



ALACHUA COUNTY ANNUAL ENVIRONMENTAL CONSULTING SERVICES

RFP NO. 20-171
DATE 4/24/2019

JonesEdmunds 

TABLE OF CONTENTS

Tab 1 Letter of Interest	1
Tab 2 Project Understanding and Approach	3
Tab 3 Consultant's Qualifications and Staff	
Organizational Chart	7
Résumés	8
Workload	34
Overview and Qualifications	35
Primary Liaison and Subconsultants	44
Project Experienc.....	57
Tab 4 Ability of Consultant's Professional Personnel	74
Tab 5 Ability to Meet Time and Budget Requirements	76
Tab 6 Effect of Project Team Location on Project Responses	78
Tab 7 Appendix	79

TAB 1

LETTER OF INTEREST



April 24, 2019



Alachua County Board of County Commissioners

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

730 NE Waldo Road
Gainesville, FL 32641
352.377.5821

RE: RFP #20-171 – Annual Environmental Consulting Services

Dear Members of the Selection Committee:

The Alachua County Environmental Protection Department is tasked with protecting land, air, and water resources within the County. As community members, Jones Edmunds understands the challenges in balancing environmental protection with ongoing community development while working in an evolving regulatory environment. We are excited about this opportunity to support the County in achieving this balance while protecting the unique features that attract people to our home County – “Where Nature, Culture, and Innovation Meet.”

We are pleased to submit our qualifications to provide comprehensive environmental consulting services to Alachua County. Our team has significant experience in each of your program areas – air and water quality protection and monitoring, land conservation, natural resources protection, hazardous materials management, asbestos abatement, and development review.

In addition to our technical capabilities, we have a demonstrated record assisting our clients in obtaining funding – such as assisting St. Johns County in obtaining large FDEP and SJRWMD stormwater grants. Jones Edmunds’ experience in pairing innovative stormwater solutions with funding is clearly a benefit to the County with the new stormwater assessment in place and the FDEP springs protection initiative. Our expertise in TMDLs, MFLs, and FEMA CRS enhances our ability to assist the County with your stormwater infrastructure.

Headquartered and established in Gainesville in 1974, Jones Edmunds has grown to more than 80 staff members at this location; these employees are available to serve the County and support your needs under this contract, as we have supported the County on other contracts for many years. Being local enables us to be highly responsive to the County and to provide exceptional project coordination. We are immediately accessible to meet and work face-to-face with your staff and local stakeholders. Nearly 90% of our Gainesville office staff live in Alachua County and have a vested interest in the community.

We included subconsultant firms on our team to help address the broad array of services on this contract: OHC Environmental Engineering for asbestos assessment and abatement, Deren Land Surveying for surveying, ENCO for laboratory analytical services, Golder Associates, Inc. for air quality monitoring and assessment, and GSE Engineering and Consulting for geotechnical and structural engineering services.

Jones Edmunds is committed to serving the County by upholding the values our firm was founded on: Integrity, Knowledge, and Service. We have technical expertise combined with project management and quality assurance processes to help expedite your projects and provide you with quality solutions. Additionally – and of even greater significance – is that our services are government-focused. We offer the County no conflicts of interest and are not involved in local development projects. As such, our primary desire will be to ensure that the County’s goals and visions are met on each project and to improve the community where we live, work, and play.

Innovative Approaches. Jones Edmunds has a culture of innovation in approaching projects. We bring a blend of skills to create new ideas and fresh approaches for meeting today’s demands in environmental management:

- We remain at the forefront of using LiDAR data and developing GIS processing tools – both of which enable detailed, accurate, and reproducible landscape analyses. Our GIS-centric approach can save considerable time in assessing and developing solutions for land, air, and water contamination issues.
- We wrote the State’s first Low-Impact Development (LID) Manual for Sarasota County that was peer reviewed by SWFWMD and received recognition from SWFWMD for Environmental Resource Permits (ERP). This manual served as a model subsequent LID Manuals, such as the one for the Alachua County LID

Manual. We also wrote the City of Jacksonville LID Manual that was reviewed by SJRWMD and also received recognition from SJRWMD for ERPs.

- We have an excellent working relationship with regulatory agencies and a demonstrated history of achieving mutually beneficial outcomes.
- We worked with St. Johns County and Sarasota County to develop and implement development review processes that help to protect communities from adverse drainage impacts due to land development.

Effective Design Solutions. We have a history of developing design solutions that are not only functional and cost-effective, but also serve as amenities for the community. We believe the County has a much better chance of developing the most effective solution if time is first taken to explore multiple options and quantify benefits and costs of each through thoughtful and expert preliminary engineering. We can move forward with final design and permitting knowing that we have the best solution to satisfy the goals of the project and perhaps other County goals (e.g., improved parks). Also, both the County and Jones Edmunds emphasize the long-term operation and maintenance aspects of the design in terms of life-cycle cost and the practicality of the County taking on the associated commitment. We are also aware of the County's desire to obtain community acceptance in developing lasting solutions, with effective communication being key in this process. Facilitating community meetings and incorporating feedback into our designs are routine for our design work. We also offer the ability to communicate design solutions in ways that are readily visualized and understood by the community. For example, our sketches and 3-D animations of the Paynes Prairie Sheetflow Restoration project were extremely helpful in demonstrating design concepts and soliciting useful input.

Funding Assistance. We have an outstanding record with helping our clients obtain grant funding for their projects. The ability to develop innovative designs and demonstrate project effectiveness is part of our success. We also have outstanding relationships and reputations with the grant funding agencies. When we see the right fit between a project and funding, we establish early communication with the agency to start fostering support for the project. We ultimately provide a submittal that is complete and convincing.

Complete Team. We have assembled a team that provides you with a complete set of the desired skillsets. Our team is highly experienced in all services from project development to engineering design and permitting to construction phase, so we will be able to meet or exceed your expectations on whatever project you assign to us. We also have a significant amount of depth on our team, so we can easily adjust to unexpected project elements and can meet the demands of multiple concurrent assignments if or when the need arises.

We are committed to meeting the County's technical, scheduling, and financial goals throughout this contract and appreciate the opportunity to serve you. The Jones Edmunds Team has an excellent understanding of the County's needs for this contract, provides highly cost-effective service, and has earned awards for our ability to develop projects covering flood protection, water quality, and natural systems improvement projects. Thank you for this opportunity to present our credentials, and we look forward to the opportunity to work with you.

Sincerely,



Alan Foley, PE
Contract & Client Services Manager
Office: 352.377.5821 ext. 1389
afoley@jonesedmunds.com



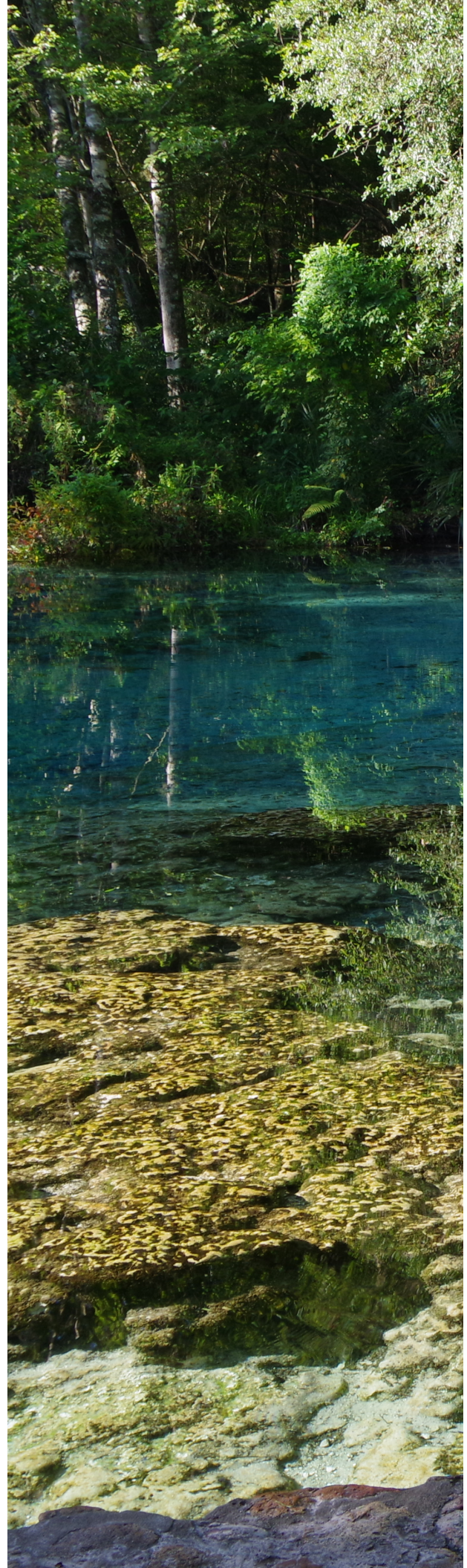
Justin Gregory, PE
Assistant Contract Manager
Office: 352.377.5821 ext. 1397
jgregory@jonesedmunds.com



Kenneth Vogel, PE
Managing Director
Office: 352.377.5821 ext. 1241
kvogel@jonesedmunds.com

TAB 2

PROJECT UNDERSTANDING AND APPROACH



TAB 2 – PROJECT UNDERSTANDING AND APPROACH

PROJECT UNDERSTANDING

Jones Edmunds understands that Alachua County requires multidisciplinary environmental consulting services to support Alachua County’s efforts to protect and preserve our County’s land, water, and air resources. Although ACEPD may request specific environmental consulting services for special projects, the County program areas to be supported include hazardous materials management, air and water quality protection and monitoring, land conservation, asbestos abatement, natural resources protection, development review, and other initiatives. Services required may include field sampling and data collection, laboratory analyses, engineering and scientific analyses, site assessment, site design, ordinance review, report preparation, public outreach, and expert witness services.

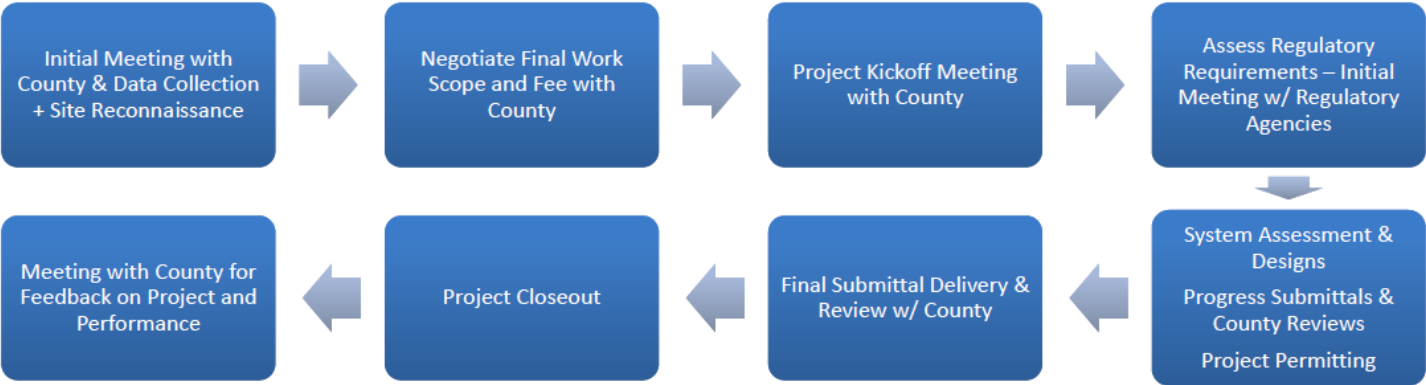
PROJECT APPROACH

Jones Edmunds understands that continuing contracts are often used as a vehicle for projects that require a quick turnaround or have a limited budget. We are working with over 50 entities in Florida on a continuing contract basis including counties, cities, state, and federal agencies. This breadth of experience provides our staff with the range of expertise necessary to complete your task order projects efficiently. We know the importance of meeting schedule and budgetary needs for our public sector clients. Our relationship with Florida counties, cities, and government agencies is our primary focus. Jones Edmunds does not routinely perform work for private developers that might create a conflict of interest with our public clients’ projects.

Jones Edmunds’ philosophy is structured around clients and projects. Coordination and communication between Jones Edmunds and Alachua County will be provided by [Alan Foley](#), our Contract Manager, who will be readily available to the County for developing task assignments under this contract. Alan is a Senior Project Manager in our Gainesville office and has diverse experience in many technical elements required on this contract. Alan and his local team are available to hold monthly program management meetings, if needed, with County staff to provide updates on the status of projects and resolve outstanding issues. During projects, Jones Edmunds will provide project status reports and will be responsible for timely coordination at appropriate stages in the project, such as early involvement of regulatory agencies.



The flow chart below summarizes our established approach for completing assignments under a continuing miscellaneous professional services contract. Although each project is unique and has specific requirements to be addressed, we have found this general approach to be a highly effective basis on which to complete virtually any assignment.



TAB 2 – PROJECT UNDERSTANDING AND APPROACH

Jones Edmunds will provide full multi-disciplinary services as needed to complete the County's projects. Alan will assign a Project Manager based on the type of work and the required expertise. The first step in completing a successful task assignment will be to identify a complete scope of services and schedule for each assignment. We will begin each assignment with a complete understanding of the goals and expectations of the County. We understand the need for timely quality production of assigned task deliverables and to exercise common-sense management regarding schedule and budget. We are ready and willing to meet the needs of Alachua County.

PROJECT MANAGEMENT STRATEGY

The screenshot shows the 'Project Planning' software interface. The title bar includes 'Save', 'Save Baseline', 'New', 'Actions', 'Options', 'Print', and 'Help'. The main menu bar shows 'P_Myhre_HayesGlen_Alachua County' and 'Retrieve Mode: All Data * ETC/JTD Date: 4/23/2019'. The 'General' tab is selected, showing fields for Plan Name, Plan Number, Top Project, Opportunity, Primary Client, Client Services, Project Manager, Task Manager, Organization, % Complete Formula, Planned Revenue, Labor Multiplier Type, Multiplier, Reimbursable Method, Created By, and Modified By. The 'Archived*' checkbox is checked, and the 'Available to Other Users' checkbox is also checked. The 'Status' dropdown is set to 'Dormant'.

It is at the heart of our company to dedicate ourselves to the people we serve with integrity, knowledge, and service. The County can rely on us to meet your work order goals and objectives while maximizing resources and minimizing costs wherever possible. Jones Edmunds' emphasis on – and success in – maintaining budgets and controlling costs and project schedules is attributed in part to the strength and flexibility of our standard project management procedures. Our flexibility will include adapting our tools and using County requirements to provide you project reports that meet your needs. The following describes Jones Edmunds' project management strategies.

Project Plan – It starts with a plan...working with County staff, we will develop our understanding of the project requirements and

expectations. From that we will refine the scope of work, labor-hour breakdown, deliverable due dates, and project budget. Following your approval, we will develop a Project Plan. This Plan provides the Project Team with fundamental information that is critical to properly completing the project.

Each Project Plan includes the following components:

- **Project Vision:** We understand that the County's vision is critical to the success of every project.
- **Critical Success Factors and Performance Measures:** We want to make sure that the County staff views every project that we work on as being completed successfully. At the beginning of each project, we ask and answer the simple question, "What will make this project successful and how are we going to measure that success?" This is documented in the Plan.
- **Risk Elements and Risk Prevention Measures:** Every project has risk associated with it, whether technical, schedule, budget, or other. We identify the risks and the measures that we are going to take to manage and mitigate risk.
- **QC Team and the Milestone and Deliverable Schedule:** The QC team is identified up front, and the schedule approved by the County is incorporated into the Project Plan.
- **Complementary Plans will be discussed and developed as part of the Project Plan.** Those may include a Health and Safety Plan, Communications Plan, and Quality Assurance Project Plan. Each is further described below.

Heathy and Safety Plan – As part of the project planning process, we identify the need for other plans. Of highest priority is the health and safety of the staff assigned to the project. We have a formalized process to assess the health and safety risks associated with entire projects and specific tasks and a policy and method to prepare a health and safety plans (HASP) to help communicate the potential risks and prepare to mitigate them. This County contract and the Disciplines for which we are seeking qualification are likely to require HASPs for the variety of field work we could perform.

TAB 2 – PROJECT UNDERSTANDING AND APPROACH

Project Communication Plan – We believe that communication is one of the key aspects of a successful project management. Our Project Manager and your Project Manager will communicate frequently. Our project team will communicate among themselves using tools, such as Microsoft Teams, adapted for each project. We know that regularly-provided, tangible-assurance of project progress and activities is vital to project success. If the County project team requires or desires a Project Communication Plan, one will be prepared.

Schedule Control – Jones Edmunds maintains established schedules throughout projects. We hold regular meetings with your project team members to review the status of the scope of work, deliverable due dates, and budgets. Maintaining schedules contributes to effective budget control by keeping the team focused on the activities scheduled and deliverables due.

Cost Control – Our customized version of Deltek Vision allows us to easily track project costs and provides project performance as well as billing information. Our managers use accounting information and their knowledge of project status to track performance weekly.

Contingency Procedures – We understand that despite the best planning and management of a project, unexpected changes in personnel and project scope or direction can occur. To mitigate the negative effect of possible unexpected changes to the project team, we structure a project team with redundancy in key roles. We also understand that minor unexpected changes to the project scope and direction can require quick reviews and adjustments to scopes, while keeping the project within budget. We are adaptable to change.

Our Record – Jones Edmunds is committed to meeting the District’s budget and schedule requirements. Our record of working with clients on work order contracts involving multiple project assignments supports our commitment. We have and use project management tools to facilitate the flow of project information. To provide the best schedule and budget controls to for District, we will use our established – but flexible – project planning tools and procedures. **Monitoring and controlling the project schedule includes measuring progress toward the project objectives, evaluating actions needed to reach the objectives, and taking appropriate actions.**

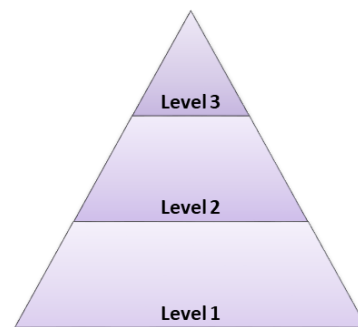
QUALITY ASSURANCE/QUALITY CONTROL

The Jones Edmunds project delivery approach incorporates project controls and quality assurance/quality control (QA/QC) at multiple levels for each project deliverable. We have established procedures in place for QA/QC that are tailored to fit each project and are identified and documented as part of the project scope and the project plan. Internal and task reviews will be scheduled at the beginning of the project. Our approach to quality control begins with developing and reviewing individual project components followed by reviewing the project in its entirety to ensure continuity and constructability among the numerous elements.

The QA/QC team is defined for each project during the project plan development. The QA/QC team will attend relevant project meetings to maintain an appropriate level of involvement and to keep focused on project objectives. This team will be available as internal consultants when the tasks are developed and will provide input as required. This approach stresses error avoidance rather than simply error identification.

QA/QC staff conduct independent QC reviews at milestones identified in the project plan. The following reviews are performed at each milestone:

- Level 1 reviews are “self-checks” by the technical leads involved in day-to-day production. At the start of the scheduled QC event, the technical leads will review their own work to be sure it is ready for the County.
- Level 2 reviews involves “peer review” of the technical work product by licensed professionals experienced in the respective discipline and review of the other project team firm’s work product by our in-house experts for accuracy, completeness, applicability, practicality, and compatibility with client expectations.
- Level 3 reviews are performed by the Project Manager and a Senior Reviewer assigned to the project by Jones Edmunds senior management.



TAB 2 – PROJECT UNDERSTANDING AND APPROACH

Our project management processes are continuous to detect and resolve potential problems so that the quality deliverables expected by both Jones Edmunds and the County are achieved within the project schedule and budget. Furthermore, we take a "no surprises" approach that is proactive in detecting potential problems and taking the appropriate measures to resolve them, keeping the County informed each step of the way.

Additionally, Jones Edmunds' construction services personnel perform constructability reviews on every design project as part of a standard QA/QC review. These professionals have direct experience in the construction industry and take an active role in reviewing design documents and preparing construction bidding and contract documents. This activity allows Jones Edmunds to address constructability issues during the design phase, which minimizes conflicts, bid addenda, construction change orders, and delays. Our goal is to provide Alachua County with economic and efficient projects that meet your timeline.

WORKLOAD

We have evaluated our workload and are prepared to commit the time and resources to successfully complete projects assigned under this contract. We are invested in the Alachua County community and are eager for the chance to provide services as requested. Our current workload for the next 12 months and our workload evaluation procedure are included in the following section.



TAB 3

CONSULTANT'S QUALIFICATIONS AND STAFF



Bold = Key Personnel



Contract & Client Services Manager

Alan Foley, PE

Assistant Contract Manager

Justin Gregory, PE

Field Data Collection & Training

Wetland Delineation & UMAM Assessment |
Water & Air Sampling | Asbestos Sampling
& Abatement | Environmental Audits

Benjamin Bukata, MS, PWS, AA
Tim Cully
Project Managers

Elizabeth Kennelley, MS, CEPM
Kim Rivera, PE
QA/QC

Philip Stein
Grant Hill

Steve Messick

*James Rizk, MS, CIH, LAC¹

*Michael Lawn, RA, FLAC¹

*David Deren, PSM²

*Kris Ann Gath, PSM²

*David Camacho³

*Matthew Foti, PhD³

*Philip Cobb, PhD., PE⁴

*Andreas Wagner, M.Eng., CIH, ROH⁴

*Salahuddin Mohammad, PE⁴

*Gage Miller⁴

Data Assessment, Modeling, & Reporting

Hydrogeological and Potentiometric Mapping |
Contamination Assessment and Modeling |
Phase I and II Assessments | Technical
Report Preparation

Suzanne Kaufman, PE
Project Manager

Brett Cunningham, PE
Troy Hays, PG
QA/QC

John Horvath, PE
Michelle Hays, MS, PG
Roberto Rosario, PE
Carol Sawyer, PE

*Kenneth Hill, PE⁵

*Monrad Thue, PE⁵

*Philip Cobb, PhD., PE⁴

*Andreas Wagner, M.Eng., CIH, ROH⁴

*Salahuddin Mohammad, PE⁴

*Gage Miller⁴

Design & Restoration

Stormwater Design and Permitting |
Remediation Technology and Implementation
| Wetland Creation & Restoration |
Construction Plan & Specification
Development | Construction Oversight

Bruce Myhre, PhD, PE
Project Manager

Walter Nickel, PE
QA/QC

Justin Gregory, PE
Amy Goodden, PE
Austin Wood, PE
Benjamin Bukata, MS, PWS, AA
*Kenneth Hill, PE⁵
*Monrad Thue, PE⁵

Public Outreach & Regulatory Assistance

Public Meetings | Expert Testimony |
Funding Assistance | Environmental
Regulation and Ordinance Development |
Land Development Regulations

Brett Cunningham, PE
Project Manager

Terri Lowery
QA/QC

John Horvath, PE
Jamie Bell, PE, CFM
Walter Nickel, PE
Matthew O'Brien, PE

Subcontractors

Asbestos

OHC Environmental
Engineering¹



Surveying

Deren Land Surveying²



Analytical Services

ENCO³



Air Quality

Golder Associates⁴



Geotechnical & Structural

GSE Engineering &
Consulting⁵



ALAN FOLEY, PE

CONTRACT AND CLIENT SERVICES MANAGER

Alan specializes in water resources management, stormwater design, and systems ecology. He has experience participating in and managing a variety of engineering, civil site design, and environmental science projects. Alan has significant experience integrating hydrologic and hydraulic modeling with GIS-based tools and GPS for an efficient approach to watershed master planning and design. He has led the design efforts for regional flooding and water quality treatment projects. The projects below demonstrate Alan's experience working with local governments.

SELECTED PROJECT EXPERIENCE

Coastal Dune Lakes Study | Walton County | Project Manager

Alan coordinated the project team, worked directly with the County project manager, and was responsible for all aspects of the Coastal Dune Lakes Study including geospatial nutrient load modeling, field sampling, water quality assessment, and stakeholder meetings.

Volusia Blue Spring Recharge Assessment | SJRWMD | Project Manager

Alan served as the Project Manager and coordinated all aspects of the site assessment, recharge modeling, and conceptual design development. Jones Edmunds developed conceptual designs for developing a recharge site to help achieve minimum flow regime recovery for Volusia Blue Spring. The site will use a treatment train, including wetlands, to polish public reuse effluent and achieve the numeric nutrient criteria for nitrogen.

Lake Jesup Flow Restoration | SJRWMD | Project Manager

Alan managed a project team in refining hydrodynamic and water quality models of the Middle St. Johns River. The models were used to assess potential water quality improvements due to proposed hydrologic reconnection scenarios for Lake Jesup.

Hogtown and Possum Creek Culvert Design | City of Gainesville

Alan served as the Project Director and provided QC of the stormwater calculations and drainage design. Jones Edmunds designed drainage improvements for the Hogtown and Possum Creek crossings of NW 8th Avenue that would restore historical characteristics and functionality of the creek floodplain areas north and south of Northwest 8th Avenue. Project goals included minimizing capital and maintenance costs associated with erosion and sediment accumulation in the creeks, minimizing flood risk to the roadway and homes in the area, and minimizing environmental impacts to the creeks and adjacent floodplain.

SE 31 St. Stormwater Retrofit | Marion County | Project Director

Jones Edmunds designed, permitted, and provided services during construction for a lined 2.3-acre constructed emergent marsh with a forebay and a small bioretention. This stormwater treatment system provides wildlife habitat while removing pollutants such as nitrogen, phosphorus, and heavy metals and attenuating peak discharges prior to discharge to a sinkhole.



AREAS OF SPECIALIZATION:

- Water Resources Management
- Project Management
- Stormwater Design
- Modeling
- Systems Ecology

YEARS OF EXPERIENCE: 20

YEARS WITH FIRM: 19

EDUCATION:

Master of Engineering,
Environmental Engineering,
University of Florida, 2002

Bachelor of Science,
Environmental Engineering,
University of Florida, 1996

PROFESSIONAL CERTIFICATION:

Professional Engineer, #60075,
2003, FL

[Regional Stormwater Model Program | St. Johns County | Project Director](#) Alan managed and coordinated development of detailed regional surface water models for St. Johns County. The models are being used to assess and identify solutions for flooding issues, to update the Federal Flood Insurance Rate Maps, and as a basis for stormwater permit review in the County.

[Sixmile Creek Dissolved Oxygen TMDL | St. Johns County | Project Manager](#) Jones Edmunds worked with County staff to determine the best predictor of the Dissolved Oxygen relationship to nutrients in Sixmile Creek and suggest improvements to the EPA-proposed TMDL. We developed and calibrated an HSPF model for hydrology and pollutant loading and a WASP7 model for in-stream processes. Our model better matched measured concentrations compared to EPA's results. We also developed empirical models using the available water-quality-sampling data.

