of the bid or proposal submitted are exempt from disclosure under the Florida public records law because: (list exempt parts and legal justification. i.e. trade secret):

By claiming that all or part of the bid or proposal is exempt from the public records law, the undersigned bidder or proposer agrees to protect, defend, indemnify and hold the County, its officers, employees and agents free and harmless from and against any and all claims arising out of a request to inspect or copy the bid or proposal. The undersigned bidder or proposer agrees to investigate, handle, respond to, provide defense (including payment of attorney fees, court costs, and expert witness fees and expenses up to and including any appeal) for and defend any such claim at its sole cost and expense through counsel chosen by the County and agrees to bear all other costs and expenses related thereto, even if they (claims, etc.) are groundless, false, or fraudulent.

Bidder's Signature

Date

July 26, 2006



GSENGI-01

KGODWIN

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

4/23/2019

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 Ames & Gough 8300 Greensboro Drive Suite 980 McLean, VA 22102	CONTACT NAME: PHONE (A/C, No, Ext): (703) 827-2277 FAX (A/C, No): (703) 827-2279 E-MAIL ADDRESS: admin@amesgough.com												
INSURER(S) AFFORDING COVERAGE													
INSURED GSE Engineering & Consulting, Inc. 5590 SW 64th Street Gainesville, FL 32608-9607	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">INSURER A : Travelers Indemnity Company of Connecticut A++ (Superior)</td> <td style="width: 20%;">25682</td> </tr> <tr> <td>INSURER B : Travelers Indemnity Co. of America A++, XV</td> <td>25666</td> </tr> <tr> <td>INSURER C : Travelers Indemnity Company, A++, XV</td> <td>25658</td> </tr> <tr> <td>INSURER D : Travelers Property Casualty Company of America</td> <td>25674</td> </tr> <tr> <td>INSURER E : Berkley Insurance Company A+, XV</td> <td>32603</td> </tr> <tr> <td>INSURER F :</td> <td></td> </tr> </table>	INSURER A : Travelers Indemnity Company of Connecticut A++ (Superior)	25682	INSURER B : Travelers Indemnity Co. of America A++, XV	25666	INSURER C : Travelers Indemnity Company, A++, XV	25658	INSURER D : Travelers Property Casualty Company of America	25674	INSURER E : Berkley Insurance Company A+, XV	32603	INSURER F :	
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INSURER E : Berkley Insurance Company A+, XV	32603												
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:	X		680-002J107495	3/12/2019	3/12/2020	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>EACH OCCURRENCE</td><td style="text-align: right;">\$ 1,000,000</td></tr> <tr><td>DAMAGE TO RENTED PREMISES (Ea occurrence)</td><td style="text-align: right;">\$ 1,000,000</td></tr> <tr><td>MED EXP (Any one person)</td><td style="text-align: right;">\$ 10,000</td></tr> <tr><td>PERSONAL & ADV INJURY</td><td style="text-align: right;">\$ 1,000,000</td></tr> <tr><td>GENERAL AGGREGATE</td><td style="text-align: right;">\$ 2,000,000</td></tr> <tr><td>PRODUCTS - COMP/OP AGG</td><td style="text-align: right;">\$ 2,000,000</td></tr> <tr><td></td><td style="text-align: right;">\$</td></tr> </table>	EACH OCCURRENCE	\$ 1,000,000	DAMAGE TO RENTED PREMISES (Ea occurrence)	\$ 1,000,000	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		\$
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PRODUCTS - COMP/OP AGG	\$ 2,000,000																				
	\$																				
B	AUTOMOBILE LIABILITY ☒ ANY AUTO OWNED AUTOS ONLY ☐ SCHEDULED AUTOS ☐ HIRED AUTOS ONLY ☐ NON-OWNED AUTOS ONLY OTHER:	X		BA-2J108166	3/12/2019	3/12/2020	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>COMBINED SINGLE LIMIT (Ea accident)</td><td style="text-align: right;">\$ 1,000,000</td></tr> <tr><td>BODILY INJURY (Per person)</td><td style="text-align: right;">\$</td></tr> <tr><td>BODILY INJURY (Per accident)</td><td style="text-align: right;">\$</td></tr> <tr><td>PROPERTY DAMAGE (Per accident)</td><td style="text-align: right;">\$</td></tr> <tr><td></td><td style="text-align: right;">\$</td></tr> </table>	COMBINED SINGLE LIMIT (Ea accident)	\$ 1,000,000	BODILY INJURY (Per person)	\$	BODILY INJURY (Per accident)	\$	PROPERTY DAMAGE (Per accident)	\$		\$				
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BODILY INJURY (Per accident)	\$																				
PROPERTY DAMAGE (Per accident)	\$																				
	\$																				
C	☒ UMBRELLA LIAB ☒ OCCUR ☐ EXCESS LIAB ☐ CLAIMS-MADE DED ☒ RETENTION \$ 10,000			CUP-2J109114	3/12/2019	3/12/2020	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>EACH OCCURRENCE</td><td style="text-align: right;">\$ 1,000,000</td></tr> <tr><td>AGGREGATE</td><td style="text-align: right;">\$ 1,000,000</td></tr> <tr><td></td><td style="text-align: right;">\$</td></tr> </table>	EACH OCCURRENCE	\$ 1,000,000	AGGREGATE	\$ 1,000,000		\$								
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AGGREGATE	\$ 1,000,000																				
	\$																				
D	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	UB-2J108812	3/12/2019	3/12/2020	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>☒ PER STATUTE ☐ OTH-ER</td><td></td></tr> <tr><td>E.L. EACH ACCIDENT</td><td style="text-align: right;">\$ 1,000,000</td></tr> <tr><td>E.L. DISEASE - EA EMPLOYEE</td><td style="text-align: right;">\$ 1,000,000</td></tr> <tr><td>E.L. DISEASE - POLICY LIMIT</td><td style="text-align: right;">\$ 1,000,000</td></tr> </table>	☒ 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						
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E	Professional Liab.			AEC-9028152-01	3/12/2019	3/12/2020	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Per Claim/Aggregate</td><td style="text-align: right;">2,000,000</td></tr> </table>	Per Claim/Aggregate	2,000,000												
Per Claim/Aggregate	2,000,000																				