[Stormwater Reviews | Sarasota County | Project Engineer](#) Alan served as a GIS Analyst and helped to review ICPR models and supporting materials related to roadway, CIP, and development projects throughout the County. Our review followed the County's specific review criteria that are applied to minimize adverse water resource impacts that may result from these projects. The reviews involved a short turn-around time, and Jones Edmunds acted as a direct extension of County staff.

[Stormwater Manual | Sarasota County | Project Engineer](#) Alan served as a Project Engineer and helped to develop a Stormwater Manual based on the County's then-current review process and on recommendations Jones Edmunds provided. Jones Edmunds developed a draft Stormwater Manual in hard copy and electronic formats for the County to review and met with the County to perform the review and incorporate the County's comments. The Stormwater Manual covers submittal requirements, a summary of existing data available to submitters, and submittal standards.

[Countywide Flood Protection Level of Service Study | St. Johns County | QA/QC](#) Alan evaluated multiple flooding locations for possible improvements as Jones Edmunds prepared a Countywide Flood Protection Level of Service (FPLOS) study for St. Johns County. The intent of the study was for the County to use the results to identify critical flood-prone roadways and buildings within the County and prioritize roadway or stormwater infrastructure projects to address the issues.

[Deep Creek West RST Modification Design | St. Johns County | Project Manager](#) Alan managed this project to design improvements for the Deep Creek West regional stormwater treatment facility. He worked with County and SJRWMD staff to refine the design elements and coordinated the project team.

[Holmes Blvd – West King Street Drainage Improvements | St. Johns County | Project Engineer](#) Alan assisted in the pond siting analysis and stormwater alternatives for this drainage system and stormwater project pond associated with intersection improvements at West King Street and Holmes Boulevard.

JUSTIN GREGORY, PE

ASSISTANT CONTRACT MANAGER & DESIGN & RESTORATION

Justin is a Department Manager for the Gainesville Water Resources Department at Jones Edmunds. He has served as a Project Manager or technical lead on more than 20 watershed management plans in Florida in the past 8 years. Justin excels at applying GIS technology in water resources, watershed modeling, and watershed planning. He has experience in hydrologic/hydraulic modeling with ICPR and XP-SWMM and is proficient with AutoCAD and ArcGIS. The projects below demonstrate Justin's experience working with local governments.

SELECTED PROJECT EXPERIENCE

[Low Impact Development \(LID\) Manual Assistance | Alachua County | Project Manager](#) Justin managed the project and provided some guidance and QC of the case studies developed by the project team. Jones Edmunds' engineers developed alternative LID conceptual designs that could be used as case studies to support the Alachua County LID manual. In addition, we developed opinions of construction costs for the LID designs and compared those to the traditional stormwater design costs.

[Lee Street Pond and Canal Street Pond Drainage Improvements | City of Leesburg | Project Manager](#) Justin managed the Jones Edmunds team that worked on the design phase of these projects, which involved designing and permitting the Lee Street Pond, a regional stormwater detention and treatment system in the Whispering Pines basin in the City of Leesburg.

[Stormwater Reviews | Sarasota County | Project Designer](#) Justin provided design services on this project. Jones Edmunds reviewed ICPR models and supporting materials related to roadway, CIP, and development projects throughout the County. Our review followed the County's specific review criteria that are applied to minimize adverse water resource impacts that may result from these projects. The reviews involved a short turn-around time, and Jones Edmunds acted as a direct extension of County staff.

[Sweetwater/Paynes Prairie Sheetflow Restoration | Gainesville Regional Utilities \(GRU\) | Project Engineer](#) Justin assisted with developing the stormwater modeling elements of the project. Jones Edmunds completed a preliminary engineering report, design, permitting, and assistance through construction.

[Low Impact Development \(LID\) Manual | Sarasota County | Project Manager](#) Justin managed the development of the LID Manual, which was based partly on successful design ideas from similar manuals around the country tailored to the conditions encountered in Sarasota County. Development of the LID Manual included incorporating input from a large, involved working group that included public and private entities, SWFWMD, and nearby communities.



AREAS OF SPECIALIZATION:

- Water Resources
- Project Management
- Water Modeling and Supportive Technologies
- Stormwater Management
- Watershed Management, Design and Planning
- Permitting

YEARS OF EXPERIENCE: 14

YEARS WITH FIRM: 14

EDUCATION:

Master of Engineering, Agricultural Engineering, University of Florida, 2004

Bachelor of Science, Agricultural Engineering, University of Natal, Pietermaritzburg, South Africa, 2001

PROFESSIONAL CERTIFICATION:

Professional Engineer, #69831, 2009, FL

[Hogtown and Possum Creek Culvert Design | City of Gainesville | QA/QC](#) Justin provided QC of the stormwater modeling for this project in which Jones Edmunds designed drainage improvements for the Hogtown and Possum Creek crossings of NW 8th Avenue that will restore historic characteristics and functionality of the creek floodplain areas north and south of Northwest 8th Avenue.

[Masters Tract Stormwater Harvesting | St. Johns County | Project Engineer](#) Justin provided support on multiple tasks addressing water quality assessment, pollutant-load-reduction strategies, and project design.

[Stormwater Utility Ordinance Revision | City of Palm Coast | Project Manager](#) Justin's responsibilities included managing and coordinating the Jones Edmunds staff who worked on this project. He also worked closely with the City Stormwater Engineer to ensure that the project met the City's expectations.

[St. Johns Marsh Conservation Area \(SJMCA\) 2D Modeling | St. Johns County | Project Manager](#) Justin managed all aspects of the project and performed significant portions of the technical work for this project to create an integrated two-dimensional surface water/groundwater model that could be used to evaluate proposed physical and/or operational designs for protecting organic soils in the SJMCA. Jones Edmunds developed the model using ICPR v4. This model was calibrated to surface and groundwater data using gauge data collected by SJRWMD. Jones Edmunds then used this model to evaluate scenarios for improved protection of the SJMCA.

[Integrated Water Resources Management Plan | Pinellas County | Project Manager](#) Justin provided project management for the Pinellas IWRMP. This included managing the Jones Edmunds project team, coordinating with sub consultants, and being the primary client contact for the project. Jones Edmunds evaluated TMDL requirements, NPDES requirements, municipal separate storm sewer system (MS4) permit compliance modifications, and other changes to the state and federal regulatory environment. The IWRMP included the results of that effort as well as workshops to outline overall objectives for the County and its environmental resources.

[Stormwater and Water Resources Program | St. Johns County | Project Engineer](#) Justin was a Project Engineer on the team that assisted the County in developing pollutant loading models, becoming a Cooperating Technical Partner with FEMA, establishing a water quality management program, and developing regional watershed models that have multiple uses including identifying and assessing flood risks, identifying and assessing solutions to flooding problems, planning water quality improvements, and improving the County's ability to manage stormwater impacts associated with current and projected future growth.

BENJAMIN BUKATA, MS, PWS, AA
FIELD DATA COLLECTION & TRAINING,
PROJECT MANAGER/DESIGN & RESTORATION

BJ has worked in various capacities as a Wetland Scientist, GIS Analyst, and Project Manager. He has demonstrated the comprehensive inter-disciplinary experience necessary to provide support and analysis for environmental projects with an emphasis on wetlands, water quality, and ecology. He has proven experience providing technical expertise in ecological services including evaluating, designing, and permitting regional off-site mitigation areas (ROMAs), wetland delineation, environmental permitting, wetland mitigation design, vegetation monitoring, and conducting wildlife evaluations. BJ has managed numerous large GIS, ecological, and water quality related projects. The projects below demonstrate BJ's experience working with local governments.

SELECTED PROJECT EXPERIENCE

[120-Acre Site Environmental Assessment | Alachua County | Project Manager](#) BJ managed this project in which Jones Edmunds identified and flagged onsite jurisdictional wetlands for an approximately 120-acre site. In addition, we surveyed the site for listed wildlife species or their habitats, water wells, hazardous materials, and potential contamination sites..

[Turnbull Creek Regional Off-Site Mitigation Project | St. Johns County | Project Manager](#) BJ identified potential restoration opportunities and developed detailed engineering design drawings and planting plans for all nine sites, completed a complex UMAM and WRAP analysis to determine the number of mitigation credits that would be generated as a result of the proposed restoration activities, submitted an ERP application package to SJRWMD and ACOE, and received both permits.

[Regional Off-Site Mitigation Area Projects | St. Johns County | Project Manager and Scientist](#) BJ led wetland delineation efforts, identified restoration sites, designed, and permitted the Spangler Island, Turnbull Creek, Basin 8, and Basin 9 ROMAs for the County. He oversaw development of detailed engineering design drawings and planting plans for all sites, negotiated complex UMAM and WRAP analysis with the regulatory agencies, and obtained the necessary permits.

[Sweetwater/Paynes Prairie Sheetflow Restoration | Gainesville Regional Utilities | Senior Project Scientist](#) BJ oversaw jurisdictional wetland and surface water delineations, tree surveys, environmental permitting, UMAM analysis, and planting plans.

[CR 2209 Wetland Services | St. Johns County | Project Manager](#) BJ led the wetland delineation efforts and oversaw junior staff, ultimately obtaining agency approval of the wetland lines.

[Duval Regional Stormwater Park | City of Gainesville | Project Scientist](#) BJ performed wetland delineation and wildlife survey of 80-acre site. He identified a dehydrated wetland on-site that would benefit from receiving treated stormwater. He assisted with design of wet detention pond that discharges to the dehydrated wetland in an effort to enhance the hydrologic conditions of this wetland.



**AREAS OF
SPECIALIZATION:**

- Environmental Science (emphasis on Wetland Ecology)
- Environmental Permitting
- Wetland Restoration
- Wetland Mitigation
- Wildlife and Habitat Assessments
- Water Quality
- Geographic Information Systems

YEARS OF EXPERIENCE: 19

YEARS WITH FIRM: 17

EDUCATION:

Master of Science, Wetlands Ecology, University of Florida, 1999

Bachelor of Science, Wildlife Ecology, University of Florida, 1994

**PROFESSIONAL
CERTIFICATION:**

Professional Wetland Scientist, #1985, 2010, FL

Authorized Gopher Tortoise Agent, #GTA-10-00113B, 2012

TIM CULLY

FIELD DATA COLLECTION & TRAINING, PROJECT MANAGER

Tim is the Manager of the Jones Edmunds Environmental Sciences Department. He has extensive experience in water quality monitoring plan preparation and management. He determines and verifies water quality monitoring requirements for our clients based on FDEP and EPA regulations and site permits. Tim's experience has focused on groundwater monitoring programs, including wastewater treatment plants, sprayfields, and landfills. He also prepares technical water-quality summary reports, permit applications, and contamination assessment evaluations. The projects below demonstrate Tim's experience working with local governments.

SELECTED PROJECT EXPERIENCE

Landfill Compliance Monitoring Services | Alachua County | Project Manager Tim determines and implements project FDEP permit requirements. He coordinates field sampling and reporting requirements to meet FDEP deadlines. He is responsible for QA/QC of final groundwater monitoring reports and for communications between the client and FDEP. Tim prepares Technical Summary Reports, analyzing the groundwater monitoring data and providing recommendations for meeting regulatory requirements. Jones Edmunds is providing Landfill Compliance Monitoring services at the four closed landfills in Alachua County, including field sampling services, laboratory analyses, and reporting services.

Northeast Auxiliary Landfill Contamination Assessment Task Two | Alachua County | Project Manager Tim prepared the Contamination Assessment Report for the County. He reviewed historical groundwater data and prepared a contamination assessment plan that included site investigations and the installation of additional groundwater monitoring wells. He coordinated implementation of the contamination assessment and then compiled the field and laboratory data to prepare the final assessment report. He made recommendations for the landfill groundwater monitoring plan.

Contamination Assessment for Well C-5 US | City of Leesburg | Project Manager Tim prepared technical water-quality summary reports, permit applications, and contamination assessment evaluations. Jones Edmunds performed a contamination assessment for Benzene and Vinyl Chloride levels found in Compliance Well C-5 US in accordance with Evaluation Monitoring for FAC 62-701. The work included installing an additional well, sampling, and preparing a Contamination Assessment Report.

County Road 2209 STAR 4 Phase II Environmental Site Assessment | St. Johns County | Task Manager Tim provided senior QA/QC of recommendations for the lead soil contamination that was observed at the site.



AREAS OF SPECIALIZATION:

- Water Quality Monitoring Plan Preparation, Management, and Implementation
- Regulatory Interface and Water Quality Permit Management
- Field Sample Collection Logistical Planning, Scheduling, and Management
- Laboratory Analytical Coordination
- Field and Laboratory Data Review, Report Preparation, and Quality Assurance Review
- Contamination Assessment Evaluations

YEARS OF EXPERIENCE: 40

YEARS WITH THE FIRM: 28

EDUCATION:

Bachelor of Science, Earth Science - Geology, Montana State University, 1977

ELIZABETH KENNELLEY, MS, CEPM

FIELD DATA COLLECTION AND TRAINING, QA/QC

Elizabeth is the Manager of the Data Management and Reporting Group. A chemist by training with a MS degree in Inorganic Chemistry and certification in Environmental Management, Elizabeth has 26 years of experience in the field of environmental sample analysis and data management and reporting. During this time, she has served as a Quality Assurance/Quality Control Officer and Environmental Laboratory Technical Director under the National Environmental Laboratory Accreditation Program (NELAP) for reporting environmental data to FDEP. Elizabeth currently serves as a technical expert for laboratory reporting and data management, data review and validation, and analytical and compliance data reporting. She acts as the liaison between project managers and the laboratory (planning field efforts, coordinating proper analyses for samples, ordering sample kits, scheduling delivery of analytical results, resolving analytical reporting issues) and manages analytical data as it is reported by the laboratory. She and her staff review the analytical data for completeness, assess the data for technical and chemical consistency, evaluate results relative to QC results provided by the lab, import the data into our proprietary database, maintain site-specific complete historical databases of all analytical data, create and produce FDEP-compliant reporting packages and technical summary reports, and produce electronic data deliverables that meet all current Validator/WACS and ADaPT program requirements. The projects below demonstrate Elizabeth's experience working with local governments.

SELECTED PROJECT EXPERIENCE

Landfill Compliance Monitoring Services | Alachua County | Project Scientist Elizabeth oversees and provides QA/QC for a variety of key services for the County, including semi-annual groundwater and surface water monitoring and reporting; preparation of groundwater potentiometric maps, preparation of biennial reports of groundwater trends, analysis, and certification; maintenance of a complete historical database for all analytical data for each site, resolution of permit compliance issues, and interfacing with regulatory agencies. She served as a technical expert for laboratory reporting and data management, data review and validation, and analytical and compliance data reporting.

Landfill Reporting and Assistance | Lee County | Project Manager Elizabeth prepared the groundwater monitoring and technical reports for the Class I, III and Ash Monofill landfills and the CDD Recycling Facility.

Groundwater Monitoring | Polk County | Senior Environmental Specialist Elizabeth provided QA/QC for a variety of key services for the County, including semi-annual groundwater and surface water monitoring and reporting; preparation of groundwater potentiometric maps, preparation of biennial reports of groundwater trends, analysis, and certification; and maintenance of a complete historical database for all analytical data for each site, resolution of permit compliance issues, and interfacing with regulatory agencies.



AREAS OF SPECIALIZATION:

- Water Quality Data Review and Validation
- Analytical Laboratory Management and Coordination
- Water Quality Database Management
- Water Quality Data Reporting for Regulatory Agencies
- Environmental Chemistry Problem Solving for Industrial Applications

YEARS OF EXPERIENCE: 27

YEARS WITH THE FIRM: 12

EDUCATION:

Master of Science, Environmental Engineering Sciences, University of Florida, 2010

Master of Science, Inorganic Chemistry, University of Florida, 1991

Bachelor of Science, Chemistry, University of West Florida, 1986

KIM RIVERA, PE

QA/QC, FIELD DATA COLLECTION & TRAINING

Kim is a Professional Engineer who has managed numerous environmental projects. Kim leads the firm with hazardous building materials assessment and abatement design. She maintains accreditation as an asbestos inspector in Florida and has performed asbestos, heavy metal, and other hazardous materials surveys for municipalities throughout Florida and NASA. Kim also has experience in environmental engineering with emphasis on water and wastewater treatment, water and wastewater pumping and distribution/transmission, and water treatability studies. The projects below demonstrate Kim's experience working with local governments as well as her work for NASA.

SELECTED PROJECT EXPERIENCE

[Indian River Lagoon Salinity Study Review | Brevard County | Project Engineer](#) Kim assisted the Project Manager on this project and coordinated data collection and report preparation.

[141st Avenue Stormwater Pump Station Improvements | City of Madeira Beach | Project Manager](#) Kim was Jones Edmunds' Project Manager for this project, as well as the environmental lead. She coordinated the budget and schedule with the client and performed hazardous material investigations and site visits. She coordinated the subcontractor responsible for the survey and assisted in the stormwater design. Kim was responsible for the lift station design, contract drawings, specifications, cost estimate and schedule. She also coordinated the permit requirements.

[Close Demo Various Facilities | Kennedy Space Center | Project and Task Manager](#) Kim provided engineering services for complete demolition design and construction details for demolishing various facilities and equipment. Kim led the hazardous materials investigation on this project. All of the materials to be demolished had to be analyzed for asbestos and other potentially hazardous substances that could be released during construction. Materials were inventoried and sampled and logs were prepared for the demolition contractor to properly dispose of the materials.

[Sampling, Analysis, and Reporting for Electrical Equipment at Vehicle Assembly Building | Kennedy Space Center | Project Manager](#) Kim was Jones Edmunds' Project Manager for this Study. She was responsible for coordination with the subconsultant and assisted in the hazardous material investigation and data collection on electrical equipment in the VAB. She coordinated with NASA and prepared and supported NASA's meetings with NASA Environmental and NASA Management. Kim was responsible for the report preparation and schedule, and assisted NASA in revising their Environmental Clauses.

[Study to Demolish Evaporators 1, 2, & 3 | Georgia-Pacific | Task Manager](#) Kim was the Lead Environmental Engineer and provided guidance on what materials needed to be evaluated as potentially hazardous and which deconstructed items might need special disposal considerations.



AREAS OF SPECIALIZATION:

- Environmental Engineering
- Hazardous Materials Abatement
- Water/Wastewater Infrastructure
- Asbestos Sampling
- Hydraulic Modeling
- Project Management

YEARS OF EXPERIENCE: 17

YEARS WITH THE FIRM: 13

EDUCATION:

Bachelor of Science, Environmental Engineering, University of Central Florida, 1999

PROFESSIONAL CERTIFICATION:

Professional Engineer, #65681, 2007, FL

Asbestos Inspector, #180647-7034, 2010, FL

PHILIP STEIN

FIELD DATA COLLECTION & TRAINING

Philip is an Environmental Scientist at Jones Edmunds, experienced in wetland delineation, wetland compliance monitoring, plant identification, listed wildlife species surveys, ERP permitting, Phase I Environmental Site Assessments, and asbestos sampling. He will serve as Task support wetland assessments, mapping, delineation, mitigation design, lead and asbestos, contamination environmental sample collection, site evaluations, and Phase I, II, and III Environmental Site Assessments. He has extensive ERP and FWC permitting experience. The projects below demonstrate Philip's experience working with local governments.

SELECTED PROJECT EXPERIENCE

[Phase I Environmental Site Assessment Report | City of Wildwood | Project Manager](#) Philip performed the Phase I Site Investigation, completed field activities, and assisted in report preparation for a 7-acre parcel that the City of Wildwood plans to purchase for a new police facility.

[Wetland Delineation and 10/2 Self Certification | City of Lake City | Associate Scientist](#) Philip delineated the wetland boundary line, assessed the necessity and potential requirements of an on-site stormwater management system, and prepared and submitted a 10/2 Self-Certification application.

[CR214 WTP Demolition | St. Johns County | Associate Scientist](#) Philip provided assistance related to asbestos sampling to demolish the old, unused lime softening water treatment plant units and ancillary facilities.

[Star 4 Phase I Environmental Assessment | St. Johns County | Associate Scientist](#) Philip performed the Phase I EA and assisted with the wetlands impacts analysis.

[Sweetwater/Paynes Prairie Sheetflow Restoration | Gainesville Regional Utilities | Project Scientist](#) Philip assisted the Project Scientist with the wetland and surface water delineation of the project site, extensive tree survey, preparation of the ERP package, and extensive GIS mapping.

[Wellfield Wetland and Well Monitoring | Gainesville Regional Utilities | Project Scientist](#) Philip assisted with field efforts to establish transects in wetlands, characterized vegetation at transect stations, and oversaw the installation of shallow piezometers at the edge of each wetland. Philip compiled and analyzed data and prepared the baseline monitoring report.

[Close Demo Various Facilities | Kennedy Space Center | Field Inspector](#) Philip was responsible for building inspections at numerous NASA facilities to identify potential asbestos containing building materials. Phil provided support to the Project Manager and additional members of the sampling team; including sampling, following NASA safety protocols, entering data collected into access database format, organizing samples collected, and data preparation.

[CR 2209 Wetland Services | St. Johns County | Project Scientist](#) Phil assisted with the wetland delineation, mapping, and reviewed the wetland lines.



AREAS OF SPECIALIZATION:

- Environmental Site Assessments
- Wetland Delineation
- Vegetation Monitoring
- Wildlife Surveys
- Asbestos Sampling
- GIS
- Data Collection

YEARS OF EXPERIENCE: 16

YEARS WITH FIRM: 9

EDUCATION:

Bachelor of Science, Zoology,
North Carolina State University,
2002

GRANT HILL

FIELD DATA COLLECTION & TRAINING

Grant has extensive experience with FDEP water quality compliance monitoring, including groundwater, surface water, soil sampling, hazardous waste, and field chemistry. He has also served as a field representative for construction services for solid waste facility expansion. The projects below demonstrate Grant's experience working with local governments.

SELECTED PROJECT EXPERIENCE

[Alachua County Landfill Compliance Monitoring | Alachua County | Senior Field Technician](#) Grant provides field sample collection services for this project. Jones Edmunds performs FDEP Permit Compliance monitoring and reporting services for groundwater, surface water, leachate, and landfill gas for the closed Alachua County Landfills on a continuing basis.

[Municipal Landfill Compliance Monitoring Services | City of Leesburg | Senior Field Technician](#) Grant provides field sample collection services. Jones Edmunds provides groundwater and landfill gas monitoring, laboratory analysis, reporting, and evaluation monitoring assessment services.

[Permit Compliance Monitoring and Closed Landfill Services | Bradford County | Senior Field Technician](#) Grant performs semi-annual groundwater and surface water compliance monitoring, quarterly gas monitoring, landfill inspection and maintenance, and stormwater field observations. Jones Edmunds provides compliance monitoring, environmental, and solid-waste engineering services.

[Ambient Water Quality Monitoring | St. Johns County | Field Representative](#) Grant performed monthly ambient sampling at four surface water locations at the project site. Jones Edmunds prepared and submitted a QA Project Plan to FDEP for ambient and stormwater sampling of the project site.

[Water Quality Monitoring and SCI | St. Johns County | Field Technician](#) Grant completed ambient water quality sampling at over 20 surface water sites throughout the County. He takes field measurements and grab samples on a monthly basis and delivers samples to the County's wastewater laboratory.

[County Road 2209 STAR 4 Phase II Environmental Site Assessment | St. Johns County | Senior Field Technician](#) Grant provided assistance with collecting soil samples to determine if groundwater and soils are contaminated with lead so that the County could acquire right-of-way through the Star 4 Ranch.

[Commingled Diesel and Asphalt Contamination | Putnam County | Field Technician](#) Grant collected groundwater samples for laboratory analysis. Jones Edmunds investigated diesel releases at a reported asphalt-storage and vehicle-cleaning site within the Putnam County Public Works Facility.



AREAS OF SPECIALIZATION:

- Environmental Site Assessments
- Field Sampling-Monitoring Wells
- Installation of Monitoring Wells and Piezometers
- Soil Sampling
- Surface water Sampling
- Hydrostatic Discharge Sampling

YEARS OF EXPERIENCE: 26

YEARS WITH THE FIRM: 20

PROFESSIONAL CERTIFICATION:

Qualified Stormwater Management Inspector, #31739, 2014, FL

Construction and Demolition Debris Landfill Operator, 2013, FL

Class I and III Landfill Operator, 2013, FL

STEVE MESSICK

FIELD DATA COLLECTION & TRAINING

Steve is a Senior Field Technician who has served on environmental projects. He has extensive water quality field sampling experience that is focused on landfill groundwater and surface water quality monitoring. He also has a background in industrial health and safety. He stays current with FDEP SOPs for field activities and sample collection. Steve provides field services including coordinating specific sampling requirements, mobilization and collection of the field environmental samples, field environmental sample analysis, field data documentation including chain-of-custody, and shipment of samples to the laboratory. The projects below demonstrate Steve's experience working with local governments. The projects below demonstrate Steve's experience working with local governments.

SELECTED PROJECT EXPERIENCE

[Alachua County Landfill Compliance Monitoring | Alachua County | Senior Field Technician](#) Steve conducts FDEP Permit Compliance monitoring services for groundwater, surface water, leachate, and landfill gas for the four closed Alachua County Landfills on a continuing basis.

[Compliance Monitoring and Reporting | Clay County | Senior Field Technician](#) Steve conducts compliance monitoring field services. Steve is responsible for compliance groundwater and surface water monitoring at all landfills in Clay County. This included dedicated well pump repair and maintenance, landfill inspections, and methane gas monitoring.

[Landfill Compliance Monitoring | Putnam County | Field Technician](#) Steve conducts the FDEP permit-required groundwater and surface water monitoring services, including field sampling, laboratory analysis, and reporting services for the Putnam County Central and Huntington Landfill.

[Compliance Monitoring Services | Taylor County | Senior Field Technician](#) Steve conducts compliance monitoring field services. Jones Edmunds is providing continuing services to Taylor County, including landfill compliance monitoring consisting of landfill gas and groundwater monitoring, laboratory analyses, and reporting.

[Citrus Central Landfill Consent Order Assistance | Citrus County | Senior Field Technician](#) Steve conducts the permit-required groundwater compliance monitoring and reporting for the sampling events at the Citrus County Central Landfill. He also conducts the client-requested leachate monitoring and reporting and prepare then submit the interim permit groundwater technical report.

[Lower Bridge Compliance Monitoring | Wakulla County | Senior Field Technician](#) Steve conducted compliance monitoring field services. Jones Edmunds performed extensive data research on the landfill historic operations and testing of the soil and groundwater in the area and prepared a Feasibility Study following DEP Corrective Actions for Contamination Site Cases guidance where we recommended installing gas vents.



AREAS OF SPECIALIZATION:

- Water Quality Field Sampling Services
- Groundwater Monitoring and Remediation
- Asbestos Assessments
- Environmental Site Assessments
- Health, Safety, and QA/QC Compliance

YEARS OF EXPERIENCE: 46

YEARS WITH THE FIRM: 22

PROFESSIONAL CERTIFICATION:

[Asbestos Inspector, #160481-5511, 2013, FL](#)

SUZANNE KAUFMAN, PE

DATA ASSESSMENT, MODELING & REPORTING, PROJECT MANAGER

Suzanne is the Senior Manager for the Water Resources Department in Gainesville. She has over 15 years of experience in water resources engineering, with projects covering water quality monitoring and modeling, watershed planning and modeling, and water resources design. She has managed or served as a Project Engineer for over 20 watershed management plans throughout Florida and has designed flood protection and water quality projects within some of those watersheds. Suzanne is also highly skilled at applying GIS tools for automating model set up and analyzing watersheds. The projects below demonstrate Suzanne's experience working with local governments.

SELECTED PROJECT EXPERIENCE

[Alachua Sink TMDL | Gainesville Regional Utilities \(GRU\) | Project Engineer](#) Suzanne served as the Project Engineer, helping to conduct study for the Alachua Sink TMDL. The first phase of the study primarily focused on providing the FDEP with water quality and flow data. These data were used to calibrate and verify the model being developed by the FDEP to establish the TMDL for Alachua Sink. In the second phase Jones Edmunds analyzed the water quality data and reviewed FDEP's Bathtub Model simulation.

[Flow Monitoring of the Sweetwater Branch | GRU | Project Manager](#) Suzanne managed the project including contacting the client, coordinating and helping perform field work, and coordinating and writing final reports. Jones Edmunds established typical base flows and storm peak flows for the Sweetwater Branch in Southeast Gainesville between SE 4th Street and Williston Road.

[CR 219A Ditch Stabilization and Wetland Mitigation | Alachua County | Engineer](#) Suzanne performed hydraulic modeling using HEC-RAS and prepared ERP documents. She attended meetings with the client and permitting agencies. Jones Edmunds also completed a drainage ditch stabilization plan and wetland mitigation plan for a ditch along CR 219A.

[Stormwater Reviews | Sarasota County | Project Manager](#) Suzanne served as Project Manager and provided project oversight. Jones Edmunds reviewed ICPR models and supporting materials related to roadway, CIP, and development projects throughout the County. Our review followed the County's specific review criteria that are applied to minimize adverse water resource impacts that may result from these projects. The reviews involved a short turn-around time, and Jones Edmunds acted as a direct extension of County staff.

[Alligator Creek Watershed Management Plan | City of Clearwater | Project Manager](#) Suzanne served as Project Manager for this project. She coordinated and communicated with clients and subconsultants, assisted engineer interns, and performed elements from Southwest Florida Water Management District's Watershed Management Program.



AREAS OF SPECIALIZATION:

- Project Management
- Hydrologic Modeling
- Water Quality Modeling
- Environmental Engineering

YEARS OF EXPERIENCE: 16

YEARS WITH THE FIRM: 15

EDUCATION:

Master of Engineering,
Environmental Engineering,
University of Florida, 2002

Bachelor of Science, Environmental
Engineering, University of Florida,
2000

PROFESSIONAL CERTIFICATION:

Professional Engineer, #64726,
2006, FL

BRETT CUNNINGHAM, PE
DATA ASSESSMENT, MODELING & REPORTING,
QA/QC
PUBLIC OUTREACH & REGULATORY ASSISTANCE,
PROJECT MANAGER

Brett is a Jones Edmunds Senior Vice President and the Managing Director of Water Resources with a strong background in flood protection, water quality, water supply, natural systems, integrated water resources planning, and funding procurement. He excels in applying computer models and geographic information systems to assist in planning, problem solving, and developing cost-effective management strategies. Because of his wide range of work experience, Brett understands how projects addressing water resource problems need to be structured to be implementable, affordable, and permissible and to maximize benefits across multiple areas of responsibility. The projects below demonstrate Brett's experience working with local governments.

SELECTED PROJECT EXPERIENCE

[Regional Model Development | St. Johns County | QA/QC](#) Jones Edmunds is assisting St. Johns County in developing and implementing a Stormwater and Water Resources Management Program, transforming the County's approach to water resources from reactive problem solving to proactive solution creation by developing regional models to help the County to manage water quantity and quality to minimize hazard and financial risks to the County residents and visitors. Brett provided QA/QC of the ICPR model and other program elements.

[Sweetwater/Paynes Prairie Sheetflow Restoration | Gainesville Regional Utilities | Senior Project Engineer](#) Brett assisted with model elements of the project that included site grading of over 250 acres and more than 1 million cubic yards of combined excavation and embankment, protection and/or relocation of specimen and heritage trees, floodplain analysis, and detailed hydraulic modeling of treatment and conveyance systems.

[Stormwater Utility Support in the case vs. School Board of Alachua County | City of Gainesville | Expert Witness](#) SBAC challenged the City on whether it had to pay a stormwater-utility fee. Brett reviewed the basis of the charge, performed site-specific calculations on SBAC properties, provided expert-witness testimony, and commented on the opposing expert witness' testimony. The case was settled before going to trial.

[Lee Street Pond Design | City of Leesburg | Sr. Project Engineer](#) Brett directed the preliminary design and assisted with permitting and grant funding from the Lake County Water Authority and FDEP's TMDL grant-funding program that covered most of the project cost.

[Pollutant-Loading Model and Updates | City of Leesburg | Sr. Project Engineer](#) Brett provided quality assurance/quality control services on all aspects of the project. He directed all aspects of model development and calibration and monitoring. He also oversaw project communications and project reports. Jones Edmunds developed a verified pollutant-loading model to accurately estimate loads from proposed land development



AREAS OF SPECIALIZATION:

- Water Resources
- Expert Testimony
- Funding Assistance
- Stakeholder Involvement
- Stormwater Management
- Watershed Management
- Integrated Water Resources
- Geographic Information Systems

YEARS OF EXPERIENCE: 32

YEARS WITH FIRM: 18

EDUCATION:

Master of Engineering,
Environmental Engineering,
University of Florida, 1987

Bachelor of Science,
Environmental Engineering,
University of Florida, 1985

PROFESSIONAL CERTIFICATION:

Professional Engineer, #46050,
1992, FL

designs, estimate the effectiveness of projects intended to reduce pollution, and relate pollutant load to water quality conditions in receiving waterbodies.

[Walnut Creek Subdivision Review | City of Gainesville | Expert Witness](#) Brett provided expert testimony regarding a proposed subdivision challenged by an adjacent homeowners association on the basis that its stormwater retention basins may not work as designed. He reviewed available data, developed design criteria acceptable to all parties, and reviewed design revisions until the criteria were satisfied.

[Stormwater Utility Update | City of Lake City | QA/QC](#) Brett provided technical support and guidance with his expertise in stormwater utilities. He acted as Senior Reviewer for the stormwater utility billing database and helped develop pertinent language included in the updated stormwater utility ordinance.

[SJMCA 2D Modeling | SJRWMD | Senior QA/QC](#) SJRWMD selected Jones Edmunds to create a two-dimensional model that could be used to evaluate proposed physical and/or operational designs for protecting organic soils in the St. Johns Marsh Conservation Area (SJMCA). Jones Edmunds developed a coupled two-dimensional surface water and groundwater model using ICPR v4 of the SJMCA. This model was calibrated using gauge data collected by SJRWMD. Jones Edmunds then used this model to evaluate scenarios for improved protection of the SJMCA. Brett provided senior-level technical guidance and support.

[Mosquito Lagoon Reasonable Assurance Plan | Volusia County | Project Manager](#) Brett managed all aspects of the project, developed the watershed model, and performed the alternatives analysis for this project that included stakeholder involvement. The County's and stakeholders' efforts resulted in an accelerated schedule for becoming eligible for grant funding for implementation projects.

[Stormwater Reviews | Sarasota County | Project Director](#) Brett established guidelines and QC procedures, which provided technical guidance and consistency throughout the project. Jones Edmunds reviewed ICPR models and supporting materials related to roadway, CIP, and development projects throughout the County. The reviews involved a short turn-around time, and Jones Edmunds acted as a direct extension of County staff.

[Lake Sylvia | Pinellas County | Expert Witness](#) Property owners on Lake Sylvia filed a complaint, alleging that the County failed to maintain and pollutes the Lake, has trespassed and created a nuisance, and violated the Environmental Protection Act of 1971. Brett reviewed information discovered by the County Attorney and provided assistance to the County attorney for the Plaintiffs' Expert's deposition.

[Feasibility Analysis and Field Exploration for Flatford Swamp Hydrologic Restoration | SWFWMD | QA/QC](#) Flatford Swamp is a forested wetland in east Manatee County that has received excess water during the dry season due to agricultural practices. Jones Edmunds completed a conceptual design of a surface water recharge project. The project evaluated the feasibility of using recharge wells to restore the hydrologic period and use the water to recharge the Most Impacted Area (MIA) of the UFA. Brett provided QA/QC on the analysis.

TROY HAYS, PG

DATA ASSESSMENT, MODELING & REPORTING

Troy has managed many projects that involve groundwater compliance monitoring, permitting, and contamination assessment/remediation. He specializes in contamination remediation with an emphasis on the implementation of low-cost low-energy-consumption remediation technologies known as “green” remediation. Green remediation systems that have been installed under Troy’s management include passive oxidation trenches, solar- and wind-powered extraction systems, and barometric pressure venting. He has also implemented Risk Assessments and created groundwater flow and contaminant transport models with visual MODFLOW. The projects below demonstrate Troy’s experience working with local governments.

SELECTED PROJECT EXPERIENCE

[Sweetwater/Paynes Prairie Sheetflow Restoration | Gainesville Regional Utilities | Project Geologist](#) Troy served as the Lead Scientist on part of this project. Troy lead the investigation into onsite BaP discovered during construction. We developed a plan to remediate the issue without impacting the construction schedule.

[Commingled Diesel and Asphalt Contamination | Putnam County | Geologist](#) Jones Edmunds investigated diesel releases at a reported asphalt storage and vehicle cleaning site within the Putnam County Public Works facility. Troy conducted/lead the initial rapid site assessment in response to contamination discovered during construction of a water treatment plant. For this project, Geoprobe direct-push drilling technology was used for fast soil and groundwater sample collection and TVA screening.

[Master Reuse System Permit Renewal | City of Clearwater | Geologist](#) Troy designed a groundwater monitoring network (GMN) for the City of Clearwater’s Reuse System. The GMN incorporated the use of previously installed wells and public places to lower costs to the City and to facilitate access to sampling.

[Public Works Excavations-Assess Monitor | Clay County | Project Manager](#) Troy was the Project Manager and Senior Scientist leading the remediation of these sites. He has been working on this project since the initial discovery of the contamination and led the final stages of remediation at all of these sites. This project continued the contamination assessments at the sites and assisted the County with any regulatory issues while Jones Edmunds closed out the consent orders and complete the remediation of each site.

[Assistance with Groundwater Exceedances | Lee County | Task Manager](#) Troy conducted field sampling to delineate the extent of elevated Chloride in groundwater and provided recommendations for the locations of compliance wells as part of the 62-780 Site Assessment in response to elevated Chloride concentrations in MW-105SR. Jones Edmunds assisted Lee County with investigating the recent groundwater parameter exceedances around MW-104S.



AREAS OF SPECIALIZATION:

- Contamination Remediation
- Groundwater Modeling
- Permitting
- 62-780 Site Assessments
- Funding Support

YEARS OF EXPERIENCE: 16

YEARS WITH FIRM: 13

EDUCATION:

Bachelor of Science, Geology,
University of Nebraska Omaha,
2002

PROFESSIONAL

CERTIFICATION:

Professional Geologist, #PG2679,
2011, FL

JOHN HORVATH, PE

DATA ASSESSMENT, MODELING & REPORTING/PUBLIC OUTREACH & REGULATORY ASSISTANCE

John has extensive experience specializing in the planning, analysis, permitting, and design of wastewater collection, treatment, and effluent reuse and disposal systems for Florida municipalities and industry. He has experience as Project Manager, QC Engineer, Project Engineer, and Lead Design Engineer on a variety of multi-disciplined projects. He is well versed in modeling techniques, design, field testing, and applications using a variety of software programs. John has also provided expert witness testimony for litigation involving effluent disposal and stormwater systems. The projects below demonstrate John's experience working with local governments.

SELECTED PROJECT EXPERIENCE

[Walnut Creek Subdivision Review](#) | [City of Gainesville](#) | [Project Engineer](#) John was responsible for performing the analysis of the existing stormwater management system. A proposed subdivision had been challenged by an adjacent homeowners association on the basis that its stormwater retention basins may not work as designed.

[Groundwater Recharge Investigation](#) | [Polk County](#) | [QA/QC](#) John provided senior QA/QC throughout the project to quantify the benefit to the Upper Floridan Aquifer from recharge to Rapid Infiltration Basins operated by Polk County Utilities at the Northeast Regional Wastewater Treatment Facility. The project included several phases including a desktop analysis to determine the overall feasibility of the project.

[Centralized Wastewater System Study, Funding Application, Design, and Construction Administration](#) | [Taylor Coastal Water & Sewer District](#) | [Project Manager/Client Services](#) John was responsible for leading the team, ensuring project scheduling and appropriate allocation of resources, and served as Engineer of Record for all permitting, design, and funding documents.

[East Putnam County Regional Wastewater System Services During Construction](#) | [Putnam County](#) | [Project Manager and Engineer of Record](#) | John was responsible for managing the project team, overseeing the design of the RIBs, and signing and sealing permitting and design documents for this project that involved two different funding sources.

[SJRWMD RIB Feasibility Study](#) | [SJRWMD](#) | [QA/QC](#) John served as QC Engineer on the project to evaluate enhancing the sustainable yield of the UFA in the Keystone Heights area through aquifer recharge via RIBs.

[Sandia Townparc Concurrency Review](#) | [Gainesville Regional Utilities](#) | [Project Manager](#) John provided water and sewer concurrency reviews for proposed Sandia Townparc development. The reviews included hydraulic modeling to determine development impacts to the City's water and sewer systems including extended modeling simulations to determine if additional water storage facilities are required.



AREAS OF SPECIALIZATION:

- Grant and Funding Assistance
- Utility Coordination
- Pumping and Transmission
- Permitting and Design
- Project Management
- Hydraulic Analysis

YEARS OF EXPERIENCE: 30

YEARS WITH FIRM: 30

EDUCATION:

Master of Engineering, 1989, Civil Engineering, University of Florida

Bachelor of Science, 1986, Civil Engineering, Valparaiso University

PROFESSIONAL CERTIFICATION:

Professional Engineer, #47093, 1993, FL

MICHELLE HAYS, MS, PG

DATA ASSESSMENT, MODELING, & REPORTING

Michelle has extensive experience providing environmental site assessment services, lead and asbestos assessments, and contamination assessments. She has experience performing rapid site assessments, geologic field investigations, and field sampling. Michelle has experience preparing and reviewing Phase I reports and developing Phase II sampling plans and preparing Contamination Assessment Reports. She is also an expert in the development of hydrologic models including contamination fate and transport simulations. The projects below demonstrate Michelle's experience working with local governments.

SELECTED PROJECT EXPERIENCE

[Sweetwater/Paynes Prairie Sheetflow Restoration | Gainesville Regional Utilities](#) | [Project Scientist](#) Michelle collected approximately 100 soil samples across the sheetflow restoration area to delineate observed PAH contamination. The results of these samples were used to prepare a Soil Excavation and Disposal Plan for the off-site use of clean soils and the disposal/use of soils with varying concentrations of the observed parameters. Michelle also prepared contamination concentration maps to be used by the contractor during soil removal.

[Groundwater Recharge Investigation | Polk County](#) | [Hydrogeologist](#) Michelle assisted in the development and calibration of a subregional groundwater flow model using MODFLOW to evaluate the beneficial recharge potential of land application through rapid infiltration basins. The project included several phases including a desktop analysis to determine the overall feasibility of the project.

[Public Works Excavations | Clay County](#) | [Geologist](#) Michelle installed monitoring wells and prepared contamination assessment reports. Jones Edmunds provided professional services, including investigation, extensive negotiations with FDEP, excavation, wetlands restoration, and contamination assessment at 11 Clay County Public Works sites with solid waste issues and violations.

[SJRWMD RIB Feasibility Study | SJRWMD](#) | [Project Manager](#) Michelle assisted in preparing a field investigation plan and oversaw the collection of field data at the site. Site-specific data collected at the site included aquifer performance tests of the Surficial and Upper Floridan aquifer systems. Michelle used site-specific data to develop a groundwater model to evaluate the beneficial recharge potential of the site.

[Phase I ESA & Limited Sampling | Alachua County Housing Authority](#) | [Project Manager](#) Michelle reviewed environmental data associated with the site, designed a limited soil and groundwater sampling plan, collected soil and groundwater samples from the site, and prepared the final report with the results of the Phase I investigation and Phase II sampling, which identified Recognized Environmental Concerns (RECs) associated with the property.



AREAS OF SPECIALIZATION:

- Environmental Site Assessments
- Hydrogeological Investigations and Designs
- Water Supply Development
- Contamination Evaluations
- Groundwater Monitoring Plans and Flow Modeling
- Preparation and Implementation of Groundwater Monitoring Plans

YEARS OF EXPERIENCE: 14

YEARS WITH THE FIRM: 11

EDUCATION:

Master of Science, Geological Sciences, University of Florida, 2004

Bachelor of Science, Environmental Studies, University of Nebraska, 2001

PROFESSIONAL CERTIFICATION:

Professional Geologist, #PG2676, 2011, FL

ROBERTO ROSARIO, PE

DATA ASSESSMENT, MODELING & REPORTING

Robert has experience performing steady state and transient hydraulic modeling, pump station design, and piping systems design. He has extensive experience using WaterCAD/WaterGems®. Robert has conducted water system modeling for the cities of Alachua and High Springs. He also played significant roles in the Pinellas County Utilities Water Transmission and Distribution Model Development, Hydraulic Calibration, Fluoride Tracer Verification effort and the potable water modeling for Plant City. He has gained considerable experience modeling large wastewater systems using SewerCAD/SewerGems®, having performed extensive analyses for the Charlotte County and Sarasota County wastewater systems. His modeling project experience also includes the Pinellas County Utilities - Fort DeSoto Elevation Storage Tank Modeling Analysis, the GRU Water Distribution System Model Development and Hydraulic Calibration, and the OTOTW Water System Model Development and Hydraulic Calibration. The projects below demonstrate Robert's experience working with local governments.

SELECTED PROJECT EXPERIENCE

***GRU Strategic Planning | Gainesville Regional Utilities | Engineer III** Robert performed all model updates, capacity studies, master planning, life cycle/cost benefit, and developer connection analyses for the water, reclaimed water, and wastewater systems for two years. Worked with Alachua County Growth Management Department to identify wastewater system service area needs.

Micro Calibration | City of Gainesville | Project Manager Robert led a fire hydrant flow testing field effort, used collected data for model simulation and guided GRU modeler's through hydraulic model micro-calibration.

Sewer Model Assistance | Charlotte County | Project Manager Robert served as the Project Manager for this project, which involved wastewater system modeling for large gravity main interceptors (42- to 60-inch) and master lift station planning.

Bee Ridge Road Improvements | Sarasota County | Hydraulic Modeler Robert performed all hydraulic modeling for the Bee Ridge Road wastewater improvements project. System deficiencies were identified and required lift station and force main improvements were determined to provide capacity through 2030 peak daily flow condition.

Sewer System Investigation/Wal-Mart Connection | City of Macclenny | Designer Robert designed the lift station and force main to replace existing components for increased wastewater capacity.

Zephyrhills Wastewater Master Plan Phase I | City of Zephyrhills | Project Engineer Robert guided development of the City's wastewater system hydraulic model. Robert performed wastewater system model calibration to runtimes and wastewater treatment facility diurnal flows.

* Project completed while employed by GRU.



AREAS OF SPECIALIZATION:

- Hydraulic Modeling
- Water and Wastewater System Design
- Recirculation Pump Station Design, Siting and Analysis
- Water Age Modeling
- Lift Station Design
- Water System Flow and Pressure Testing

YEARS OF EXPERIENCE: 14

YEARS WITH FIRM: 12

EDUCATION:

Bachelor of Science, 2004,
Mechanical Engineering,
University of Florida

PROFESSIONAL CERTIFICATION:

Professional Engineer, #PE72478,
2011, FL

CAROL SAWYER, PE

DATA ASSESSMENT, MODELING & REPORTING

Carol is a Geotechnical Civil Engineer at Jones Edmunds. She has served as Project Engineer or Project Manager on various projects. Carol has a background in geotechnical engineering and is also involved in solid waste and other general civil engineering projects for the purposes of geotechnical investigations, analyzes, and data evaluation. The projects below demonstrate Carol's experience working with local governments.

SELECTED PROJECT EXPERIENCE

[Sweetwater/Paynes Prairie Sheetflow Restoration | Gainesville Regional Utilities \(GRU\) | Project Engineer](#) Carol served as project engineer and provided geotechnical support and review. The design entailed developing detailed site grading plans for a project footprint of over 250 acres and more than 1 million cubic yards of combined excavation and embankment. Extensive hydrologic and hydraulic modeling was performed to develop tools for the design and operation of stormwater conveyance, wetland treatment system, and sheetflow restoration.

[Masters Tract Stormwater Harvesting | St. Johns County | Project Engineer](#) Jones Edmunds permitted, designed, and provided bid services for a stormwater harvesting pumping system at the Masters Tract Regional Stormwater Treatment facility. Carol served as a Project Engineer, providing berm design guidance.

[Tumblin Creek Regional Stormwater Treatment Facility | City of Gainesville | Project Engineer](#) Carol served as Project Engineer for this project, reviewed the drawings and uplift calculations, the sheet pile wall soil parameters and model and other subsurface data, and the geotechnical report.

[Borrow Pit Permit & Wetlands Delineation | New River Solid Waste Association | Project Engineer](#) Carol served as Project Manager and oversaw field investigations, design, and permitting of the project. Jones Edmunds assisted the NRSWA by conducting wetland and geotechnical field investigations to assess soil quality and conducted analyses to assess potential hydrologic impacts to nearby wetlands.

[Holmes Blvd – West King Street Drainage Improvements | St. Johns County | Project Engineer](#) Carol served as Project Engineer for this project, reviewed the subsurface investigation and soils laboratory testing reports, analyzed the lined ponds for buoyancy, and performed global slope stability, veneer slopes stability, and anchor trench design.

[Lee-Hendry Landfill Facility Improvements | Lee County | Project Engineer](#) Carol was in charge of the geotechnical investigation planning and the geotechnical analyses for the design and permitting. Carol was also responsible for review of the soil submittals during construction and assisted with preparing the completion report.



AREAS OF SPECIALIZATION:

- Geotechnical Analysis
- Geotechnical Investigations
- Soil Data Analysis
- Title V Services
- Solid Waste Design and Permitting

YEARS OF EXPERIENCE: 25

YEARS WITH THE FIRM: 19

EDUCATION:

Master of Engineering, Civil Engineering, Rensselaer Polytechnic Institute, 1998

Bachelor of Science, Civil Engineering, Rensselaer Polytechnic Institute, 1993

PROFESSIONAL CERTIFICATION:

Professional Engineer, #55214, 1999, FL

GCI-ICP Certified Inspector, #595-15, 2015, FL

Construction QA/QC for Compacted Clay Liner & GCL Installation, 2015

BRUCE MYHRE, PHD, PE

DESIGN & RESTORATION, PROJECT MANAGER

Bruce is a Project Manager with Jones Edmunds Civil Engineering Department. He has over 25 years of experience providing project management, quality assurance, design, and permitting services for a variety of infrastructure and site design projects, including roadway, stormwater, and site design. Bruce has been involved in private and public sector projects, including projects at the federal, state, and local level. His experience includes client management, supervising interdisciplinary design teams, design, permitting, and construction oversight. The projects below demonstrate Bruce's experience working with local governments.

SELECTED PROJECT EXPERIENCE

[Tumblin Creek Regional Stormwater Treatment Facility | City of Gainesville | Lead Project Engineer](#) Bruce served as Lead Project Engineer for the project. Jones Edmunds completed the final design for construction of a trash and sediment trap to serve as a water quality treatment credit bank for redevelopment and new construction within the Tumblin Creek watershed in the City of Gainesville.

[Hills of Santa Fe, Robin Lane, Sunningdale/Westchester, Oak Crest, and Hayes Glenn HMGP Applications | Alachua County | Project Manager](#) Bruce served as the Project Manager, overseeing the project activities and reviewing the submittal and documentation.

[Hogtown and Possum Creek Culvert Design | City of Gainesville | Project Manager](#) Bruce served as the Project Manager and oversaw all aspects of the design as well as the project team. Jones Edmunds designed drainage improvements for the Hogtown and Possum Creek crossings of NW 8th Avenue that will restore historic characteristics and functionality of the creek floodplain areas north and south of Northwest 8th Avenue.

[San Diego Road Drainage Improvements | St. Johns County | Project Manager](#) Bruce is the Project Manager for this drainage improvement project. He developed an alternatives analysis to alleviate flooding at this intersection.

[Holmes Blvd – West King Street Drainage Improvements | St. Johns County | Project Manager](#) Bruce was the Project Manager for this drainage improvements project. He led internal, client, and agency meetings and led the design and permitting of stormwater management alternatives.

[Masters Tract Stormwater Harvesting | St. Johns County | Project Manager](#) Bruce was the Project Manager for the Masters Tract Stormwater Harvesting System. He led the preparation of the funding application to SJRWMD. Jones Edmunds permitted, designed, and provided bid services for a stormwater harvesting pumping system at the Masters Tract Regional Stormwater Treatment facility.

[Reid Packing House Road Safety and Drainage Improvements | St. Johns County | Project Manager](#) Bruce was the Project Manager for this roadway and drainage improvement project. The project provided improvements by moving headwalls and culverts out of the clear zone.