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
 The Alachua County Board of County Commissioners, its officials, employees and volunteers are included as additional insured with respect to General Liability and Automobile Liability when required by written contract. General Liability includes Additional Insured coverage for On-Going & Completed Operations as required by written contract. General Liability is primary and non-contributory over any existing insurance and limited to liability arising out of the operations of the named insured and when required by written contract. 30-day Notice of Cancellation will be issued for the General Liability, Automobile Liability, Workers Compensation and Professional Liability policies in accordance with policy terms and conditions.

CERTIFICATE HOLDER**CANCELLATION**

Alachua County Board of County Commissioners 12 SE 1st St, 3rd Floor Gainesville, FL 32601	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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GSE ENGINEERING & CONSULTING, INC.

5590 SW 64TH STREET, SUITE B, GAINESVILLE, FL 32608

Contact: KENNETH L. HILL

Email: khill@gseengineering.com

Business Tel: (352) 377-3233

Fax Number: (352) 377-0335

Cert. Type: SMALL

Description:

GEOTECHNICAL, ENVIRONMENTAL AND STRUCTURAL ENGINEERING, CONSULTING

Number of records found: 1

You may download an [application form for Small Business Certification](#) here. Please mail it to Alachua County Equal Opportunity Division, 12 SE 1st Street, 1st Floor, Gainesville, FL 32627 to be considered for entry into the directory.



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Background image: Paines Prairie provided by: PhotoTale Studio, Portrait, Family and Landscape Photographer in Gainesville, FL

This website is a public service. Please read the Legal Disclaimer. Website designed and engineered by Alachua County ITS, Applications Division Version 2014 (v1.0) Under Florida law (Statute 119.011), all information, including e-mail, written letters, documents and phone messages, sent to the Alachua County Board of County Commissioners is subject to Public Records law. This includes the sender's e-mail address, home address or phone number if shown in the message, the content of the message and any associated attachments to the mail. Also please be aware that electronic correspondence (e-mail) is made available on the Commission's public archive site immediately upon being sent. Instead, contact Alachua County Offices by phone or in writing.



**Alachua County Board of
County Commissioners**

Equal Opportunity Office

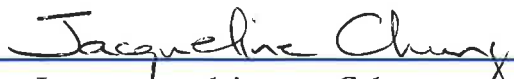
GSE Engineering & Consulting, Inc.

is Certified as a Small Business

Enterprise Under the Provisions of

Section 22, Alachua County Ordinance 06-28

from April 5, 2018 to April 5, 2019


Jacqueline Chung
Equal Opportunity
Manager


Chair
Alachua County Board of
County Commissioners

STATEMENT OF CONSULTANTS EQUAL OPPORTUNITY POLICIES AND PRACTICES

GSE Engineering & Consulting, Inc. is an equal opportunity employer (EOE) consistent with Federal Law.



Engineering & Consulting, Inc.

LIST OF VERIFIABLE REFERENCES

Phase 1 ESA, Weiss Tract, Alachua County, Florida

GSE Key Personnel: Mr. Joakim B Nordqvist, P.E.

Scope of Services: Phase 1 Environmental Site Assessment

Client: Mr. Kevin Ratkus
Alachua County Parks & Conservation Land Department
408 W. University Avenue, Suite 106
Gainesville, Florida 32601
Phone: 352-264-6845
kratkus@alachuacounty.us

Proposed Millhopper Road Fire Station Site, Gainesville, Alachua County, Florida

GSE Key Personnel: Mr. Joakim B Nordqvist, P.E.

Scope of Services: Phase 1 Environmental Site Assessment

Client: Mr. Gus Olmos
Alachua County Parks & Conservation Land Department
408 W. University Avenue, Suite 106
Gainesville, Florida 32601
Phone: 352-264-6806
gus@alachuacounty.us

6617 Ulmerton Road Site, Largo, Pinellas County, Florida

GSE Key Personnel: Mr. Joakim (Jay) B. Nordqvist, P.E.

Scope of Services: Site Assessment and Remediation, Brownfields Project

Client: Mr. Matt Casson
Concept Development, Inc.
3324 W University Avenue
Gainesville, FL 32607
Phone: 352-333-3233
matt@conceptcompanies.net

San Felasco Parkway, Alachua, Alachua County, Florida

GSE Key Personnel: Mr. Joakim (Jay) B. Nordqvist, P.E.

Scope of Services: Phase 1 Environmental Site Assessment

Client: Mr. Adam Boukari, City Manager
City of Alachua
P.O. Box 9
Alachua, FL 32616
Phone: 386-418-6100
aboukari@cityofalachua.org



Engineering & Consulting, Inc.

Alachua County Division of Purchasing
3rd Floor
County Administration Building
12 SE 1st Street
Gainesville, Florida 32601-6983

20-171:
Annual Environmental Consulting Services

APR 24 '19 AM 11:08