AREAS OF SPECIALIZATION:

- Project Management
- Roadway Design
- Civil Engineering
- Stormwater/Drainage Improvements
- Quality Assurance
- Site Design
- Development Review

YEARS OF EXPERIENCE: 26

YEARS WITH FIRM: 5

EDUCATION:

Doctorate, Agricultural Engineering, University of Florida, 1996

Master of Engineering, Agricultural Engineering, University of Florida, 1988

Bachelor of Science, Agricultural Engineering, University of Florida, 1986

PROFESSIONAL CERTIFICATION:

Professional Engineer, #50634, 1996, FL

WALT NICKEL, PE

DESIGN & RESTORATION, QA/QC PUBLIC OUTREACH & REGULATORY ASSISTANCE

Walt has over 30 years of experience providing a wide range of civil engineering services to local, state, and federal governments. He has coordinated engineering activities for infrastructure projects as well as industrial and commercial site development projects. Walt has served as a Project Manager and Design Engineer on roadway design and improvement/rehabilitation, bridge design and rehabilitation, site development and expansion, site/utility design, and stormwater design projects. The projects below demonstrate Walt's experience working with local governments.

SELECTED PROJECT EXPERIENCE

[Sweetwater/Paynes Prairie Sheetflow Restoration | Gainesville Regional Utilities \(GRU\) | Project Manager](#) Walt managed in-house design teams and various subconsultants for the design phase and served as senior design engineer for all civil/site elements including wetland cell grading, berm design, sediment basin design, and roadway design.

[Burbank and Douglas Roads Peer Review | City of Oldsmar | Project Manager](#) Jones Edmunds performed a peer review of design documents prepared by another firm for the widening of Douglas Road and Burbank Road. Walt served as the Project Manager and senior technical adviser.

[Hills of Santa Fe, Robin Lane, Sunningdale/Westchester, Oak Crest, and Hayes Glenn HMGP Applications | Alachua County | Senior Engineer](#) Walt prepared preliminary design and alternative analyses, including construction cost estimates.

[NE SAFETEA-LU Roadway Improvements | City of Gainesville | QA/QC](#) Walt served as the overall project QA/QC. This project included approximately \$2.11 million in federal monies being administered by the City of Gainesville through a Local Agency Program agreement with FDOT.

[Tumblin Creek Final Design | City of Gainesville | QA/QC](#) Walt provided QA/QC of the plans, specifications, and storm flows and coordinated with Public Works staff and the CMAR. Jones Edmunds performed civil design and environmental resource permitting for an inline regional stormwater treatment system.

[Holmes Blvd – West King Street Drainage Improvements | St. Johns County | QA/QC](#) Walt served as the overall QC for this drainage system and stormwater project pond associated with intersection improvements at West King St. and Holmes Blvd.

[Pensacola Street Outfall | City of Tallahassee | QA/QC](#) Walt provided analysis of storm sewer flows and pipe velocities, participated in constructability reviews, and performed detailed quality reviews of calculations and construction documents.

[Hogtown and Possum Creek | City of Gainesville | QA/QC](#) Walt served as overall project QA/QC and helped resolved design issues for various design facets. Jones Edmunds designed drainage improvements for creek crossings of NW 8th Avenue to restore historical characteristics and functionality of the floodplain areas north and south of NW 8th Avenue.



AREAS OF SPECIALIZATION:

- Drainage Design and Stormwater Calculations
- Civil Engineering
- Project Management
- Roadway Design and Improvements
- Infrastructure
- Site Development

YEARS OF EXPERIENCE: 34

YEARS WITH FIRM: 10

EDUCATION:

Bachelor of Science, Civil Engineering, Cleveland State University, 1985

PROFESSIONAL CERTIFICATION:

Professional Engineer, #68638, 2008, FL

AMY GOODDEN, PE

DESIGN & RESTORATION

Amy is an Environmental Engineer with Jones Edmunds Civil Design Department. She is knowledgeable in State and Federal permitting regulations. Amy provides a bridge between conceiving the project using modeling and developing the final design documents used for construction. Her experience includes design and modeling of wetland restoration and mitigation projects, stormwater treatment, and water and wastewater treatment systems. The projects below demonstrate Amy's experience working with local governments.

SELECTED PROJECT EXPERIENCE

[Sweetwater/Paynes Prairie Sheetflow Restoration | Gainesville Regional Utilities \(GRU\) | Project Engineer](#) Amy supported the design basis and philosophy for a stormwater park and treatment wetland. She integrated concerns for aesthetics and public access into the design, which accommodated high peak flows, removed sediment and trash, and provided extensive erosion control. Jones Edmunds completed a comprehensive preliminary engineering report and obtained the necessary permits for this project, which is constructed.

[Low Impact Development \(LID\) Manual Assistance | Alachua County | Project Engineer](#) Amy led the Jones Edmunds' team in developing alternatives LID conceptual designs that could be used as case studies to support the Alachua County LID manual. In addition, Amy developed opinions of construction costs for the LID designs and compared those to the traditional stormwater design costs.

[Tumblin Creek Regional Stormwater Treatment Facility | City of Gainesville | Project Engineer](#) Amy was the Engineer of Record for design of the regional stormwater treatment facility. She provided inspection services for major project components.

[Hogtown and Possum Creek Culvert Design | City of Gainesville | Project Engineer](#) Amy served as the Civil Engineer for the project, designing the drainage system and preparing and permitting permit documents.

[Crane Creek M-1 Canal Flow Restoration Design | St. Johns River Water Management District | Task Manager](#) Amy is serving as a Task Manager to help expand the treatment and restore flows from the basin and reduce freshwater loads flowing into the Indian River Lagoon.

[Masters Tract Regional Stormwater Treatment Facility | St. Johns County | Project Engineer](#) Amy developed the design basis and philosophy for a stormwater treatment area for agricultural runoff and prepared the FDEP 319 Grant application package.

[Upper West Ditch PER | City of Tallahassee | Task Manager](#) Amy reviewed stormwater hydrologic and hydraulic models, and water quality data for the Upper West Ditch and evaluated the feasibility of RST/stormwater retrofits for City-owned property adjacent to the Upper West Ditch and the San Luis Pond by quantifying benefits and costs.



AREAS OF SPECIALIZATION:

- Wetland Restoration and Mitigation Design
- Stormwater and Environmental Permitting
- Stormwater Modeling, Design, and Permitting
- Stormwater Pollution and Prevention Plans

YEARS OF EXPERIENCE: 18

YEARS WITH FIRM: 10

EDUCATION:

Master of Engineering, 2000,
Environmental Engineering,
University of Florida

Bachelor of Science, 1999,
Environmental Engineering,
University of Florida

Bachelor of Science, 1994,
Environmental Science, Florida
Institute of Technology

PROFESSIONAL CERTIFICATION:

Professional Engineer, #60097,
2003, FL

AUSTIN WOOD, PE

DESIGN & RESTORATION

Austin is a Civil Engineer with a focus on water resources engineering. He has more than 10 years of experience in working with clients in the planning, design, permitting, and management of water resources and environmental projects. Austin has served as Task Manager on several watershed management projects assessing flooding issues, identifying solutions, planning for water quality improvements, and managing current and future stormwater impacts for city and county agencies. The projects below demonstrate Austin's experience working with local governments.

SELECTED PROJECT EXPERIENCE

Masters Tract Stormwater Harvesting | St. Johns County | Project Engineer | Jones Edmunds permitted, designed, and provided construction phase services for water quality improvements for the Masters Tract Regional Stormwater Treatment (RST) facility. Austin served as a Project Engineer, providing stormwater modeling services.

VIC Stormwater Study | NASA | Project Engineer | Jones Edmunds performed a study to mitigate flooding in portions of the Kennedy Space Center Visitor Complex (KSCVC) parking lots and an evaluation of regulatory requirements and costs for a 20-year build-out. Justin was the lead water resources engineer performing basin modeling and engineering analysis of various options for flood mitigation.

Bushnell WMP Peer Review | Southwest Florida Water Management District (SWFWMD) | Task Manager
Austin served as a Task Manager on this project and performed the bulk of consultant deliverables review. SWFWMD contracted with Jones Edmunds to provide Peer Review services for the Bushnell WMP, which was performed by another consultant. We reviewed the following deliverables and provided comments within a geodatabase: Watershed Evaluation, Parameterization, and Model Development and Floodplain Delineation.

Impervious Area Impact Analysis | City of Atlantic Beach | Project Manager Jarrod managed this project, performed analysis, and directed a team to help complete the analysis. Jones Edmunds analyzed the impact of increasing impervious coverage on the City's stormwater collection system and how much of that impact could be mitigated by reducing the allowable impervious area on residential lots to 40 percent.

Williston WMP | SWFWMD | Project Engineer Austin served as Project Engineer on this project that consisted of selected elements from SWFWMD's Watershed Management Plan Guidelines & Specifications. Primary tasks include generating digital topographic information from new LiDAR data, development of a watershed evaluation report, identification of surveys to be performed and preliminary junction/reach coverage development, model simulations, and floodplain mapping.



AREAS OF SPECIALIZATION:

- Environmental Engineering
- Hydrologic Modeling
- Water Quality Modeling
- Stormwater Management Inspections
- Pipe Assessment

YEARS OF EXPERIENCE: 10

YEARS WITH FIRM: 4

EDUCATION:

Bachelor of Science, 2008, Civil Engineering, University of Florida

PROFESSIONAL CERTIFICATION:

Professional Engineer, #77088, 2015, FL

Pipeline Assessment and Certification Program (PACP), Lateral Assessment and Certification Program (LACP), Manhole Assessment and Certification Program (MACP), NASSCO, U-116-07002603, 2016

TERRI LOWERY

PUBLIC OUTREACH & REGULATORY ASSISTANCE, QA/QC

Terri will serve as a resource to the team and County on grant administration, which includes funding, public involvement, and regulatory assistance. She has more than 30 years of experience working with clients and technical staff on project funding strategies and public involvement programs. She is a registered lobbyist and assists with legislative tracking and grant pursuits, organizing and conducting funding workshops, and monitoring and reporting on legislative activities. Terri is also experienced in organizing and coordinating public meetings, media communication and celebration events in support of community milestone projects including developing presentation materials, establishing speakers' bureaus, organizing and conducting public meetings, and interfacing with the media. The projects below demonstrate Terri's experience working with local governments.

SELECTED PROJECT EXPERIENCE

[Northeast Gainesville SAFETEA-LU Roadway Improvements | City of Gainesville | Public Information Specialist and Client Services](#) Terri assisted the City with neighborhood meetings regarding this project. Major participants included local residents who will be affected by the improvements, the City, and in particular the Public Works Department and the funding agencies, FDOT, and FHA.

[Lee Street and Canal Street Stormwater Improvements | City of Leesburg | Client Services](#) Terri worked closely with City staff and supported with the procurement of grant funding for this project. Jones Edmunds designed, permitted, and monitored two stormwater management facilities to address flooding and water quality concerns in the Whispering Pines Basin.

[Development Reviews | City of Wildwood | Client Services](#) Terri is liaising between the client and team to help provide development reviews on behalf of the City.

[BMAP Project Assistance | Citrus County | Client Services/Funding Specialist](#) Terri worked with the Water Resources Department to identify and organize the springs projects in the 20-year horizon for FDEP review.

[Garcia Point Septic Tank Removal | Citrus County | Client Services/Funding Specialist](#) Terri worked with the County to redirect pre-existing legislative funds to the septic to sewer project and procure springs dollars for this project. She also led the planning effort for the Open House to explain the project.

[Regional Wastewater System and Treatment Plant | Putnam County | Public Information Specialist](#) Terri served as client liaison working closely with the County Administrator as well as the funding specialist for the project which involved two different funding sources. She also negotiated user rates and contract with the Department of Corrections.

[Sewer Master Plan | Charlotte County | Public Information Specialist](#) Terri worked with the technical team and County to prepare numerous BOCC presentations and the initial public meeting.



AREAS OF SPECIALIZATION:

- Funding and Legislative Workshop Coordination
- Community/Public Relations Programs
- Funding Assistance
- Legislative Coordination and Support
- Communication and Media Development
- Marketing Research and Promotional Activities

YEARS OF EXPERIENCE: 33

YEARS WITH FIRM: 29

EDUCATION:

Bachelor of Science, Business Administration/Marketing, University of Florida, 1986

PROFESSIONAL CERTIFICATION:

Registered Lobbyist, 2006, FL

JAMIE BELL, PE, CFM

PUBLIC OUTREACH & REGULATORY ASSISTANCE

Jamie is an Engineer within Jones Edmunds' Infrastructure Discipline. She has experience with grant application and administration and assisting local government entities with water supply, water quality, flood protection, and natural resource restoration projects. Through her prior experience in permitting, project management, and grant administration for the Suwannee River Water Management District, Jamie is intimately familiar with the unique needs and challenges of small, rural communities. Jamie has played a key role in preparing contracts, reviewing engineering design plans, facilitating funding reimbursement requests, and tracking project schedules and budgets. She also has extensive project management experience, overseeing site inspections, permit applications, wetland assessments, and water quality sampling and monitoring schedules. The projects below demonstrate Jamie's experience working with local governments.

SELECTED PROJECT EXPERIENCE

[Hills of Santa Fe, Robin Lane, Sunningdale/Westchester, Oak Crest, and Hayes Glenn HMGP Applications | Alachua County | Funding Specialist](#) Jamie coordinated the HMGP application including design and GIS efforts. She also proved instrumental in coordinating the project with Alachua County and making sure the project was submitted within FEMA's deadline.

[HMGP Application Package | Town of Yankeetown | Project Manager](#) Jamie provided oversight and assisted the Town of Yankeetown with the preparation of four Hazard Mitigation Grant Program applications.

[SRF Loan Application Assistance | City of Tavares | Grant/Funding Assistance](#) Jamie assisted with the completing of the loan applications. Jones Edmunds prepared and submitted the SRF Drinking Water and Clean Water Loan Applications for the City of Tavares Lake Frances Infrastructure Improvements.

[*RIVER Governmental Cost Share Program | Suwannee River Water Management District \(SRWMD\) | Project Manager](#) Jamie assisted in the administration of SRWMD's annual \$1.5 million per year RIVER grant program, which included approximately 35 projects. Jamie's responsibilities consisted of budget development and management, contract drafting and execution, technical review of engineering design plans, approval of deliverables, site inspections, overall project documentation and tracking, and other duties as needed.

[*Ichetucknee Springshed Water Quality Improvement Project | City of Lake City | Project Manager](#) | Jamie's responsibilities included management and tracking of an approximately \$5.1 million budget that consisted of FDEP Springs grant funding, SRWMD funding, and City and County match. She was also responsible for managing subcontractors, conducting site inspections and wetland assessments, reviewing water quality sampling data, acting as a liaison and providing regular communication with project partners, thoroughly documenting project progress, and other duties as needed.

* Project completed while employed by SRWMD.



AREAS OF SPECIALIZATION:

- Grant and Funding Assistance
- Permitting
- Environmental Engineering
- Site Development
- Floodplain Management
- Project Management

YEARS OF EXPERIENCE: 5

YEARS WITH FIRM: 1

EDUCATION:

Master of Science in Engineering, Environmental Engineering, University of Florida, Ongoing

Bachelor of Science, Agricultural and Biological Engineering, University of Florida, 2013

PROFESSIONAL CERTIFICATION:

Professional Engineer, #84793, 2018, FL

ASFPM Certified Floodplain Manager, #US-18-10238

FL Certified Contract Manager, #2611-16041

FDEP Stormwater Erosion and Sedimentation Control Inspector, #38688

MATT O'BRIEN, PE

PUBLIC OUTREACH & REGULATORY ASSISTANCE

Matt is a Project Engineer with Jones Edmunds and will lead civil-related engineering, design, and permitting services for the County under this Contract. His expertise encompasses site-civil, roadway, stormwater management, and utilities. He has designed numerous site development and roadway projects and has successfully permitted many Polk County projects through the County's Land Development Division and FDEP. The projects below demonstrate Matt's experience working with local governments.

SELECTED PROJECT EXPERIENCE

[Burbank and Douglas Roads Peer Review | City of Oldsmar](#)
Project Engineer Jones Edmunds performed a peer review of design documents prepared by another firm for the widening of Douglas Road between Commerce Boulevard and Burbank Road as well as Burbank Road from Douglas Road to approximately 75 feet south of the CSX at-grade railroad crossing. Matt performed the technical/peer reviews of the design documents.

[NE SAFETEA-LU Roadway Improvements | City of Gainesville](#)
Lead Designer Engineer Matt served as Lead Design Engineer Intern for this project. His work first consisted of assessing project feasibility and analyzing alternatives. Matt made site visits, attended the meetings and prepared materials for the presentations including incorporating revisions from comments, prepared ICPR models and stormwater model calculations, and preparing and coordinating the design plans and drawings and cost estimates throughout all facets and phases of the project.

[EAR Data and Analysis Update | Putnam County](#)
Engineer Matt worked on the update the data and analysis information for the Infrastructure and Conservation Elements of the County's Comprehensive Plan.

[Sweetwater/Paynes Prairie Sheetflow Restoration | Gainesville Regional Utilities](#)
Engineer Matt served as Lead Quality Control throughout the design of the project. He also served as a Project Engineer for design of roadway and parking facilities.

[Duval Regional Stormwater Park | City of Gainesville](#)
Engineer Matt provided civil engineering design services and supporting calculations for construction of a piped stormwater system draining into a new stormwater retention pond. Part of the project included design of a nature path on the City of Gainesville's property. He also prepared bidding and contract documents, technical specifications, and cost estimating.

[Holmes Boulevard-West King Street Intersection Improvements | St. Johns County](#)
Engineer of Record and Resident Engineer Matt provided design, permitting, and construction administration services for a stormwater management system for the intersection improvements.

[Lake Jesup Flow Restoration Feasibility Analysis | SJRWMD](#)
Project Engineer Matt developed preliminary channel layouts and construction cost opinions for this project to enhance water quality and habitat through improved water exchange between the St. Johns River and the east portion of Lake Jesup.



AREAS OF SPECIALIZATION:

- Roadway and Stormwater Drainage & Design
- Transportation Design
- Traffic Impact Studies
- Site Development

YEARS OF EXPERIENCE: 12

YEARS WITH FIRM: 12

EDUCATION:

Bachelor of Science, Civil Engineering, University of Florida, 2007

PROFESSIONAL CERTIFICATION:

Professional Engineer, #73893, 2012, FL

TAB. 3 – CONSULTANT’S QUALIFICATIONS AND STAFF

CURRENT WORKLOAD

Jones Edmunds understands the value our clients place on working with partners who are available and accessible to their staff and project sites. **We opened our headquarters here in Gainesville in 1974, and it has been a mainstay in Alachua County for the past 45 years. Our employees live, work, and play in this community.**

Jones Edmunds is prepared to commit the necessary resources to achieve your project goals and to meet the County’s time and budget requirements. We understand the importance of timeliness and, therefore, with an effective work management plan, we can draw on a large network of Company-wide resources when needed to ensure that we complete projects on schedule.

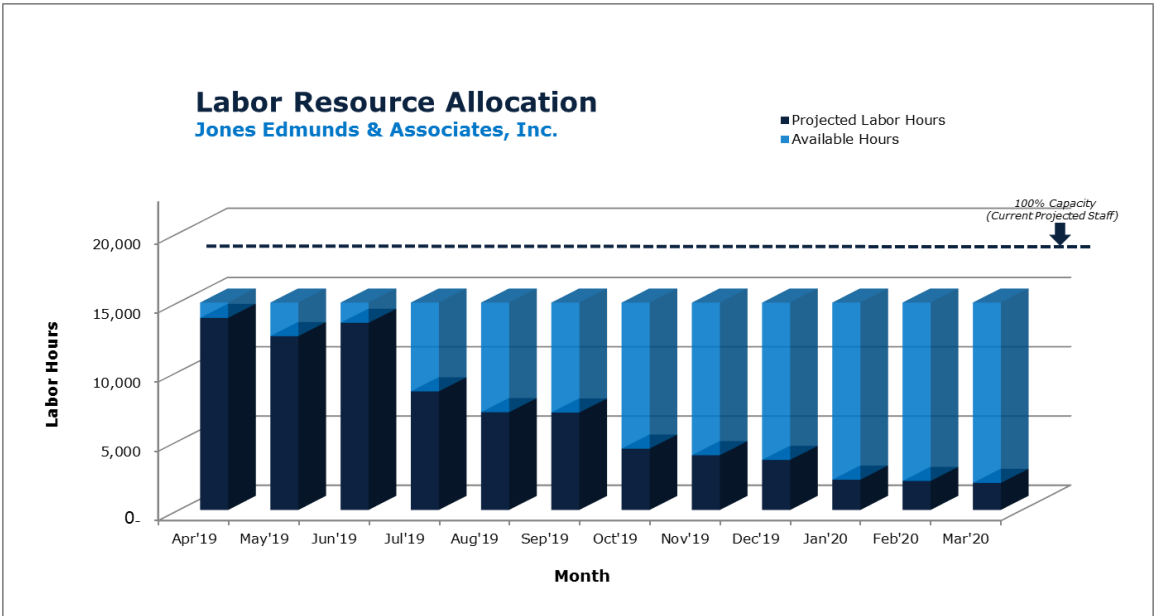
Our staff routinely shares work and resources between offices. We use Internet meetings, videoconferencing, and telecommunications to help coordinate team members in all our offices. All Jones Edmunds offices are linked electronically, thereby facilitating seamless report, design, drafting preparation, production and coordination. Jones Edmunds has procedures, computer software, and databases that allow us to track project progress and monitor available resources for assignment to projects. We monitor projects bi-weekly to ensure that we can meet all project commitments and that resources are properly allocated. We will use this approach to ensure that the allocated personnel and resources are maintained to complete projects on time and within budget.



We routinely analyze current and projected workloads to ensure proper allocation of resources. We analyzed our personnel resources for the proposed project team in conjunction with the resources you will need for this project. Based on this analysis, we are fully prepared to commit the necessary resources to properly complete projects within this Contract.

In the event of unforeseen circumstances that would alter the staff or their availability as stated in this proposal, we have backup staff available. Jones Edmunds’ technical staff, all located in Florida, includes over 120 individuals. The following diagram assumes that we maintain current staff levels and account for current projected bookings over the next year, April 2019–March 2020.

FIRM AVAILABILITY



This labor resource allocation figure displays availability for the entire firm over the next year.

TAB. 3 – CONSULTANT’S QUALIFICATIONS AND STAFF

JONES EDMUNDS FIRM OVERVIEW

Jones Edmunds is a Florida-based, multi-disciplinary engineering corporation that has been providing quality consulting services to public and private entities in Florida since 1974. Jones Edmunds has over 120 technical staff members serving clients from seven offices in Gainesville, Jacksonville, Sarasota, Tampa, Titusville, Winter Haven, and West Palm Beach.

CORE VALUES

At Jones Edmunds, our core values are Integrity, Knowledge and Service. Serving our municipal and county clients is critical to our mission. We work with our clients to find long-term, cost-effective solutions to their environmental and engineering needs. For more than 44 years, we have been working with municipalities and counties in Florida to preserve resources, reduce costs, and improve service to their citizens.

PROFESSIONAL SERVICES

At Jones Edmunds, quality means more than just a good technical product—it means being responsive to the needs of our clients, providing staff experienced in the specific disciplines required for each project, listening to and understanding the goals and expectations, and communicating throughout each project phase to achieve the desired outcome. Because of this exceptional dedication and service, we have developed many longstanding professional relationships with clients who know that they can rely on us. Jones Edmunds offers stable and consistent service, including continuity in senior-level personnel and financial stability (Jones Edmunds maintains a 3A1 Dunn & Bradstreet rating).

The following presents a summary of our experience with each of the scope of services items listed on RFP pages 6 and 7. We combined these requested services into the four general categories as presented in our staff organizational chart.

FIELD DATA COLLECTION & TRAINING

Field Sampling and Data Collection



Jones Edmunds provides our clients with comprehensive environmental monitoring services including environmental field sampling and investigation, data interpretation and management, and regulatory reporting. We have in-house protocols to streamline the entire process from field to final reporting - from the expertise of our field technicians, to how we review the collected field and laboratory data, to the methods for preparing regulatory agency electronic data deliverables (EDDs). These processes greatly increase the efficiency and accuracy of all data we collect and often results in significant monetary savings for our clients.

Jones Edmunds has been responsible for compliance monitoring services for the five Alachua County Landfills since 1992, including field sampling, subcontracting laboratory analyses, preparing compliance reports, and reviewing permit issues. We have also been responsible for the environmental monitoring permit requirements of the former Leachate Disposal Facility and the Transfer Station. We provide fully reviewed and finalized electronic data deliverables to with Florida Department of Environmental Protection (FDEP) in the ADaPT format. Jones Edmunds has successfully negotiated with FDEP on numerous occasions for reductions in monitoring requirements at the landfills. One example was a reduction of groundwater requirements at the Southwest Landfill, which **saved Alachua County approximately \$25,000 per year in analytical costs and an additional \$18,000 per year in reduction of other permit requirements.**

Each sampling project starts with all project team members being informed of technical, schedule, and budget requirements. When necessary, regulatory agency staff are consulted or informed of critical issues. Tim Cully is the Task Leader for these services and will coordinate scheduling and sampling requirements with the County and maintain project communication throughout the field investigation efforts. Our in-house protocols are detailed below.



TAB. 3 – CONSULTANT’S QUALIFICATIONS AND STAFF



Jones Edmunds field technicians use FDEP and other regulatory standard operating procedures (SOPs) for field planning and sampling activities. Each field technician who performs sampling tasks maintains a copy of the FDEP SOPs and has them available in the field. During project startup and before each sampling event, Tim will review the contract and any FDEP permit or other regulatory requirements for the project.

The team members implement the sampling schedule requirements. This includes preparation by the field technicians, equipment and vehicle coordination, order and receipt of sample containers from the laboratory, chain-of-custody tracking, and notification and coordination with County staff as needed.

Jones Edmunds field technicians are experts with FDEP SOPs and will conduct the field sampling for any projects under this RFP in accordance with FDEP Standard Operating Procedures for Field Activities (FDEP-SOP-001/01). Sampling events will be scheduled and conducted so that project deadlines are accomplished. Sampling will be scheduled to allow for adequate laboratory analysis time and report processing and review time.

Following the sampling event, the field technicians ship the samples to the analytical laboratory. Samples collected on County projects will be shipped or delivered to Environmental Consulting Laboratories, Inc. (ENCO), our laboratory analytical services provider. This ensures that ENCO will receive the samples within FDEP-mandated holding times. ENCO has been a long-term service provider for the ongoing Alachua County landfill monitoring projects and has a solid track-record of dependability, accuracy, efficiency, and cost-competitive services with Jones Edmunds and the County.

The field technician will forward all field documentation to the Jones Edmunds reporting staff. The field technician will report any site-specific issues to Tim, who will review this information and report any problems to County staff. Appropriate FDEP notification will be made if required. Any problems will be discussed with County staff so that solutions can be determined.

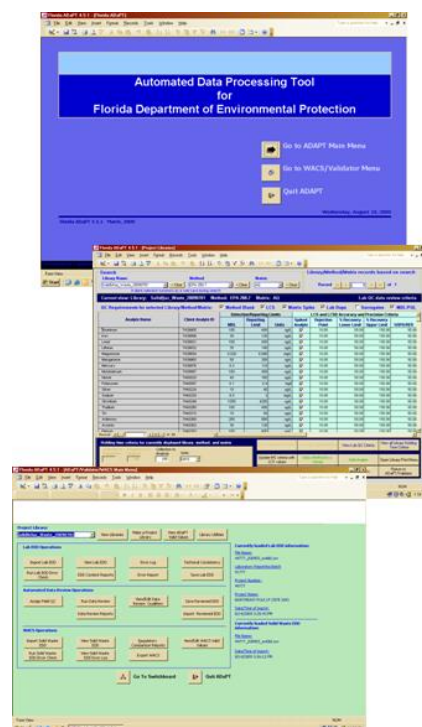
Compilation, Interpretation, and Reporting of Field Data and Laboratory Analysis

Between completion of the sampling event and receipt of the laboratory analyses, Tim or his designee will review the project schedule to ensure that deadlines are met.

ENCO personnel document the incoming samples as specified by FDEP SOPs. If emergency situations arise, sufficient laboratory backup is available to avoid compromising any samples. Reports from ENCO will be generated and forwarded to Jones Edmunds reporting staff. All laboratories that Jones Edmunds works with strictly follow all applicable US Environmental Protection Agency, FDEP, Florida Department of Health, and other protocol. Any chain-of-custody discrepancies discovered by ENCO personnel will be discussed with Tim.

Standard turn-around time for laboratory analyses is 10 working days. The laboratory data are tracked by the Jones Edmunds reporting staff to ensure analyses are received on time. Completed laboratory reports will be forwarded to the Jones Edmunds reporting staff in paper copy and by electronic data. The laboratory will also forward ADaPT-ready EDDs to be reviewed and verified by Jones Edmunds reporting staff. The EDDs will be finalized and forwarded to FDEP (if appropriate), thereby meeting the ADaPT reporting requirements.

The Jones Edmunds reporting staff will review the laboratory reports and EDDs for accuracy, completeness, comparison to historical data, and QA/QC issues. Our reporting staff includes personnel with laboratory analytical and laboratory



TAB. 3 – CONSULTANT’S QUALIFICATIONS AND STAFF

management experience, which is a great asset to Jones Edmunds and our clients in reviewing and processing the analytical data.

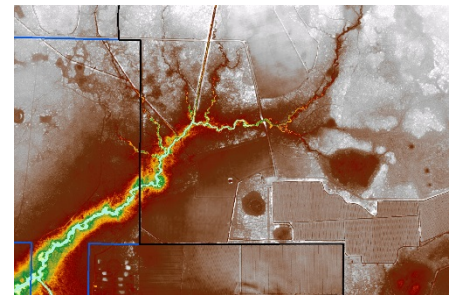
Following data review, any data questions will be sent back to the laboratory for verification or, if necessary, for analytical rerun. This process will be performed expeditiously so that samples can be reanalyzed within holding times if necessary. Parameters outside standards are reviewed and a determination will be made regarding resampling. ENCO reanalyzes samples at no extra cost to Jones Edmunds or the County, so quick review of data and request for reanalysis are a significant cost-saving service provided by Jones Edmunds. In the rare event that samples are compromised by ENCO, ENCO will bear the expense of resampling, thereby eliminating additional expense to the County.

Jones Edmunds reporting staff will enter the laboratory data into a database specifically designed to process analytical monitoring data and generate the various tables, forms, maps, and graphs required for the respective report of concern. The reporting staff checks and reviews the draft reports extensively to ensure that accurate and complete data are submitted to the County. Tim reviews the draft reports, with final review by the qualified surface water or groundwater professional.

Following review of the draft report by the County staff and discussion with Jones Edmunds project management personnel, any necessary or desired changes will be made to the report and the report will receive a final review. The completed report will be provided to the County and to other regulatory agencies, if necessary. Jones Edmunds’ Gainesville location ensures excellent communication with and availability to County staff members. During all phases of report generation and review, the appropriate input and review from Tim, QA/QC Officer, and the qualified surface water or groundwater professional will be incorporated. Reports will be signed and sealed by the qualified surface water or groundwater professional.

Wetland Delineation and UMAM Assessment

Our Ecology group, led by B.J. Bukata, will address all your wetland-related service needs. We employ ecologists who are experts in wetland delineation and endangered species inventories. Our experts are also ready to serve Alachua County with listed wildlife species permitting such as for the gopher tortoise, which is often found on project sites. B.J. and his supporting ecologists are also highly experienced with the use of geographic information system (GIS) and global positioning system (GPS) equipment, which are invaluable and powerful tools.



Our ecologists use a wide array of in-house GIS datasets such as land cover, digital elevation models, aerial imagery, etc. that allow our staff to complete comprehensive desktop assessments before field work to maximize efficiency in the field. A preliminary GIS data analysis can provide valuable information such as estimated wetland extents and potential for listed wildlife species. Using these data, we can provide the County Project Manager with maps depicting items like environmental constraints that will present permitting challenges and schedule implications. After reviewing this information and confirming site selection, our team will delineate jurisdictional wetland and surface waters and coordinate surveyors as needed to locate our flags. We use GPS units in the field to collect the flag locations so that we can provide the surveyor and the County Project Manager with wetland maps before a formal survey is delivered. In addition, our hydric soils expertise allows us to complete delineations efficiently and accurately and determine the elevation of seasonal high-water table that is critical for the stormwater treatment and ecosystem restoration design.

Our ecology group has completed hundreds of Uniform Mitigation Assessment Method (UMAM) assessment analysis from simple to complex projects. In addition, we have worked closely with the SJRWMD’s Barbara Hatchitt and US Army Corps of Engineers Bo Davidson on many projects that required UMAM analysis who would likely be the regulatory reviewers for County projects.

TAB. 3 – CONSULTANT’S QUALIFICATIONS AND STAFF

Asbestos Abatement Project Plans, Site Surveys, Abatement, and Training

Jones Edmunds augmented its team with OHC Environmental Engineering (OHC) for this project to provide the County with asbestos-related services. OHC provided asbestos related services for hundreds of facility renovations or demolition, including drawings, specifications including abatement, handling and disposal, and hazardous material surveys and has over 40 years of experience. With the addition of OHC, our Team can provide asbestos related services for all your asbestos needs - including training of County staff and expert witness testimony. OHC is fully experienced in the preparation of specifications for the safe and timely abatement of asbestos-containing materials and has prepared hundreds of specifications based on the National Institute of Building Sciences’ Guide Specification (NIBS) for both the public and private sectors. The scope of OHC’s specifications has included small structures through large-scale industrial power plants, universities, and county school districts. They will also provide detailed project timelines and cost opinions.

If removal of asbestos or lead containing materials is necessary, our Team can act as the owner’s representative to ensure abatement work is performed in accordance with project specifications or designs prepared by our Team. Our field personnel routinely perform sampling and monitoring for area, breach, and building occupants during abatement activities to determine if violations or regulatory standards occur during abatement actions. Our Team has the personnel on staff to perform asbestos and lead consulting services from initial surveys through management planning, project designs, and abatement actions. In addition, OHC routinely provides asbestos training to client staff.



Kim Rivera, PE of Jones Edmunds will serve as the Task Manager for asbestos related services with assistance from OHC leads James Rizk and Michael Lawn.

Environmental Audits and Assessments

Jones Edmunds has completed Phase I, II, and III Environmental Site Assessments (ESAs) for many municipal clients across Florida including Alachua County. We have staff that have been trained in the ASTM standard method for conducting ESAs. We have performed ESAs on sites that range from individual housing units for the Alachua County Housing Authority to large 100+ acre tracts for Alachua County Forever (ACF).

We anticipate that the major need for this service will come from ACF purchases of large undeveloped sites for conservation. It is imperative that these sites are assessed for contamination or other potential liabilities that the County may inherit if the properties are purchased. We are confident we can provide the County with your ESA needs and present the environmental contamination and liability to better help you assess whether the property should be purchased. In addition, we can assist the County with this decision by providing remediation cost estimates.

DATA ASSESSMENT, MODELING & REPORTING

Assessing Environmental Impacts from New Pollution Sources

New pollution sources may manifest in a short time frame or may develop over a longer period – such as with the transition of land cover. The Jones Edmunds team has a wealth of technical knowledge and experience developed throughout Florida combined with local knowledge of the unique Alachua County landscape.

The interaction between surface and subsurface waters in Alachua County and North Central Florida is critical to understanding water supplies and water quality. We have performed targeted assessments for specific sites – such as for the Paynes Prairie total maximum daily load (TMDL) and we have also taken a broader landscape approach – such as in Sarasota County. We have also combined water quality modeling and statistical modeling of field sampling data to perform a weight of evidence analysis – such as in the Dune Lakes of South Walton County.

Hydrogeological Modeling and Potentiometric Mapping

The Jones Edmunds Team has a long history of working with groundwater modeling projects. Our experience spans the entire scope of groundwater modeling projects, from initial conceptualization to detailed parameterization and

TAB. 3 – CONSULTANT’S QUALIFICATIONS AND STAFF

calibration. Our hydrogeologists have planned and executed field tests to determine aquifer properties and improve modeling certainty.

We have extensive experience with hydrogeological investigations ranging from environmental site assessments, soil and groundwater contamination projects, and soil and groundwater remediation projects. We have over twenty-five years’ experience with potentiometric mapping related to numerous landfill compliance monitoring projects which have required quarterly or semiannual potentiometric surface mapping – some projects with multiple zones mapped – and periodic summary technical reports that evaluate groundwater flow direction, groundwater flow velocity, and monitoring network adequacy.

Contamination Assessment and Modeling

As communities grow larger and put more strain on our natural resources, there is greater potential for conflicts between competing groundwater users. Transport modeling is one tool available to assist in characterizing flow in the groundwater system. The Jones Edmunds Team has used transport modeling in contamination assessment projects, wellhead protection zone delineations, and siting studies for wastewater disposal locations. Jones Edmunds also developed and applied GIS-based surface water quality modeling to assist with pollution assessment and reduction projects.

Our approach to subsurface contamination assessment is to focus on efficient accurate site and contaminant characterization with the goal of developing cost-effective remediation solutions. This process includes:

- Evaluate the site stratigraphy using both traditional (such as hand augers, drilling, direct push methods) and advanced methods (such as ground penetrating radar, electrical resistivity).
- Understand the site hydro-stratigraphy including the thickness, flow rates, and confinement of all aquifers present at the site. This includes conducting aquifer performance testing.
- Characterize the contamination and its flow/migration characteristics in groundwater and soil. This may involve developing fate and transport groundwater flow models.
- Ultimately develop a Remedial Action Plan for approval by Florida Department Environmental Protection (FDEP) and implement a remediation solution that:
 - Will achieve the clean-up goals outlined in the Remedial Action Plan
 - Is cost effective for the County
 - Reduces or does not require continued operational and maintenance costs.

Air Quality Assessment and Industrial Hygiene

Jones Edmunds field staff are certified to perform visible emissions testing and surface emissions monitoring. The Jones Edmunds Team includes Golder Associates, Inc. to assist in addressing air quality and industrial hygiene elements of this contract. The Golder staff have offer outstanding experience and expertise in air quality assessment (indoor and ambient), dispersion modeling, regulatory interpretation, and control technology review. They have directed and performed microbial assessments and abatement, indoor air quality and odor investigations, occupational hygiene risk assessments and audits.

Preparation of Technical Reports

In addition to the technical experts on our team, Jones Edmunds has an in-house technical editing team. Our technical editors help our engineers and scientists effectively translate the fruits of their labor into a format that is readily understood by the target audience – whether that audience is another technical expert or a lay member of the public. Jones Edmunds has a strong history of working collaboratively with our peers in other firms, with regulating entities, and with our clients to produce the desired technical documents – such as with the Coastal Dune Lakes or Low Impact Development manual.

DESIGN & RESTORATION

Restoration and Stormwater Design Plans

The Jones Edmunds Team has successfully designed and constructed numerous and award-winning stormwater management projects aimed at reducing flooding and minimizing pollutants in stormwater. We take a holistic

TAB. 3 – CONSULTANT’S QUALIFICATIONS AND STAFF

approach to developing projects that have multiple benefits. The stormwater management and restoration projects we have developed for our clients balance the goals of enhancing water quality, restoring natural systems, protecting against flooding, and providing educational opportunities.

A good example of providing our clients with a comprehensive solution is the **Sweetwater Branch/Paynes Prairie Sheetflow Restoration** project we completed for Gainesville Regional Utilities. This project aimed to reduce nitrogen loads from urban stormwater runoff to the Sweetwater Branch as part of the TMDL requirements for Alachua Sink. The project also provided additional benefits to improve the quality of life for residents and visitors by providing a network of walking trails, boardwalks, wildlife habitats, visitor center, viewing towers, and classroom facilities. Jones Edmunds performed tasks that included:

We have developed and applied many technological tools to assist us with water quality analyses and the evaluation of treatment methods. However, better than any tool, by far our biggest asset is our dedicated and knowledgeable staff. We are a tight group of engineers, scientists, and GIS professionals who have worked together for many years on this type of work. We take pride in the work that we do. Although the many tools we developed make us more efficient, it is not just about how quickly we can do the work. Our philosophy is that the time we save allows us to focus more on QA/QC of the work and dedicate ourselves to providing higher quality and added value to the project.

Permitting is critical element of preparing construction ready plans. With our extensive experience with public-sector site civil and infrastructure design, we have a thorough understanding of how a project needs to be designed to be permittable. Jones Edmunds is thoroughly familiar with permitting requirements throughout Florida, including requirements at the federal, state, and local levels. We serve as a strong advocate for our clients regarding permitting and regulatory issues. Jones Edmunds’ approach is based on our sound technical and professional reputation with members of the regulatory community – a reputation that we have developed over the past 44 years. We have well-established relationships with FDEP, County health departments, and all the Florida Water Management Districts, and

we work with them regularly to provide our clients with engineering solutions while ensuring that the project meets local, state, and federal requirements.

We strongly believe that it is beneficial to meet early and often with the regulatory agencies involved on a project. By proactively working with regulatory professionals, we have repeatedly achieved positive results for our clients – results based on sound financial management and environmental integrity. Our intimate knowledge of upcoming and pending regulations and our close working relationships with regulatory agencies will benefit you on any permitting efforts undertaken in terms of obtaining timely review and approval of projects.

Remediation Technology and Implementation

Jones Edmunds has provided contamination assessment, monitoring, and remediation at numerous landfill sites across Florida – tailored to the regulations and specifics of the contamination concerns. We have experience with all phases of the process - from the initial rapid site investigations required immediately after a release, protection of public and environmental health, contamination delineation, and remedial action plan preparation and implementation. Our contamination assessments and remedial actions focus on efficiency and a consideration of implementation costs and the ongoing costs of operation-and-maintenance of the remedial action.



Sweetwater/Paynes Prairie Sheetflow Restoration



TAB. 3 – CONSULTANT’S QUALIFICATIONS AND STAFF

Landfills present a unique contamination environment because the contamination is coming from the waste and traditional remediation methodologies are often not financially viable. At Jones Edmunds, we specialize in the assessment and remediation of landfill contamination issues – we understand the various pathways that contamination can be released from a landfill - and know how to cost-effectively remediate contamination issues at landfills.

Ethylene dibromide (EDB) was detected during routine groundwater sampling at the Alachua County Northwest Landfill. The source of contamination was determined quickly using direct drilling and sampling into the Floridian aquifer and the immediate analysis of soil and groundwater samples with an onsite laboratory. The political nature and potential public health risk dictated that this project be completed proficiently under considerable public scrutiny. After delineating the source, Jones Edmunds developed a remediation plan, located a remedial contractor, and provided oversight during soil remediation. Services administered by Jones Edmunds included soil excavation and off-site disposal; water recovery, storage, and off-site disposal; direct drilling and sample collection; monitoring well installation; on-site sample analysis; and laboratory analysis. The contaminated soil contained solvents, EDB, and 1, 2-dibromo-3-chloropropane. Since this project was completed, groundwater concentrations of EDB have decreased significantly and downgradient groundwater monitoring requirements have been reduced, proving that this project was a success. Jones Edmunds has continued to help the County with the Northwest Landfill issues over the years, including review of off-site data and assistance with connection of City of Alachua water service to residences as needed.



We have addressed groundwater contamination from leachate issues, landfill gas problems, and the complex – and often overlooked or misunderstood - issues of landfill gas/groundwater interactions that can cause groundwater contamination concerns. At some facilities, source removal, landfill mining and reclamation, and remediation efforts have been conducted. At other sites various monitoring – such as natural attenuation monitoring - or institutional, engineering, or risk-assessment controls have been implemented to protect environmental and public health. We have worked with state and local agencies accomplishing this work on behalf of our clients. We successfully closed out some of these contaminated sites by working with FDEP - and over the past several years have closed out several older solid waste facilities long-term-care periods.

Assistance During Construction

Jones Edmunds has a long-standing commitment to the special requirements of construction services and applies a team-orientated philosophy to complete the project with the goals of the County and other project stakeholders in mind. Our construction team has the expertise needed to conduct a highly effective program of resident observation, construction administration, and project closeout. We focus on efficiency, practicality, schedule and budget management, and claims avoidance. We have the experience that enables us to anticipate potential construction problems, delays, and contractual conflicts, giving us the ability to effectively support the County with funding agreement compliance, permitting, contract administration or any other hurdles that require resolution.



The Jones Edmunds Construction Administration Team understands and will enforce the County’s contract documents including the general conditions, special provisions, and technical specifications. We will work closely with the Contractors and the County to develop comprehensive and accurate schedules. Construction schedules are updated monthly to mitigate slips and plan required coordination activities. Ideas to accelerate the project schedule are reviewed and discussed at construction progress meetings. Any contractor request for increase in contract time will only be allowed once the Contractor has successfully demonstrated the impact of the delay on the critical path and then only with an executed Change Order agreed on by the County, Engineer, and Contractor.

TAB. 3 – CONSULTANT’S QUALIFICATIONS AND STAFF

The Jones Edmunds Construction Discipline has numerous in-place processes to control construction budgets and uses real-time data to monitor what has been installed, placed, or erected. Accurate daily records of the quantity, size, and type of material installed are critical so that the County only pays for what is installed.

Our Construction Team has proven success delivering construction projects regardless of procurement type: design-bid-build, construction management at risk, and design-build. We strive to develop partnerships among the County, Contractor, Engineer, and our Team so that changes in the contract can be identified early and resolved quickly. We use our experience and cost-estimating experts to negotiate reasonable changes in a timely manner. We will work with County staff, administration, and if necessary citizens to clearly communicate changes that are required for the project. Our main goal on construction projects is to be an extension of the County’s staff and to help make difficult situations easier, such as potential claims issues.

Our Construction Team is a leader in implementing innovative methods for monitoring construction progress, such as using drone technology to monitor dredging projects and using CAD and GIS programs in the field for uploading and checking of real-time data. We implement new methodologies when needed to improve the efficiency of our operations along with bettering our ability to help the County achieve its goals on every project on which we have the opportunity to serve you.

Jones Edmunds has developed standard procedures for all phases of a construction services project from very technical aspects – such as those described in the paragraph above – to more commonplace procedures that ensure that all construction documentation is completed, had an accurate QA/QC review performed, and has been distributed to the appropriate contacts. Reviewing and providing accurate timely construction project documentation is the most critical aspect of claims avoidance on construction projects.

PUBLIC OUTREACH & REGULATORY ASSISTANCE

Environmental Regulation and Ordinance Development

Our Team has planning experience with researching, reviewing, and helping to write local land use and development ordinances for local governments. We have completed unified development code reviews and have developed low impact development manuals for several clients such as Sarasota County, the City of Jacksonville, and Alachua County. We assisted Sarasota and St. Johns County in implementing their land development regulations by developing hydrologic and hydraulic models for use in assessing the effects of landscape change and using those models to perform stormwater reviews for proposed developments. For St. Johns, Pinellas, and Sarasota Counties and the City of West Palm Beach we reviewed their stormwater ordinances and provided recommendations for changes to strengthen them.

Land Development Regulations and Special Studies

Our extensive experience developing stormwater master plans and watershed management plans helps us to be effective peer reviewers and to comment on the potential effects of regulations related to water resources. We provide land development reviews with an emphasis on stormwater management for many clients throughout Florida. In some cases, like St. Johns County and Sarasota County, we have helped to improve the efficiency of their land development review process through automation, work flows, submittal standards, and standard operating procedures. For the City of Venice, we are completing environmental reviews of development submittals to determine if the proposed developments are in accordance with the City’s Comprehensive Plan. In addition, for St. Johns County we completed a wetland buffer study that was used to revise the County’s wetland buffer requirements.



TAB. 3 – CONSULTANT’S QUALIFICATIONS AND STAFF

Public Presentations, Public Meetings, and Expert Testimony

Our Project Managers routinely present technical information at public meetings, workshops, and other venues on a wide array of projects. In addition, our desktop publishing expertise is available to support numerous clients in preparing brochures, project fact sheets, and presentations. For example, we recently presented the results of our Dune Lake research to the Walton County Board of County Commissioners and have given several presentations on the City of Gainesville/GRU Paynes Prairie Sheetflow Restoration project. In addition, we have led stakeholder meetings for numerous watershed management plans we have developed for City of Bronson, City of Williston, Marion County, Citrus County, Sarasota County, and numerous other municipalities in cooperation with the SWFWMD.



Our Team has provided expert testimony on several projects for clients such as the City of Gainesville in support of their proposed stormwater utility and development reviews, Pinellas County, Polk County, and the SRWMD. We are confident our Team can support expert testimony that might arise during this contract for your list of scope of services.

Funding Assistance



While not specifically requested in the scope of services, Jones Edmunds provides professional support services to obtain funding from various federal and state agencies as well as through legislative appropriation. We have an established history of developing funding strategies for a broad range of projects and assisting with grant-reporting requirements for many project types.

Our success begins with developing project concepts that are readily supported (i.e., they are cost-effective, often achieve multiple goals, and receive broad stakeholder support) and integrating them into a needed infrastructure project. We also have extensive experience working on grant-funded projects and helping with grant-funding-reporting requirements. Some recent successful grant endeavors we supported GRU and the City of Gainesville with the preparation of grant funding submittals for the Sweetwater Branch Sheetflow project and obtained \$3.4M in state and federal grant funding for the St. Johns County Masters Tract project which is a regional stormwater treatment facility and regional off-site mitigation area for the County.

This work is routine for us. We have several staff trained specifically for this task because we believe it is an important service to provide clients.

TAB. 3 – CONSULTANT’S QUALIFICATIONS AND STAFF

PRIMARY AND ALTERNATE LIAISON

Alan Foley, PE will serve as the primary liaison between Alachua County and the Jones Edmunds team. He will serve as the Contract and Client Services Manager on this contract. Justin Gregory, PE, Assistant Contract Manager, will serve as the alternate and will act in the temporary absence of our primary liaison. Justin has previously worked with Alachua County EPD on developing case studies to support the County’s new Water Quality Code and is currently working on assisting the EPD with adding a LID inspection tracking component within Cityworks.

SUBCONTRACTORS

Jones Edmunds is teaming with the following firms to complement our capabilities.



Founded in 1983, **OHC Environmental Engineering (OHC)** is a leading, multidisciplinary corporation, licensed in Asbestos, Architectural, and Engineering, with offices throughout Florida. **OHC will be providing asbestos-related services on this contract.** They provide comprehensive

environmental consulting services serving various local governments throughout the United States. This experience allows OHC to have a unique understanding of the needs and requirements of local governments. OHC has performed thousands of assessment and remediation projects, allowing them to obtain extensive practical field expertise with asbestos, lead, mold, and hazardous materials. OHC conducts extensive research on Lead and household allergens (mold) under our contract with Housing and Urban Development (HUD), and Office of Healthy Homes and Lead Hazard Control. Their extensive experience with asbestos and lead inspections/risk assessments, IAQ assessments and remediation, radon measurement and mitigation environmental compliance, site assessments, UST/AST compliance, hazardous waste management, hazardous waste remediation and project management has uniquely positioned for this Contract.



Deren Land Surveying, LLC is a surveying and mapping firm providing consulting services to the public and private sectors. They offer boundary survey, topographic survey, elevation certificates/LOMA, subdivision platting, construction stake-out, right-of-way surveys,

ALTA/ACSM surveys and sectional surveys, and **will provide surveying services on this Contract. Deren Land Surveying is an Alachua County Small Business Enterprise.** The mission of Deren Land Surveying is to provide the highest standard of excellence to our clients. Serving clients throughout Central Florida, their expertise spans all types of projects, ranging from large woodland boundaries to residential, commercial and municipal properties.



GSE Engineering & Consulting, Inc. (GSE) was incorporated and established in 2007, and their mission is to provide professional, competent, timely engineering consulting services to meet the needs and exceed expectations of clients and other stakeholders. **GSE will be providing geotechnical and structural engineering services on this Contract and they are also an Alachua County Small Business Enterprise.** They perform site geotechnical

evaluations and borings in the areas for the proposed infrastructure and provides recommendations for structural foundation design. Their experience includes geotechnical evaluations for reinforced concrete structures, pre-stressed concrete structures, and steel-framed structures. Expertise includes determining cost-effective foundation designs, determining sinkhole activity, and performing slope-stability calculations in support of large-scale structures.



Environmental Conservation Laboratories, Inc. (ENCO) is a network of environmental laboratories that has been providing analytical testing services since 1988. Working independently, or in tandem with engineering firms and municipalities, they have been involved in all stages of short-and long-term environmental site assessments, remedial investigations, and monitoring programs. **ENCO Labs has provided analytical laboratory support to Alachua County landfills via Jones Edmund for several years. They will provide laboratory and analytic services also on this Contract.** They provide pre-cleaned, certified sampling containers, their laboratories’ state-of-the-art instrumentation, their Quality programs, their highly trained, educated, experienced chemists and Project Managers to provide Alachua County with the best service, integrity, and quality possible.

ENCO operates three full service environmental laboratories. They routinely perform analyses in support of contamination assessments, landfill monitoring programs, NPDES permitting, underground storage tank investigations, remedial activities, waste profiling and environmental property audits. They are proficient in the

TAB. 3 – CONSULTANT’S QUALIFICATIONS AND STAFF

ENCO operates three full service environmental laboratories. They routinely perform analyses in support of contamination assessments, landfill monitoring programs, NPDES permitting, underground storage tank investigations, remedial activities, waste profiling and environmental property audits. They are proficient in the analysis of samples of varying matrices including groundwater, drinking water, wastewater, surface water, sludge, soil, air, and hazardous and non-hazardous waste. All three ENCO facilities have Florida Department of Environmental Protection (FDEP) approved Comprehensive Quality Assurance plans. They are certified by the National Environmental Laboratory Accreditation Conference (NELAC) through the State of Florida accrediting authority. All analyses are performed using approved techniques from EPA 600, SW 846, ASTM and APHA method manuals.



GOLDER

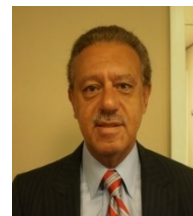
Founded over a half century ago in 1960, **Golder Associates, Inc.** was created to provide consulting, design, and construction services in the specialized area of earth and environment differentiated through technical excellence, innovative solutions and award-winning client service. With

over 6,500 highly skilled engineers and scientists operating in more than 165 offices worldwide, Golder has the resources to assemble exceptional teams of engineers, environmental specialists and scientists to address your project challenges. **They will provide air quality sampling services on this Contract.**

Sub consultant resumes are provided on the following pages.

JAMES F. RIZK, MS, CIH, LAC

jrzk@ohcnet.com
813-626-8156



EDUCATION

M.S., Industrial Hygiene, Central
Missouri State University

B.S., Biology/Chemistry, Kansas
University

LICENSES

- Certified Industrial Hygienist #3956
- Florida Licensed Asbestos Consultant IA0000022
- EPA Lead-Based Paint Inspector/Risk Assessor FL-R-5741-3
- Florida Licensed Mold Assessor
- Radon

HONORS & AWARDS

Commander Award for Civilian
Service- Department of the Army

AIHA Past-President
Acknowledgement Award- FI AIHA

Current Position- President

Length of Time with Company: 35 years

Current Workload: 75% **Availability:** 15%

Knowledge of Local Government: Mr. Rizk has been serving similar contracts for local governments for the past 30 years, some of the contracts he served on include; Hillsborough County, Pinellas County, City of Lakeland, City of Tampa, City of Clearwater, as well as; Polk, Manatee, Sarasota Counties School Boards. Mr. James Rizk is the founder and President of OHC Environmental Engineering, Inc. Mr. Rizk has 39 years of experience in the field of environmental consulting. His overall expertise encompasses Asbestos Consulting Services, Indoor Air quality (IAQ), Lead paint assessment, and general Industrial Hygiene Consulting, Radon measurement. He provides unparalleled contract management through his extensive background in management of large projects, indoor air quality investigations and resolutions, asbestos and lead survey inspections, air monitoring, and OSHA compliance. Mr. Rizk is considered an expert in his field and has acted in the capacity of expert witness on several litigations cases representing our clients. He is a pioneer in the field of Industrial Hygiene and Indoor Air Quality and has given numerous lectures on these topics. As the contract manager for many of OHC's clients, he has maintained relationships by frequent communication and an understanding of the client's needs and expectations. Due to his close relationship with our clients, OHC has been able to maintain numerous client contracts for over fifteen years. He has also acted as an expert witness on numerous occasions representing clients on indoor air quality, asbestos and industrial hygiene related liabilities. Mr. Rizk is also an Asbestos and Lead accredited instructors and provides training for asbestos, lead and mold training.

Instructor: AHERA accredited Asbestos Inspector/Management Planner instructor; AHERA accredited Asbestos Contractor/Supervisor instructor; EPA accredited Lead Based Paint instructor; Florida accredited Mold Risk Assessor Instructor; Florida accredited Mold Remediation instructor

Environmental Consulting Services, City of Lakeland, Lakeland, Florida - For the past 26 years, Mr. Rizk has been the Program Director for the City of Lakeland providing a variety of environmental, industrial hygiene, emergency response, and training services. Mr. Rizk managed an emergency response to disturbances of asbestos containing materials. He was responsible for the investigation and remediation of several very sensitive IAQ projects including dust mite identification at the E&W Building and Stachybotrys sp. remediation at City Hall. He was the Project Manager for the asbestos and lead inspection, specification design, and abatement oversight of Unit 3 at the McIntosh Generating Station, which required asbestos and lead abatement of the entire boiler. Additionally, he designed hundreds of asbestos and lead abatement specifications including some very large abatement projects of asbestos and lead from entire boilers.

Environmental Consulting Services, Sarasota County School Board- Mr. Rizk has been the project manager for this term contract for the past 29 years responding to the school as needed to perform Asbestos, Lead paint, indoor air quality, emergency response for spills and general industrial hygiene consulting services.



MICHAEL LAWN, RA, FLAC

mlawn@ohcnet.com

813-626-8156

Project Designer**EDUCATION:**Rensselaer Polytechnic
Institute, Troy, NYMaster of Architecture
Bachelor of Architecture**CERTIFICATIONS:**Florida, New York & New
Jersey Registered
ArchitectFlorida Licensed Asbestos
Consultant

EPA Lead Risk Assessor

Dept. of Defense – Certified
Fallout Shelter Analyst

Mr. Michael Lawn is an Architect and Developer capable of performing comprehensive architectural, environmental and real estate development services. For the past 44 years he participated in the design, production and construction management of most types of projects from private residences to large scale master plans. His experience includes client contact and negotiations, programming, master planning, schematic studies and design, preliminary sketches, interior layouts, design presentations, supervision and preparation of contract documents, field supervision, construction contract negotiations, mediation and arbitration, environmental audits, lease negotiations, preparation of real estate pro-formas, property management, cooperative and condominium offering plans, real estate syndication, partnership organization and management. Mr. Lawn has been involved in the development of Operation & Maintenance (O&M) plans and specification design for thousands of Asbestos projects during his career. He is also an AHERA accredited Asbestos instructor.

Tampa International Airport- Reclaim Long Term Parking Garage Level 1 & 2

Mr. Lawn is the designer of record for the project responsible for the design of all the abatement specifications and contract documents and developments of all the required CAD drawings associated with the abatement activities. Mr. Lawn was responsible for coordination with the client to establish timelines and budget for abatement and all the logistics for scheduling, phasing, staging area and utilities required for the job.

Environmental Consulting Services, City of Lakeland, Lakeland, Florida

Mr. Lawn prepared a Master specification to address all the Asbestos abatement of small projects, he then prepared work orders to augment the master specs for each project. He also developed O&M plans for all the buildings that contain Asbestos and prepared specific abatement plans for major project.

Greater Orlando Aviation Authority (GOAA), Orlando, Florida

Mr. Lawn developed all the required abatement specification within 48 hours in response to emergency renovation activities to maintain the construction project on schedule. Mr. Lawn has also prepared several other specifications and abatement plans under this contract.

Instructor

AHERA Accredited Asbestos Inspector/Management Planner Instructor

AHERA Accredited Project Designer Instructor

AHERA Accredited Contractor/Supervisor Instructor



David Deren
4605 NW 6th Street / Suite H
Gainesville, Florida 32609
Work: (352)331-0010

Florida Licensed Surveyor & Mapper (PSM 6946)

Work History:

DEREN LAND SURVEYING, LLC

Professional Surveyor & Mapper / President
Gainesville, FL United States

Manage company, employees and their duties. Network and build relationships to produce work and be involved with the Local and State Communities.

President/Owner of Deren Land Surveying & Mapping, Inc. (LB 7996), State of Florida. Approximately 16 years of experience in Land Surveying. Extensive experience in all aspects of office and field land surveying services including sectional, retracement, boundary, topographical, wetlands, construction stakeout, ALTA, right -of-way, preparation of legal descriptions. Proficient in Auto Cad Surveying Software. Responsible for all field operations and procedures for survey crews. Communications and coordination with clients for job estimations and job completions. Work with Topcon, Sokkia, Trimble and Leica products/instruments with TDS data collection.

Geoline Surveying, Inc. (03/01/2008 – 12/20/2010)

Project Manager

Directly involved with clients to obtain information and deadlines for projects and properly delegate work to field crews for completion.

Oversee field crews' progress on specific jobs and manage them for quality and time as well as organize travel plans for out of town jobs.

Review completed field work for completeness and review Survey Map prior to PSM sign and seal.

Geoline Surveying, Inc. (01/01/2003 – 03/01/2008)

Field Crew Supervisor

Obtain and review the requirements for field operations of each job delegated to me for field work and data collection.

Manage field procedures and proper use of time of field crew under my supervision to produce needed information on the job to be used to complete the requirements as per each job request.

GCY, Inc. (06/01/1997 - 8-1-1999)

Rod man, Instrument man

Train in the profession of Land Surveying as a Rod man, being directed in the specifics of surveying and proper techniques of data collection in the field for specific jobs.

Learn the use of specific styles of instruments of data collection with Total Stations and GPS.

EDUCATIONS:

South Fork High School Stuart, Florida 1996-1999

Santa Fe Community College 2000-2002

AA Degree – General Education – May 2002

University of Florida – Combined Geography/Geology 2011-2012

Bachelor degree in Geosciences – August 2012

Kris Ann Gath
4605 N.W. 6th Street Suite H
Gainesville, Florida 32609
Work: (352)336-3363

Florida Licensed Surveyor & Mapper (PSM 5339)

Work History:

DEREN LAND SURVEYING, LLC (August 1, 2013 – Present)

Professional Surveyor & Mapper / Project Manager
Gainesville, FL United States

Project Management including managing, scheduling and directing and developing, evaluating and mentoring survey staff. Generally plan, coordinate, implement and finalize projects according to the specifications and deadlines, all while keeping the project within budget. Coordinate with crews and technicians for project responsibilities.

Define the project's objectives, create schedules and oversee quality control throughout the entire project. Attain resources; manage the team and third-party contractors and/or consultants. Identify, assess and minimize project risks until successful project completion. Coordinate with crews and technicians

Kris Ann Gath Land Surveying & Mapping, Inc. (08/01/1994 – July 31, 2013)

Professional Surveyor & Mapper/President
Gainesville, Florida United States
Owner/Operator

Florida Licensed Professional Surveyor & Mapper (PSM 5339).

President/Owner of Kris Ann Gath Land Surveying & Mapping, Inc. (LB 6578), State of Florida. Approximately 20 years' experience in Land Surveying, with 17 years as a Licensed Professional Land Surveyor. Extensive experience in all aspects of office and field land surveying services including sectional, boundary, topographical, wetlands, construction stakeout, ALTA, right-of-way, preparation of legal descriptions, platting of subdivisions, expert witness for boundary disputes. Proficient in C & G Land Surveying Software. Responsible for all field operations and procedures for survey crews. Communications and coordination with multiple clients for job estimations and job completions. Work with Topcon products/instruments and TDS data collection.

A.D.S & E., INC. (04/21/1994-08/01/1994) – CaiCE Project Manager

Jacksonville, Florida United States

Supervisor: Cynthia Silvestre – N/A: Contact: No longer open for business

Duties: Responsible for overseeing survey crews in day to day operations. Primary emphasis on Florida Department of Transportation projects, but not limited to. Reduce, interpret and verify field measurements. Draft various types of surveys using CAD programs.

Florida Department of Transportation (05/14/1991 – 04/21/1994)

Assistant Professional Land Surveyor

Duties: Worked directly with Licensed Professional Land Surveyor. Reduced, interpreted and verified field measurements for various types of surveys performed by FDOT. Responsible for alignment configuration and CAD drafting. Worked directly with multiple survey crews in day to day operations.

Florida Department of Transportation (12/01/1989 – 05/14/1991)

Engineering Technician IV/Surveyor-in Training

Duties: Member of field crew in responsible charge to gain experience for Land Surveying licensure. Performed various types of Surveying services for FDOT, including, boundary, topographic, right-of-way, control and design, data collection.

Daryl I. Thie Land Surveying, Inc., (03/01/1989 – 03/01/1992) –Field Crew Supervisor/ Party Chief

Newberry, Florida United States

Duties: Responsible for day to day operations of survey field crew. Reduce, interpret and verify field measurements. Manual drafting, checking computations, legal descriptions, verifying/checking plat requirements. Proficient in use of Total Station.

Delta Corporation (08/01/1988 – 03/01/1989) – Field Crew Supervisor/Party Chief

Gainesville, Florida United States

Duties: Responsible for day to day operations of survey field crew. Performed boundary, topographic, and construction layout surveys. Responsible for interpreting and verifying filed measurements from various surveys performed. Manual drafting of various surveys performed.

EDUCATIONS:

John Carroll High School Fort Pierce, Florida 1973-1977

Indian River Community College 1977-1979

AA Degree – General Education – May 1979

University of Florida – College of Engineering 1984-1990

Bachelor of Science in Surveying and Mapping – August 1990



REGISTRATIONS

Professional Engineer
Florida – 40146
Georgia - 18522

EDUCATION

University of Missouri – Rolla
Bachelor of Science Degree
Civil Engineering - 1983

EXPERIENCE

32 years

PROFESSIONAL ASSOCIATIONS

American Society of
Civil Engineers

INTRODUCTION

Mr. Hill is a registered Professional Engineer in the State of Florida with 30+ years experience in Geotechnical Engineering, with over 25 years experience in the North Florida area. Mr. Hill is involved in project management and technical design and analyses for a wide variety of geotechnical studies for both public and private clients throughout north and central Florida, including the Florida Department of Transportation, the University of Florida, Alachua County, and the City of Gainesville. He has over 30 years experience involving planning, management, and performance of geotechnical projects, analyzing and evaluating data and providing recommendations for over 7,000 geotechnical design projects. This experience has included geotechnical engineering evaluations of structures ranging from light, single-story residences to multi-story, mid-rise residential and institutional developments. This experience includes structures, parking lots, roadways, storm water management facilities, borrow material evaluations and forensic evaluations of damaged structures and sinkholes. Mr. Hill has managed over a thousand sinkhole evaluations, ranging from site prescreening to forensic evaluations and repairs of ground collapses.

GEOTECHNICAL EXPERIENCE

Dixie Middle/High School, Cross City, Florida – Mr. Hill supervised the geotechnical evaluation for a new middle/high school. The geotechnical exploration found very loose soil conditions and highly karstic geology, indicating a high risk for sinkhole development. Stone column improvement was recommended to improve the subsurface conditions and reduce the potential for sinkhole development.

Meadowbrook Elementary School, Gainesville, Florida – Mr. Hill supervised the geotechnical exploration for a new middle school. The site contained expansive soils that required remediation to reduce the risk for differential foundation movement.

Shands Medical Warehouse, Gainesville, Florida - Mr. Hill managed the geotechnical evaluation for the medical warehouse building, and provided geotechnical inspections of foundation subgrade during construction.

The Standard, Gainesville, Florida – Mr. Hill performed the geotechnical evaluation of the ten story, concrete frame residential structure and parking garage. The foundation recommendations were high capacity augured cast-in-place (ACIP) concrete piles. Pile load testing confirmed the ACIP pile design, and the instrumentation of the test piles confirmed the pile length could be reduced while achieving the required capacity, reducing project costs.

PROFESSIONAL PROFILE

David M. Camacho

TITLE: Project Manager

ACADEMIC ACCOMPLISHMENTS:

University of Central Florida
B.S. Micro and Molecular Biology

MAJOR AREA OF EXPERTISE:

Chemistry
Project Management

SUMMARY OF EXPERIENCE:

Mr. Camacho specializes in project management with over ten years in this position, and over twelve years in the industry. He has experience in semi-volatile extraction, as well as some wet chemistry experience. He is proficient in data review and knowledgeable of lab analysis requirements and extraction procedures, as well as government and municipality regulations.

PROFESSIONAL EXPERIENCE:

2006 to Present

Environmental Conservation Laboratories, Inc.

Position: Administrative/Project Manager

Responsibilities:

Mr. Camacho acts as a client contact, managing projects as they are moved through the lab. He performs secondary review of data and final approval of reports. Mr. Camacho is also pivotal in improving client relations, with an emphasis on customer service.

2005

Environmental Conservation Laboratories, Inc.

Position: Extractions Technician

Responsibilities:

Mr. Camacho performed water and soil extraction methods for multiple analyses including: total halides, semi-volatiles, PCBs, pesticides, and herbicides. He also performed the wet chemistry analysis of MBAS.

PROFESSIONAL PROFILE

Matthew J. Foti, Ph.D.

TITLE: Operations Director

MAJOR AREAS OF EXPERTISE:

ACADEMIC ACCOMPLISHMENTS:

Organic Chemistry

University of South Florida Ph.D. Organic Chemistry

University of Central Florida B.S. Chemistry

SUMMARY OF EXPERIENCE:

Dr. Foti's doctorate was obtained in Organic Chemistry from the University of South Florida in 1998. While obtaining his doctorate he spent four years conducting research in the area of analytical biochemistry at the Walt Disney Memorial Cancer Institute. He published multiple papers in various scientific journals dealing with a rational drug design methodology to combat cancer related illness. During this period Dr. Foti mastered many analytical techniques including but not limited to Nuclear Magnetic Resonance, HPLC, and Mass Spectrometry.

After obtaining his doctorate Dr. Foti ventured into the environmental field in 1999 accepting a position with ENCO Labs as Technical Manager for the Orlando facility. During his tenure at Technical Manager Dr. Foti rapidly gained experience in environmental chemistry and methodologies associated with testing. His in depth knowledge of organic chemistry and analytical techniques has provided significant contributions to multiple site assessments.

In 2002 Dr. Foti accepted the position of Laboratory Manager for the Orlando Facility of ENCO Labs. After 7 years of managing the Orlando facility Dr. Foti moved into the Operations Director position in 2009. In addition to ensuring ENCO Labs meets the analytical needs of its clients, Dr. Foti continues to support the technical needs of many clients who have trusted his in depth knowledge of chemistry.

PROFESSIONAL EXPERIENCE:

Environmental Conservation Laboratories, Inc.

2009 to Present

Operations Director

Position and Responsibilities:

Management of all operational aspects of the environmental division of ENCO Labs. Responsibilities include but are not limited to production, staffing, technical support, and ensuring that all requirements of Environmental Conservation Laboratories, Inc.'s quality assurance program are met for all 3 ENCO facilities.

Position: Responsibilities:

Environmental Conservation Laboratories, Inc. Laboratory
Manager-Orlando Facility

Management of the Orlando facility staff on a daily basis, including oversight of all laboratory operations. Dr. Foti's responsibilities include but are not limited to all aspects of production, staffing, technical support, and ensuring that all requirements of Environmental Conservation Laboratories, Inc.'s quality assurance program are met.

Philip D. Cobb, PhD., PE

Senior Engineer

Education

Ph.D., Chemical Engineering,
University of Florida, 2006

B.S., Chemical Engineering,
Florida Institute of Technology,
2001

Specialization

Minor Source Air Permitting

PSD Air Permitting

Greenhouse Gas Monitoring
Plans

Greenhouse Gas Emissions
Analysis

Toxic Release Inventory
Reporting

Emission Modeling

Professional Registrations

Professional Engineer, State of
Florida No. 72386

PROFESSIONAL SUMMARY

Dr. Cobb joined Golder in 2006 as an Air Engineer. He provides air consulting services to a broad range of clients, including industrial and service providers. His main practice area includes minor and major source air permitting, reporting and compliance. Permitting experience includes minor source and Prevention of Significant Deterioration (PSD) air quality permitting. Reporting experience includes state and federal reporting (annual emissions, greenhouse gas emissions, toxic release inventory reporting, and hazardous air pollutant [HAP] reporting).

RELEVANT EXPERIENCE

- Prepared minor source air operating permit renewal application for a concrete production and casting source.
- Completed Title V air permit compliance audits at multiple Title V facilities including: Sugar mills, phosphate fertilizer plants, waste-to-energy facility, and a contact lens production facility.
- Prepared compliance strategies for multiple MACT rules including:
 - Phosphoric Acid MACT (40 CFR 63 Subpart AA)
 - Phosphate Fertilizer MACT (40 CFR 63 Subpart BB)
 - Pulp and Paper MACTs (40 CFR 63 Subpart S & MM)
 - RICE MACT (40 CFR 63 Subpart ZZZZ)
 - Boiler MACT (40 CFR 63 Subpart DDDDD)
- Prepared FDEP air construction permit applications for PSD permit for a pulp and paper mill for improvements to the recovery boiler and evaporator system in order to improve emissions and make the facility more energy independent.
- Prepared multiple FDEP air construction permit applications for phosphate fertilizer plants to improve processes, increase production, and replace essential equipment to avoid PSD permitting.
- Prepared multiple greenhouse gas monitoring plans that contained applicability analyses for the new federal greenhouse gas reporting rule, and the monitoring, recordkeeping, and reporting requirements therein.
- Prepared greenhouse gas emissions impact analyses of the biosolids management options for multiple municipal wastewater treatment facilities.
- Performed air dispersion modeling analyses to determine the odor impacts of volatile organic compounds (VOCs) and hazardous air pollutants (HAPs) in the surrounding residential areas. Also assisted in the development of emission inventories for toxic air pollutants for several industries for the use in air quality impact modeling.
- Collected plant information from five multiple phosphate fertilizer facilities for Toxic Release Inventories (TRI) submission to the U.S. Environmental Protection Agency (EPA), as well as the Florida Department of Environmental Protection (FDEP). Prepared final reports detailing the amount of emissions of pollutants from each facility, and comparing emission levels to previous years, as well as to emission levels reported by competing facilities.

Andreas Wagner, M.Eng., CIH, ROH

Industrial Hygiene Practice Leader / Principal

Education

M.Eng., Industrial Hygiene,
University of Toronto, Canada,
1993

B.Sc. (Honors), Chemistry and
Biochemistry, University of
Toronto, 1989

Specialization

Industrial hygiene

Indoor air quality

Occupational hygiene
compliance/management

Hazardous materials control
and abatement

Microbial assessments and
remediation

Legionella and infection control
risk assessments

Vapor intrusion studies

Expert testimony

Professional Registrations

Florida Licensed Mold
Assessor – FDBPR, 2011

Registered Occupational
Hygienist (ROH) – CBROH,
2000

Certified Industrial Hygienist
(CIH) – ABIH, 1996

USEPA Certified AHERA
Asbestos Building Inspector,
Asbestos Management
Planner, Asbestos Project
Designer

PROFESSIONAL SUMMARY

Mr. Wagner is a Principal and Practice Leader for Industrial Hygiene services for Golder Associates. Mr. Wagner is responsible for the oversight of occupational health, safety and industrial hygiene services and the support of existing Golder Associates resources in these and related fields across the US, in North America, and Globally. He has over 28 years of consulting experience that includes expert witness testimony, hazardous materials control and abatement, microbial assessments and remediation, Legionella and infection control risk assessments, indoor air quality and odor evaluations, vapor intrusion studies, occupational hygiene compliance/management risk assessments and audits, and training.

RELEVANT EXPERIENCE

- Lead Instructor for OHTA Training courses for Golder Associates, one of the first Approved Training Provider for these courses globally. Successfully facilitated and instructed numerous OHTA training courses in Australia, USA, Europe, South America, and Trinidad since 2010,
- Completed hundreds of assessments of institutional and commercial facilities and public buildings for asbestos, lead, and microbial contamination and developed associated remediation plans.
- Developed industrial hygiene plans for Industrial Turnaround and Shutdown projects and managed large-scale IH sampling efforts for transportation, mining, oil and gas, and manufacturing clients throughout North America and the Caribbean.
- Conducted assessments and peer reviews of reports detailing asbestos and microbial assessment results and remediation plans on litigation cases in the USA and Canada. Provided expert testimony in court and participated in depositions on these subject matters.
- Completed sophisticated Indoor Environmental Quality (IEQ) evaluation where cancer clusters were suspected, and work refusals occurred due to odor complaints.
- Lead and participated in EHS Compliance and Program Audits, with emphasis on Industrial Hygiene Risk Assessments and Evaluations, for manufacturing sites and mining sites in Canada, USA, Germany and Peru.
- Conducted Vapor Intrusion studies on residential and commercial sites located in Canada, USA, and Mexico, with subsurface petroleum or chlorinated hydrocarbon contamination.
- Completed assessments for surface contamination and IEQ following industrial fires and explosions, including assessing contamination for PCBs, methamphetamines, and smoke-related pollutants.
- Conducted Legionella Risk Assessments in various healthcare facilities and developed Water Management Plans to minimize the risk of Legionella amplification in building water systems.

Salahuddin (Sal) K. Mohammad, PE

Air Quality Senior Consultant

Education

- M.S., Aerospace Engineering, University of Florida, 1991
- B.S., Aeronautical Engineering, Indian Institute of Technology, 1988

Specialization

- Air Quality
- Air Dispersion Modeling
- Air Permitting
- Emissions Inventory (point and mobile sources)
- Control Technology Review
- Noise and Odor Issues

Professional Registrations

- Florida Professional Engineer (PE) No. 77027

Professional Affiliations

- Air and Waste Management Association

Languages

- English
- Bengali
- Hindi

PROFESSIONAL SUMMARY

Mr. Mohammad is a Senior Consultant with more than 20 years of experience involving air quality permitting (major and minor), air emissions inventories (including GHGs and hazardous and toxic air pollutants), air dispersion modelling (including AERMOD & CALPUFF), compliance audits, regulatory interpretation, control technology review, ambient air monitoring, and meteorological data analysis. He has significant experience with power plants, landfills, open pit mines, waste-to-energy plants, and pulp & paper mills. He has worked on air quality projects for various industrial facilities including chemical manufacturing, fertilizer industry, tire shredding, boat manufacturing, telecommunication, aerospace parts, breweries, biomass to ethanol and energy plants, and others. Also worked on regional air quality assessments for a coal mining region in Colombia, prepared complex fugitive dust emissions inventories for more than a dozen large open pit mining projects in Peru, Panama, Colombia, and Fiji, and performed air quality impact analysis for particulate matter and combustion pollutants using state-of-the-art air dispersion models. He has presented papers at the local and national conferences (AWMA, EUEC), and has provided air regulatory training to a variety of clients.

RELEVANT EXPERIENCE

- **Air Quality Assessment in Colombia** – Project director for air quality assessment for TSP and PM₁₀ in a 20km radius area around Boqueron Town in Cesar District, Colombia. Traffic study and silt sampling from paved and unpaved roads. Emissions inventory from traffic on public roads, industrial sources, small towns, and open pit mining activities located in the area. AERMOD air dispersion modeling. Presentation of results to the Ministry of Environment and regional stake holders.
- **Air Quality Assessment Transportation Route in Peru** – Project director for performing air quality assessment for particulate and gaseous pollutants (NO₂, CO, SO₂) from a 130-km long transportation route used by public and mining vehicles in southern Peru. Project analyzed the difference in air quality impacts used by alternative routes.
- **Air Quality Assessment in Albuquerque, NM** – Air quality assessment for gaseous and particulate matter pollution due to vehicles associated with proposed Edith Transfer Station (ETS) and Convenient Center to be located in Bernalillo County, New Mexico.
- **Air Dispersion Modeling for Power Plants** – Used AERMOD and CALPUFF to predict criteria pollutant impacts in support of air permitting projects for power plants in various parts of the US. Also performed AERMOD modeling for power plant projects in Jamaica, Turks and Caicos Islands, and Peru.
- **Air Dispersion Modeling for Industrial Clients in USA** – Performed AERMOD air dispersion modeling for landfills, oil & gas pipelines, waste-to-energy plants, fertilizer plants, chemical plants, and pulp & paper mills.
- **Air Dispersion Modeling for Fugitive Dust** – Estimated fugitive dust emissions and used AERMOD to predict fugitive dust impacts from open pit mines in the US, Peru, Colombia, and Fiji, tailing facilities in New Mexico, and landfills in Colorado.

Gage Miller

Senior Environmental Scientist

Education

B.S. Environmental Science,
Albright College, 1998

A.S. Power Plant Technology,
Williamson Trade School, 1995

Specialization

Air Monitoring

Noise Monitoring and modelling

Meteorological monitoring
station setup and operation

Noise impact analysis

PROFESSIONAL SUMMARY

Mr. Miller joined Golder in 2000 as an environmental specialist. He has air monitoring and meteorological related experience including being task manager of continual operations and maintenance of comprehensive air quality monitoring stations. This entails routine data collection and processing, maintenance checks, instrument calibrations, and quarterly quality assurance and control audits, and monthly and annual report generation. Additional noise related experience in conducting noise modelling, sound level field measurements, assessments, impact analysis, data processing, and report generation. Project and task manager overseeing the installation of meteorological and ambient air monitoring stations in Florida, Arizona, Michigan, Washington, Peru, Bahamas, Panama, Tanzania, Guinea, and the Dominican Republic.

RELEVANT EXPERIENCE

- Project manager responsible for operations, maintenance, calibration and reporting for a fully configured 6 station air quality (SO₂, NO/NO₂, CH₄, Non-CH₄, CO, Hg vapor, PM_{2.5}, PM₁₀, TSP) and dispersion meteorology (horizontal wind speed and direction, vertical wind speed, temperature, relative humidity, precipitation, barometric pressure, and solar radiation) monitoring network. This network supports the development and operation of one of the largest gold mines in the world, was designed and operates following USEPA Provision of Significant Deterioration quality assurance requirements.
- Project manager of long-term project in charge of siting, installing, oversee operations, and auditing Ambient Air Monitoring Networks for three mines on behalf of The Mosaic Company. The first monitoring network consisted of two particulate (PM₁₀) monitoring stations and one meteorological station and began operations in 2004. Currently the three networks consist of 14 continuous particulate samplers and six associated meteorological stations. Hourly data is collected regularly, and quarterly reports are submitted to the county. Additionally, the projects require Ambient Air Quality Monitoring Plans be created and submitted to the county for each mine and be updated annually.
- Project and Task Manager on noise assessments and impact analysis for multiple Florida Power & Light projects. Projects were in support of these facilities Site Certification Application (SCA) in order to be permitted to operate in the state of Florida.
- Supported Jacksonville Electric Authority attaining a local Noise Variances for several construction projects that included horizontal and vertical drilling for water wells and water mains. Responsibilities included noise modelling, impact assessment, noise mitigation strategy, response to noise complaints, noise monitoring, and expert testimony throughout the variance application process.
- Provided environmental noise services and expert testimony for a confidential energy client in support of the permitting of a natural gas well in Pennsylvania.

Start Date: 1992
End Date: Ongoing

Client Contact:
David Wood, PG
Alachua County
352.374.5213
dwood@alachuacounty.us

Services:

- Field Sampling
- Laboratory Analyses
- Compliance Reporting
- Contamination Assessment
- Contaminant Remediation

Landfill Compliance Monitoring
Alachua County

Jones Edmunds has been responsible for compliance monitoring services for the five Alachua County Landfills since 1992, including field sampling, subcontracting laboratory analyses, preparing compliance reports, and reviewing permit issues. We have also been responsible for the environmental monitoring permit requirements of the former Leachate Disposal Facility and the Transfer Station. We provide fully reviewed and finalized electronic data deliverables to Florida Department of Environmental Protection (FDEP) in the ADaPT format.

Jones Edmunds has successfully negotiated with FDEP on numerous occasions for reductions in monitoring requirements at the landfills. One example was a reduction of groundwater requirements at the Southwest Landfill, which saved Alachua County approximately \$25,000 per year in analytical costs and an additional \$18,000 per year in reduction of other permit requirements.

Additional examples of relevant project experience performed for the County is as follows:

- Landfill FDEP Permit Renewals and Modifications
- Southeast Landfill Compliance Monitoring Cessation
- Southwest Landfill Contamination Assessment for Vanadium in Groundwater
- Northwest Landfill Hydrogeological Investigation and EDB Contamination Assessment
- Northwest Landfill Mercury Contamination Assessment
- Northeast Auxiliary Landfill Contamination Assessment and Remedial Action
- Northeast Landfill Remedial Alternatives Feasibility Study
- Southwest Landfill Leachate Disposal Reverse-Osmosis System Support
- Hawthorne Dump Investigation



Start Date: 2003

End Date: 2003

Client Contact:

Brett Goodman, PE
352.393.6704
goodmanbp@gru.com

Services:

- Water Quality Study
- Bathymetric Survey
- TMDL Development
- Water Quality Sampling
- Data Collection
- Peer Review

**Alachua Sink Total Maximum Daily Load Study Phase 1 and 2
Gainesville Regional Utilities**

Gainesville Regional Utilities (GRU) was faced with potentially significant load reductions resulting from a draft total maximum daily load (TMDL) for Total Nitrogen at Alachua Sink that was based on limited water quality data. Jones Edmunds conducted an intensive water quality study of the Alachua Sink to



assist GRU in a collaborative effort with the Florida Department of Environmental Protection (FDEP) to provide additional information that better characterized the range of conditions on the Prairie and was better suited to developing an appropriate TMDL for the Alachua Sink.

The first phase of the project was focused on getting as much water quality and flow data as possible in a 6-month period. The aggressive schedule was dictated by FDEP's and US Environmental Protection Agency's desire to develop and adopt a TMDL for Alachua Sink by September 2003. In addition, Jones Edmunds performed a bathymetric survey of the Sink to support FDEP's development of a BATHTUB model. During the effort, we monitored 12 sample sites over six events. The monitoring was coordinated with Park Service Staff and the Alachua County Department of Environmental Protection. When Jones Edmunds submitted the information to FDEP, FDEP revised the TMDL for Alachua Sink, which resulted in substantial increases in allowable Nitrogen loading. The study provided critical information on the different sources of Nitrogen to Alachua Sink.

The second phase of the project included additional water quality sampling, flow data collection, and a peer review of the modeling conducted by FDEP for developing the TMDL. Jones Edmunds conducted the field efforts and coordinated the modeling review. The results of the second phase were used by GRU to comment to FDEP on the second proposed TMDL for Alachua Sink.

By being able to mobilize with local staff, Jones Edmunds was able to capture critical water quality and flow data after storm events including the transition of Paynes Prairie from a dry to wet hydroperiod. The effort was key for GRU and FDEP in developing and accepting a TMDL for Alachua Sink

Start Date: 2016

End Date: 2017

Client Contact:

Bruce Bullert, PE, Engineering
Services Manager
941.764.4509
bruce.bullert@charlottecountyfl.gov

Services:

- Wastewater Utility Systems Planning
- Preparation of Project Specific Facilities Plans
- Evaluation of Facilities
- Hydraulic Modeling
- Septic-to-Sewer Conversion
- Assistance with Grants and Funding
- Public Involvement

**Sewer Master Plan
Charlotte County**

A regional effort is underway to improve and protect the water quality in Charlotte Harbor and restore the natural resources, ecosystems, fisheries, marine and wildlife habitats, beaches, and coastal wetlands of the Gulf Coast ecosystem by reducing land-based non-point-source pollution. As a part of this effort, the Charlotte County BOCC developed the Blue Water Strategy, which aims to enhance community life by ensuring and sustaining the quality of natural water resources to protect and provide a safe water supply, a recreational haven, and an environmental resource. The Blue Water Strategy is comprised of four key components: wastewater, reuse, stormwater, and drinking water.

In response to the BOCC's Blue Water Strategy and in accordance with the BOCC's objectives, the Charlotte County Utilities Department selected Jones Edmunds to prepare individual sewer master plans (SMP)

for the County's individual sewer service areas (Mid County, West County, and South County) and to combine them into the County-wide Charlotte County Sewer Master Plan (CCSMP).

Jones Edmunds' work for this project included developing and preparing with public input an affordable, reliable, and efficient collection and treatment system plan to address the needs of existing customers while providing for the replacement of septic systems with central sewer for the appropriate areas in the County. The plan included identifying wastewater major transmission and treatment facilities improvements and/or expansions that required reliable sewer service for full system build-out, while developing a flexible plan that could be phased over time (2020, 2030, 2040, 2050, build-out) to allow the County to address variable population growth and evaluate available revenues and funding sources that become available.

As part of this work, we developed a Geographic Information System (GIS) based model that incorporates current residential units, existing sewers, existing septic tanks, growth and population projections, soil types, depth to surficial groundwater, estimated nutrient loads from existing septic tanks, and a capital and O&M cost estimating tool for sewer technologies including – vacuum sewer, septic tank effluent pumping, low-pressure sewer (grinder pumps), and gravity sewer. The GIS-based model uses both environmental and cost data to prioritize the areas to sewer for the three County sewer service areas.

The final work product included a 5-Year, 10-Year, and 20-Year Priority Plan for Septic to Sewer Conversions, recommended wastewater transmission and water reclamation facility improvements or expansions, capital improvement plan for the recommended sewer and wastewater infrastructure program, and a Funding Model that allowed evaluation of revenue sufficiency, appropriate debt coverage, funding sources, and homeowner assessments. Charlotte County will be able to reassess the septic-to-sewer prioritization plan routinely (every 5 years) to evaluate the next phases and confirm needs for next phases of central sewer expansions.

BLUE WATER STRATEGY

The goal of the project is to collaboratively develop and prepare a 20-year implementation plan to create an affordable, reliable, and efficient wastewater collection and treatment system for a sustainable environment.



Start Date: 2017

End Date: 2018

Client Contact:

Melinda Gates
Environmental Specialist
Walton County
850.892.8108
GatMelinda@co.walton.fl.us

Services:

- Water Quality Data Analysis
- Field Sampling – Flora and Fauna
- Geospatial Analysis
- Data Mining
- Empirical Analysis

**Coastal Dune Lake Study
Walton County**

The Coastal Dune Lakes (CDLs) in south Walton County are unique and treasured natural systems. The County sought to minimize the potential for adverse impacts to the CDLs. The team of Jones Edmunds, Janicki Environmental, Inc., and Frydenborg Ecologic, LLC, studied the potential anthropogenic impacts on the CDL ecosystems.

The first objective of this study was to evaluate the current conditions in the CDLs and relate them to the watershed characteristics that affect pollutant loading. Understanding the relationship between changes in the watershed and nutrient loading and water quality responses in the CDLs will inform resource management decisions.

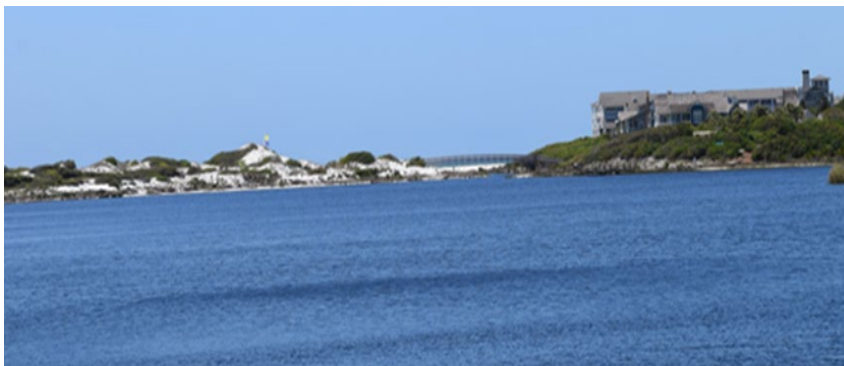
The second objective of this study was to provide a technically defensible framework for assessing changes in the CDLs as they relate to changes in their watersheds and recommendations that are feasible, achievable, and measurable.

Our team applied a weight-of-evidence approach that included the following components:

- Data Analysis – reviewing and analyzing existing water quality data for the lakes.
- Additional Data Collection – performing vegetation assessments and sampling using standard methods across all the lakes.
- Watershed Pollutant Loading Model – applying a geographic information systems (GIS)-based model to generate estimates of pollutant loading to the lakes.
- Empirical Analysis – analyzing relationships between the sampling and modeling datasets to develop management recommendations.

The results of our analyses enabled us to relate watershed conditions to lake conditions (Objective 1). We used those relationships to develop suggested water quality and nutrient loading targets along with a methodology for assessing lake conditions relative to those targets (Objective 2). Our suggested assessment methodology allows for natural variations in lake water quality.

Collectively, our analyses show that the health of the vegetative communities around a lakes correlated with the long-term water quality. Lakes with a greater percentage of naturally vegetated shoreline buffer have better water quality. Minimizing disturbance of natural vegetation communities within about 60 feet of the water line – and restoration of disturbed communities – will preserve the quality of the CDLs.



Start Date: 2008

End Date: 2014

Client Contact:

Brett Goodman, PE
352.393.6704
goodmanbp@gru.com

Services:

- Stormwater Management Design and Construction
- Wetland Restoration/Creation
- Sediment Reduction
- Site Assessment
- Public Outreach

Sweetwater/Paynes Prairie Sheetflow Restoration
Gainesville Regional Utilities

Paynes Prairie Preserve State Park in Alachua County became Florida's first State Preserve in 1971 and is widely known as a world-class wetland. The Prairie has been designated an Outstanding Florida Water as well as a Florida Natural and Historical Landmark. Stormwater runoff from the City of



Gainesville, Paynes Prairie's closest neighbor, has had a marked effect on the water quality and quantity of the Prairie's wetlands and lakes. In combination with a long history of ranching operations that included the construction of extensive drainage canals, pollution from the Gainesville urban area flowing downhill in Sweetwater Branch onto the Prairie Basin has contributed to the alteration of Paynes Prairie's wetland and aquatic plant communities. Alachua Sink, a natural lake within Paynes Prairie, is considered an impaired water body, and the Florida Department of Environmental Protection (FDEP) has established a regulatory Total Maximum Daily Load (TMDL) that requires nitrogen discharging to this lake to be reduced from all sources. The Sweetwater Branch/Paynes Prairie Sheetflow Restoration Project presents a unique opportunity to rectify these problems while providing additional wildlife habitat, wildlife viewing, and public recreation opportunities.

Two primary goals were addressed by the Sheetflow Restoration Project. Goal Number 1 was to satisfy the nitrogen-load reductions from the Main Street Water Reclamation Facility and urban stormwater to Sweetwater Branch as part of the TMDL requirements for the Alachua Sink. Goal Number 2 was to restore the rehydration mechanisms of Paynes Prairie to their natural condition. These goals are being met by:

- Preventing low-quality water in Sweetwater Branch from flowing directly to Alachua Sink and the Floridan aquifer.
- Restoring the hydroperiod of over 1,300 acres of formerly impacted wetlands through environmental reuse of wastewater effluent and stormwater treatment.
- Achieving regulatory TMDL requirements for the City of Gainesville for nitrogen in a cost-effective way.
- Removing trash and debris from water discharging the Prairie.
- Reducing sediment load from Sweetwater Branch.
- Restoring part of the overall water balance to Paynes Prairie.
- Creating approximately 125 acres of wetland wildlife habitat.
- Providing public access.
- Naturally assimilating nutrients, sediments, and other pollutants to protect Paynes Prairie and the Floridan aquifer.

Start Date: 2013

End Date: 2015

Client Contact:

Wallace Schroeder, PE

321.867.1457

Wallace.r.schroeder@nasa.gov

Services:

- Demolition Design
- Environmental Assessment
- Hazardous Material Investigation
- System Designs
- Preparation of Plans and Specifications

Design Demolition of the Kennedy Space Center Headquarters and Central Instrumentation Facility
NASA

To reduce operation and maintenance costs associated with facilities and equipment, NASA decided to close and demolish the Kennedy Space Center (KSC) Headquarters Building and Central Instrumentation Facility (CIF). Jones Edmunds was contracted to provide engineering services to complete demolition design and construction details for demolishing various facilities and equipment.

Our team provided the environmental assessment and design documents for deconstruction of the KSC Headquarters Building and CIF. Work involved asbestos, heavy metals, and PCB investigation for two facilities with a combined square footage of 610,000 square feet. The deconstruction design services included hazardous material investigation and analysis and preparation of specifications, drawings, and engineer's opinion of probable cost. The systems designed included water, wastewater, stormwater, gas, chilled water, hot water, power, communications, and civil infrastructure. The design was coordinated with other improvements in the vicinity to provide a seamless transition for NASA's future plans to develop the area into a Central Campus.



Start Date: 2016

End Date: Ongoing

Client Contact:

Augustin Olmos
Environmental Program
Supervisor
352.246.6806
gus@co.alachua.fl.us_

Services:

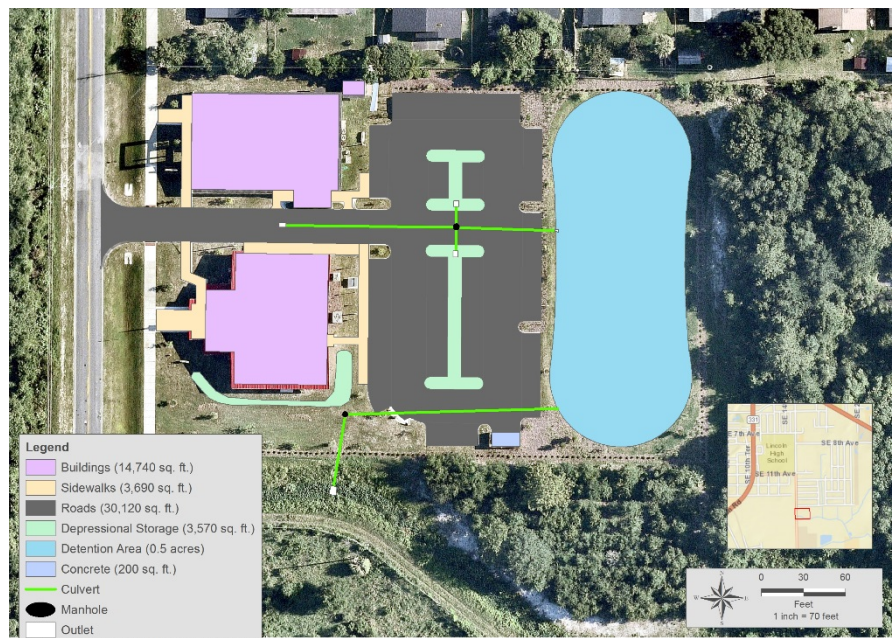
- Land Development
Standard Development
- Technical Report
Preparation

**Low-Impact Development Design Manual
Alachua County**

Alachua County is revamping their stormwater standards, in part, to address deficiencies in nutrient-removal performance using conventional best management practices (BMPs) and typical Water Management District design criteria. The County is concerned with reducing the nutrients in stormwater runoff near impaired surface water bodies, as well as reducing the nutrient in stormwater runoff directed to groundwater recharge.

Jones Edmunds initially developed five case studies to support the Alachua County Low-Impact Design (LID) Manual. The case studies include an evaluating the construction cost and performance of the conventional BMP compared to the construction cost and performance of developing the site using a LID. We developed opinions of the probable construction costs for the conventional and LID designs.

Jones Edmunds is now revising three of the case studies because Alachua County revised their proposed water quality code to eliminate the nutrient reduction criteria for discharges to groundwater. We are also developing five additional case studies, evaluating the lifetime maintenance costs of the conventional systems compared to the LID, and providing an opinion of lifetime maintenance costs for all 10 conventional stormwater systems compared to the same 10 sites developed with LID principles.



Start Date: 2011

End Date: 2013

Client Contact:

Edwards Lukacvic
Sr. Environmental Planner
904.255.7841
lukacov@coj.net

Services:

- Land Development Standard Development
- Technical Report Preparation

**Low-Impact Development Design Manual
Duval County**

Jones Edmunds developed a low impact development (LID) manual for Duval County based in part on the Sarasota County LID Manual. For the first element, Jones Edmunds determined which LID practices would be most suitable for Duval County for use in road rights-of-way. With concurrence from the City of Jacksonville, the Manual currently addresses three practices: shallow bioretention (i.e., bioretention modified for high groundwater tables), grassed conveyance swales, and pervious pavement. Future phases of the Manual are expected to add more practices. Practices were adapted to hydrologic conditions in Duval County and provide calculations for determining environmental resource permit (ERP) 'credits' – particularly when the practices are used as part of a treatment train. An important component of each practice is the consideration of operation and maintenance, which is incorporated in the design recommendations as well as the long-term requirements of the practices. Standard drawings and details were also developed for each practice. SJRWMD and FDEP were also integral to developing the Manual because of the implications for ERPs.

In developing the Manual, Jones Edmunds worked closely with Duval County staff, representing a wide range of County departments, to ensure that the LID Manual met their expectations. Jones Edmunds also worked with a large number of stakeholders in the region who attended monthly stakeholder meetings and provided feedback on the manual's development. Some of the additional stakeholders included other local municipalities, some of the surrounding counties, and private entities within the County.

Unique problems encountered and solutions devised: With a large, diverse group of stakeholders, we sometimes received conflicting comments on how particular parts of the Manual should read. We worked closely with our client to determine what was in their best interest while also being fair to future users of the Manual.



Start Date: 2006

End Date: 2007

Client Contact:

Robert Breciani
Technical Specialist, Water
Resources
941.861.0908
rbrescia@scgov.net

Services:

- Land Development
Standard Development
- Technical Report
Preparation

**Low-Impact Development Design Manual
Sarasota County**

Jones Edmunds developed a Stormwater Manual based on the County's review process and provided recommendations. The Manual covers data availability, modeling standards, and GIS standards, among other items. We worked closely with County staff during the manual development to incorporate County practices and precedents and find ways to improve efficiency.

Jones Edmunds developed a draft Stormwater Manual in hard copy and electronic formats for the County to review and met with the County to incorporate the County's comments. The Stormwater Manual covers submittal requirements, a summary of existing data available to submitters, and submittal standards. This Stormwater Manual merges state-of-the-art model maintenance techniques with providing consistency in the submittal-and-review processes.

Land development submittals generally follow the modeling and GIS standards established by the County and documented in the Stormwater Manual. The project was completed on budget and schedule.

This project demonstrates our capabilities with the County's modeling and GIS standards. A key project management element of these projects was creating standards and processes that are efficient, sustainable, and supportive of other County goals.



Start Date: 2007

End Date: 2009

Client Contact:

Tracy Straub, PE

Marion County Engineer

352.671.8686

tracy.straub@marioncountyfl.org

Services:

- Ecological Assessments, Monitoring, and Reporting
- Wetland Assessment, Delineation, Permitting, and Mitigation
- Stormwater Retrofit Design, Wetland Creation

SE 31st Street Retrofit

Marion County

With the construction of the SE 31st Street Retrofit, Marion County addressed a long-standing problem of untreated stormwater reaching the aquifer by draining into a large sinkhole. The formerly untreated stormwater drained from a 26-acre watershed just south of Ocala and flowed directly to the sinkhole via an upland cut ditch. This project attenuates peak flows and improves water quality before the stormwater discharges to the large sinkhole. Post-construction monitoring indicates that the treatment system is performing beyond expectations and is achieving a higher than designed level of water quality treatment.

Jones Edmunds assessed the site to determine vegetation community types and if jurisdictional wetlands, surface waters, or listed wildlife species are present. The project site is in the Sensitive Karst Areas Basin and contains five sinkholes in the north portion. Results of the ground-penetrating radar evaluation found approximately 13 anomalies, indicating that a subsurface feature such as a sinkhole may be found at this location. These data were used in the design to avoid excavating in these areas.

Jones Edmunds designed and permitted a lined 2.3-acre constructed wetland with a forebay and a small bioretention area that treated highway runoff before it entered the wetland. Jones Edmunds also secured a permit from the St. Johns River Water Management District, prepared bid documents and specifications, and provided construction services. The wetland and bioretention areas were constructed in uplands throughout the central and east portion of the project site. The emergent marsh treats the remaining suspended solids and dissolved organics, nutrients, and metals and provides water attenuation and wildlife habitat. The bioretention area treats runoff from a 0.9-acre area of US 441 and its right-of-way and overflows to the forebay and wetland. Among its numerous benefits, this stormwater treatment system achieves the following:

- Removes pollutants such as nitrogen, phosphorus, and heavy metals that typically occur in stormwater.
- Improves the water quality that discharges to the on-site sinkhole.
- Attenuates peak discharges.
- Maximizes stormwater detention time within the constructed wetland.
- Creates additional wildlife habitat.



Start Date: 2017

End Date: 2019

Client Contact:

Lois Rose

Solid Waste Manager

352.861.1589

lerose@schgov.net

Services:

- Water Quality Monitoring Report Preparation
- Groundwater Monitoring Plan Updates
- Preparation of Groundwater Potentiometric Surface Maps

Permitting and Compliance Assistance for Water Quality Issues and Investigations at Landfill Sites
Sarasota County

Jones Edmunds has assisted the County's Solid Waste Disposal Complex with the compliance monitoring and reporting for the Central County Solid Waste Disposal Complex and the Bee Ridge Class I Landfill under several project phases.

In previous project phases, Jones Edmunds assisted the County in the evaluating the slurry wall at the Bee Ridge Class I Landfill through design of a test plan and monitoring of the groundwater flow and gradient at the Landfill.

For the referenced project, Jones Edmunds prepared the semiannual water quality monitoring reports for the landfills. Preparation of the reports included reviewing the laboratory data, preparing groundwater potentiometric surface maps, and preparing and validating the electronic data deliverables. Additional assistance under this phase included updates to the groundwater monitoring plan and assisting to close out the FDEP Consent Order for contamination at the Bee Ridge facility.

This project demonstrates our capabilities reviewing laboratory data and preparing groundwater quality reports and potentiometric surface maps. A key project management element of this project was to ensure that permit deadlines were met. Two of our helpful project controls are our environmental database that allows us to quickly prepare trend graphs and compare laboratory data to water quality standards and our permit database that helps track permit deadlines and ensure our reports are delivered on time.

Start Date: 2006
End Date: 2011

Client Contact:

John Ryan
941.861.6270
jryan@scgov.net

Services:

- Surface Water Quality Modeling
- Surface Water Quality Sampling
- Technical Report Preparation

**Pollutant Loading Model Development
Sarasota County**

As part of its NPDES MS4 Phase 1 permit, Sarasota County needed to update its pollutant-load estimates. The County also required a pollutant-loading tool to help it participate in the TMDL program and to help establish water quality levels of service. Ease of use, the desire for spatially enabled data, and the ability to readily document and reproduce the pollutant-loading estimates led to the development of the



Spatially Integrated Model for Pollutant Loading Estimates (SIMPLE-Seasonal), a model that exists entirely within Esri's ArcMap 10.x interface. SIMPLE-Seasonal takes advantage of ArcMap's ability to integrate spatial features such as land use, soil characteristics, and areas served by various best management practices (BMPs) with relational databases and access their expansive object model interfaces. Pollutant loading estimates for the entire County can be made in a matter of minutes, and results are stored in a geodatabase organized by basin, pollutant source, and individual pollutant loads – which leads to easy-to-understand maps and tabular summaries.

Based on the success of SIMPLE-Seasonal and the County's desire for model verification and additional functionality, Jones Edmunds developed SIMPLE-Monthly as the second phase of this project. The additional functionality included developing an integrated surface water/groundwater hydrologic engine that supports monthly output (based on a daily computational time step), support of NEXRAD-derived rainfall, automatic changing of dynamic data (e.g., land use, BMP coverages, septic tanks, WWTPs) to easily simulate multiple years, the addition of several loading sources (e.g., multiple irrigation types), and automated reporting tools. Similar to the model development process, the monitoring performed for model verification began with a monitoring plan that was reviewed by a working group and peer reviewers. We calibrated water quantity using eight gauges covering a 3-year period representing wet, average, and dry years. Water quality calibration was based on monitoring from gauges throughout the County covering approximately 11 months of 2007 and 2008.

As part of the second phase of the project, Sarasota County and SWFWMD funded storm-event monitoring in medium-density residential areas to determine if there were significant differences in pollutant loads from areas served by curb and gutter versus areas served by swales. The monitoring was performed in two pairs of selected neighborhoods. The monitoring lasted for approximately 7 months and captured wet, dry, and average rainfall periods. A total of 40 events were monitored for event mean concentrations, and flow volume was captured for the full 7-month period.

Concentrations for nutrients, total suspended solids, and other pollutants were several times smaller in the neighborhoods served by swales versus those served by curb and gutter. Likewise, total flow volume was also several times lower in the curb and gutter neighborhoods. Total nitrogen and phosphorus loading were observed to be 93% and 82% lower, respectively, in the neighborhoods with swales. Also, the swaled neighborhoods exhibited runoff responses that were characteristic of no directly connected impervious area, suggesting that the role of infiltration in the swales is a significant contributor to the load differences.

Start Date: 2005

End Date: 2015

Client Contact:

Robert Bresciani
Technical Specialist, Water
Resources
941.861.0908
rbrescia@scgov.net

Services:

- Land Development
Stormwater Regulation
Implementation
- Training
- Expert Opinion

Sarasota County Land Development Reviews

Sarasota County

As part of its Stormwater Land Development Regulations for Site and Development Submittals and County Capital Improvement Plan Projects, the County has specific review criteria and methodologies that are applied to minimize adverse impacts from construction projects to the County's Stormwater Management System. The County stormwater permitting process requires permit applicants to use County-approved models to demonstrate that the proposed land changes will not cause adverse off-site drainage impacts. Due to the high volume of projects and the short turnaround time desired, the County sought supplemental support to assist with the reviews.

Permit applicants start with the County's existing condition model (ECM). The applicants typically have more detailed site-specific data and choose to create a Revised Existing Conditions Model (RECM). The RECM is submitted with supporting data for review and approval. Following County approval, the RECM becomes the basis for review relative to the Proposed Conditions Model (PCM).

Our reviews included a completeness review to quickly determine if the review could continue or needed to be rejected, a consistency check to confirm that the certified design plans and model files were consistent in their representation of water control features, and a compliance check to confirm no adverse off-site impacts and adequate water quality treatment and erosion control. Projects were evaluated using ICPR version 3, County watershed models, and the County's stormwater GIS databases.

Jones Edmunds provided review services on an as-needed basis for the County to assist in consistent application of the stormwater requirements in the County's land development code. We developed GIS and database tools to improve the efficiency of the development review process and led meetings with the County and other consultants to educate, coordinate, and streamline the overall stormwater review process.

Start Date: 2010

End Date: 2014

Client Contact:

Doug Tarbox
Project Manager
904.209.0124
dtarbox@sjcfl.us

Services:

- Coordinate TMDL Modeling
- Empirical Data Analysis
- Peer Review of LSPC and WASP Models
- Develop Conceptual Modeling Approach
- HSPF and WASP Model Development

Sixmile Creek TMDL Modeling
St. Johns County

St. Johns County is a stakeholder in several total maximum daily loads (TMDLs) developed by the Florida Department of Environmental Protection (FDEP) and the US Environmental Protection Agency (EPA). It is in the County's interest to ensure that the TMDLs are developed with good data and appropriate models. EPA proposed a dissolved oxygen (DO) TMDL for



Sixmile Creek (WBID No. 2411) that requires over 100,000 pounds of Total Nitrogen (TN) reduction and over 20,000 pounds of Total Phosphorus (TP) reduction annually. EPA developed the TMDLs based on Loading Simulation Program in C++ (LSPC) and Water Quality Analysis Simulation Program version 7 (WASP7) models (LSPC is an HSPF-variant). FDEP has not verified the DO impairment for Sixmile Creek and has not developed a TMDL. The Sixmile Creek watershed has significant wetlands and relatively small areas of development. It was beneficial for the County to develop these models and prepare for potential future nutrient-load reductions due to the potential financial and operational impacts to the County.

In this project, Jones Edmunds worked with County staff to accomplish the following:

- Organize and participate in meetings with the County, FDEP, and EPA to coordinate TMDL modeling efforts.
- Conduct an empirical data analysis to assess the relationship between DO and nutrients in Sixmile Creek, Sixteen Mile Creek, and Mill Creek.
- Peer review the LSPC and WASP models developed by EPA for Sixmile Creek.
- Formulate the conceptual approach to modeling Sixteen Mile and Mill Creeks with LSPC and WASP7.

The County, EPA, and FDEP agreed to the approach documented in the *Proposed Conceptual Approach to Developing a TMDL for Sixmile Creek* memorandum dated May 19, 2011. Jones Edmunds then worked with County staff to implement the approach discussed in the memorandum to determine the best predictor of the DO relationship to nutrients in Sixmile Creek. The resultant findings indicated that DO was more correlated with concentrations of organic carbon than with nutrients.

Start Date: 2010

End Date: 2018

Client Contact:

Jay Brawley, PE
County Engineer
904.209.0113
jbrawley@sjcfl.us

Services:

- Environmental Sampling
- Site Evaluation
- Environmental Assessment

**Ambient Water Quality Sampling and Stream Condition Indexes
St. Johns County**

The Florida Department of Environmental Protection (FDEP) develops total maximum daily loads (TMDLs) based on water quality data in the State's Impaired Waters Rule (IWR) database, which includes ambient water quality data collected by organizations across the State. Jones Edmunds assisted the County in establishing a water quality monitoring network to improve understanding of water quality dynamics in selected water bodies in the County and to support regional and local stormwater treatment design. Data from this effort helps to ensure that TMDLs covering water bodies in the County's jurisdiction are developed with data that appropriately characterize their water quality status.

Jones Edmunds conducted ambient and stormwater monitoring at 18 surface water stations from August 2011 through April 2018. Results of the ambient sampling will help determine if a water body may be impaired and potentially help to determine why it is impaired.

Stream Condition Indexes (SCIs) were also developed for five waterbodies of interest. The SCI is a biological assessment procedure that measures the degree to which flowing fresh waters support a healthy, well-balanced biological community, as indicated by benthic macroinvertebrates. Jones Edmunds conducted SCIs at five waterbodies that had a draft TMDL or were listed by FDEP as Category 4d. The 4d "Assessment Category" refers to "waterbodies that have been identified as not meeting water quality standards; however, a causative pollutant cannot be identified." Results of the SCIs indicate that these streams have healthy macroinvertebrate communities, low dissolved oxygen is a natural occurrence, and a TMDL is likely not needed. These data were submitted to FDEP for their review, and FDEP subsequently removed the five waterbodies from the Verified Impaired list.

To date, this water quality monitoring and SCI effort has resulted in important findings, provided critical data supporting reviews of existing or pending TMDLs, and significantly reduced the County's TMDL liabilities.



Start Date: 2009
End Date: Ongoing

Client Contact:

Ryan Mauch
Environmental Department
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rmauch@sjcfl.us

Services:

- Wetland Assessments and Mapping
- Wetland Jurisdictional Line Determination
- Mitigation Plan & Design
- Site Evaluation
- ERP Permitting
- UMAM Analysis
- Bid and Construction Services
- Compliance Monitoring

Basin 9 Regional Offsite Mitigation Area Design, Permitting, and Monitoring
St. Johns County

Most County transportation projects are linear, and all work must be conducted within a County right-of-way. As a result, mitigating wetland impacts on site within an often-narrow right-of-way is rarely feasible due to minimal land area and conflicting land uses. St. Johns County has proactively acquired large tracts of land in several



SJRWMD wetland mitigation basins to create several regional offsite mitigation areas (ROMAs) for County capital improvement plan (CIP) transportation projects. Jones Edmunds helped St. Johns County determine the mitigation potential, develop a mitigation plan, and obtain SJRWMD and US Army Corps of Engineers (USACE) permits for proposed wetland and upland restoration activities at the Rayonier and Terra Pointe properties to generate mitigation credits. These properties, totaling over 500 acres, were industrial pine plantations with extensive degraded wetlands throughout the sites.

Jones Edmunds identified potential restoration opportunities and delineated all on-site wetlands and surface waters using a combination of aerial photography interpretation and ground-truthing with handheld global positioning system units. We then developed detailed engineering design drawings for all mitigation areas, completed a complex Uniform Mitigation Assessment Method analysis to determine the number of mitigation credits that would be generated as a result of the proposed restoration activities, submitted ERP application packages to SJRWMD and USACE, and received both permits. Wetland mitigation activities identified and permitted include implementation of a controlled-burn program, installation of culverts and ditch plugs, pine thinning, supplemental planting, and exotic plant removal.

This ROMA generated 40 wetland mitigation credits that can be used in the SJRWMD Wetland Mitigation Basin 9 for County CIP project impacts. Additionally, the site may provide opportunities for limited public-resource-based recreation due to it being adjacent to Matanzas State Forest. Jones Edmunds is currently performing semi-annual compliance monitoring and annual reporting to the SJRWMD and USACE.



RELEVANT PROJECT EXPERIENCE

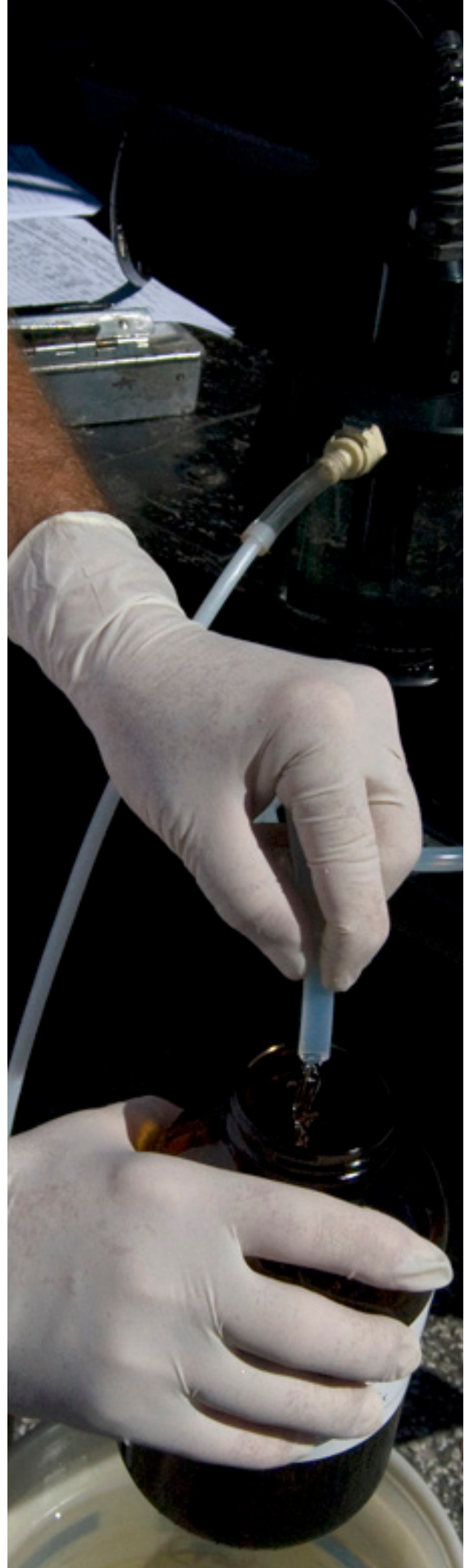
AIR QUALITY

- **Solid Waste Authority of Palm Beach County, Florida** - Developed comprehensive specifications and bid documents for an Asbestos Waste Relocation project at a landfill that involved moving buried asbestos waste from one cell to another. The work included writing work procedures to meet OSHA and NESHAP requirements for worker protection and air emissions. A detailed air monitoring program was developed that measured both particles (PM2.5 and PM10) as well as asbestos fibers by PCM and TEM methodologies. The work was unique in that this was the first asbestos waste relocation project done at a landfill in Florida.
- **Major Multi-Site Hospital, Florida** - Following a confirmed outbreak of a Legionnaire's Disease cases at a major hospital, conducted risk assessments for Legionella, including potable water sampling and biofilm sampling. This included collecting over 500 water samples and working with a mechanical engineer to review and assess the water distribution systems of the facility. This was followed by recommending appropriate Legionella emergency mitigation protocols, including super heating and hyper chlorination treatments, as well as working with the facility engineering and infection control departments to install a supplementary disinfection system. Unrelated to the Legionella outbreak, a separate project conducted for the same client involved assessing wide-spread mold contaminations within an HVAC system at the same hospital. This work included developing a protocol for culturable Opportunistic Fungal Pathogens sampling which was necessary due to the increased risk of infections for patients at the hospital.
- **University of North Florida, Florida** - Conducted assessments for water damage and mold contamination of a multi-story building on campus that had a history of leaks; developed a scope of work for remediation and conducting site supervision during remediation work. Assisted the University with budget forecast for other assessment and remediation projects related to water damage and mold contamination.
- **Florida Department of Corrections, Florida** - Conducted several comprehensive Indoor Air Quality (IAQ) assessments of administrative buildings and probation/parole office buildings for the Florida Department of Corrections. The assessments have included monitoring for general IAQ parameters, comfort parameters, as well as specific airborne chemical contaminants and biological contaminants. The work also included evaluations of the buildings' heating, ventilation and air-conditioning systems and making recommendations for improving the air quality in the buildings.



TAB 4

ABILITY OF
CONSULTANT'S
PROFESSIONAL
PERSONNEL



TAB 4. CONSULTANT'S
PROFESSIONAL PERSONNEL

TAB. 4 – ABILITY OF CONSULTANT’S PROFESSIONAL PERSONNEL

Below is a matrix that demonstrates the abilities of our professional personnel compare to the requested services listed in the RFP on pages 6-7. The legend on the second page describes which service the numbers on the y-axis of the matrix are referring to.

Names of Project Team Members	Required Capabilities																						
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Prime Consultant																							
Alan Foley, PE																							
Justin Gregory, PE																							
B.J. Bukata, MS, PWS, AA																							
Tim Cully																							
Elizabeth Kennelley, MS, CEPM																							
Kim Rivera, PE																							
Philip Stein																							
Grant Hill																							
Steve Messick																							
Suzanne Kaufman, PE																							
Brett Cunningham, PE																							
Troy Hays, PG																							
John Horvath, PE																							
Michelle Hays, MS, PG																							
Roberto Rosario, PE																							
Carol Sawyer, PE																							
Bruce Myhre, PhD, PE																							
Walter Nickel, PE																							
Amy Goodden, PE																							
Austin Wood, PE																							
Terri Lowery																							
Jamie Bell, PE, CFM																							
Matthew O'Brien, PE																							
Subconsultants																							
James Rizk, CIH (OHC)																							
Michael Lawn, RA (OHC)																							
David Deren, PSM (Deren)																							
Kris Ann Gath, PSM (Deren)																							
David Camacho (ENCO)																							
Matthew Foti, PhD (ENCO)																							
Philip Cobb, PhD., PE (Golder)																							
Andreas Wagner, M.Eng., CIH, ROH (Golder)																							
Salahuddin Mohammad, PE (Golder)																							
Gage Miller (Golder)																							
Kenneth Hill, PE (GSE)																							
Monrad Thue, PE (GSE)																							

TAB. 4 – ABILITY OF CONSULTANT’S PROFESSIONAL PERSONNEL

No.	Description of Required Capability
1	Field sampling and data collection, or supervision of such activities
2	Compilation, interpretation, and reporting of field data and laboratory analyses
3	Preparation of technical reports on assessment of groundwater, surface water, wastewater, storm water, air, or soil
4	Preparation of technical reports on potential environmental impacts from potential new pollution sources and the suitability of proposed pollution control and other technologies
5	Preparation of potentiometric surface maps and contaminant distribution maps
6	Review and interpretation of existing environmental contamination levels or potential emissions from pollution sources and comparison of contaminant levels
7	Modeling of existing or potential contaminant migration and remedial scenarios
8	Identification of new groundwater, surface water or ambient air contamination
9	Evaluation of environmental control alternatives and new technology assessment
10	Assistance in regulation and ordinance development in the areas of habitat protection, air quality, water quality, hazardous materials control
11	Environmental audits and assessments of properties
12	Drafting of land development regulations and ordinances, and performance of special studies involving environmental permitting and planning
13	Present public presentations of work products, attend public meetings and provide expert testimony relating to work performed in support of ordinance development, land development regulations or other assigned special environmental studies
14	Development of asbestos abatement project plans and specifications
15	Managing or performing asbestos abatement projects and administration of subcontractors
16	Project air monitoring and on-site consultation to assure on-going regulatory and health and safety compliance
17	Site surveys for the determination of the presence of asbestos containing materials, sample collection and bulk sample analysis
18	Providing training for County staff in asbestos or environmental sampling
19	Preparing reports for submittal to local, state and federal regulatory agencies
20	Performing indoor air quality assessments and industrial hygiene surveys
21	Wetland delineation and UMAM assessments
22	Developing construction-ready restoration plans with certified drawings for the county's natural areas and construction ready plans with certified drawings for stormwater management and improvement projects
23	Assisting the County during the construction and/or implementation restoration plans and stormwater management and improvement projects

TAB 5

ABILITY TO MEET
TIME AND BUDGET
REQUIREMENTS



TAB 5 – ABILITY TO MEET TIME AND BUDGET REQUIREMENTS

The Jones Edmunds team is committed to meeting our client-established schedules and budgets. We are experienced at providing services on a work-order basis, and this experience has provided us with an understanding of the flexibility required to adapt to our clients' needs and the importance of responsiveness. We understand that commitment alone will not result in successful projects. The combination of technical expertise, established procedures, and our commitment enables projects to be completed on time and within budget. Using our proven management procedures on each assignment maximizes the efforts of our project team.

Our team's work assignments will start with a Project Plan. This plan is developed by our Project Manager with input from the client and key members of our project team. The Plan provides a mechanism to distribute to the entire project team fundamental project information critical to a successful project. The Project Plan outlines the scope of work, identifies project team personnel including individual responsibilities and tasks, defines the project schedule, identifies quality control and quality assurance (QA/QC) personnel, establishes a communications plan, and outlines methods for reporting progress on the work assignment to the client.

PROJECT PLAN

The project plan:

- Will be customized to comply with the client and various regulatory requirements
- Identifies your vision and critical measures of success
- Provides risk assessment and identifies prevention and mitigation measures
- Is developed by and for the project team and therefore establishes and reinforces the required level of commitment from individual team members to achieve the goals of the project
- Communicates to the entire team their roles and responsibilities. It conveys not only the scope of work, but also the goals to be achieved and the milestones to be met
- Allows early identification of concerns to minimize issues later. The objective is to detect deviation from the project goals set forth in the Project Plan as early as possible so that corrective actions and adjustments in resource allocation can be made with minimal impact on project performance
- Establishes a QA/QC plan
- Provides a road map for the project

SCHEDULE CONTROL

Jones Edmunds has a successful history of meeting the needs and schedules of our clients. Through our innovative approaches and effective allocation of staff and resources, we can respond to our clients when emergencies arise and meet deadlines that may be a result of pre-existing scheduled operations, resident demands, funding application deadlines, greater efficiency demands, or permitting constraints. Our Contract Manager – Alan Foley – and Assistant Contract Manager – Justin Gregory – are committed to serving you and making sure that the necessary staff and resources are allocated to meet your project goals.

TAB 5 – ABILITY TO MEET TIME AND BUDGET REQUIREMENTS

COST CONTROL

Project Planning						
P_Myhre_HayesGlen_Alachua County Retrieve Mode: All Data * ETC/JTD Date: 4/23/2019						
Multiplier Summary						
	Planned Mult.	Effective Mult.	EAC Mult.	Budget Mult.	Target Mult.	
Cost	3.09	8.57	8.60	8.57	0.00	
Billing	1.00	0.00	0.00	0.00	0.00	
Revenue Summary						
	Labor	Expenses	Consultants	Total		
Planned	13,360.00	0.00	0.00	13,360.00		
JTD	N/A	N/A	N/A	13,323.00		
Compensation Summary						
Comp.	FeeDirLibr	FeeDirExp	FeeDirCon	Reim.Allow	FeeReimExp	FeeReimCon
13,283	13,283	0	0	40	40	0
Total						13,323
Cost Summary						
	Labor	Expenses	Consultants	Total Amt	Total Hrs	
Baseline	4,312.00	40.00	0.00	4,352.00	97.00	
Planned	4,312.00	0.00	0.00	4,312.00	97.00	
JTD	1,549.99	46.25	0.00	1,596.24	36.00	
ETC	0.00	0.00	0.00	0.00	0.00	
EAC	1,549.99	0.00	0.00	1,549.99	36.00	
Planned - EAC	2,762.01	0.00	0.00	2,762.01	61.00	
Billing Summary						
	Labor	Expenses	Consultants	Total Amt	Total Hrs	
Baseline	13,360.00	40.00	0.00	13,400.00	97.00	
Planned	13,360.00	0.00	0.00	13,360.00	97.00	
JTD	0.00	0.00	0.00	0.00	36.00	
ETC	0.00	0.00	0.00	0.00	0.00	
EAC	0.00	0.00	0.00	0.00	36.00	
Planned - EAC	13,360.00	0.00	0.00	13,360.00	61.00	

Cost control is provided through a customized version of Deltek Vision, an industry-leading web-based software that incorporates all our business functions, including resource management, project management, accounting, marketing, time-and-expense capture, and billing. This software integrates Jones Edmunds' departmental operations and functions and serves as a centralized hub for efficient resource allocation, project budget and schedule tracking, and reporting.

Our managers use real-time data and their knowledge of client goals to track project performance weekly. Various reports can be generated through Deltek Vision, sorting project information by individual task or even by individual employee. This allows project managers to easily access data critical to monitoring and controlling project costs. In short, Jones Edmunds' internal system of information management

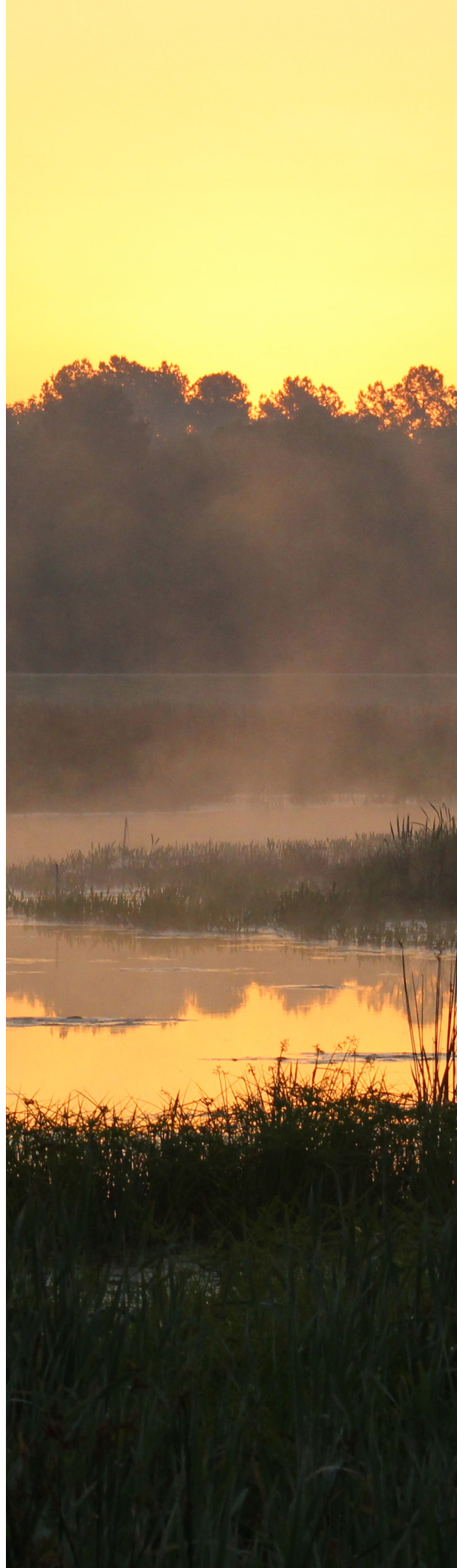
ensures the level of planning and the quality of execution needed to meet your goals on every project. Jones Edmunds has a successful record of completing time-and-material as well as lump-sum-type projects for clients within established budgets.

PROJECT TEAM CONTINUITY

Maintaining project team continuity throughout your project is critical to its success. Jones Edmunds developed a company-wide approach to ensuring that projects are completed on-time, within budget, and to clients' satisfaction. Alan Foley and Justin Gregory will be your points of contact for all assignments performed under this contract. Using the resources and proven management tools available within the Jones Edmunds organization, they will monitor each step of each project. Individuals dedicated to your project will be committed to meeting deliverable milestones.

TAB 6

EFFECT OF PROJECT
TEAM LOCATION ON
PROJECT RESPONSES



TAB 6 – EFFECT OF PROJECT TEAM LOCATION ON PROJECT RESPONSES

Jones Edmunds has called Alachua County home since our inception in 1974, and our Gainesville office is only 1 mile from your downtown office. We have over 80 staff members in our local office – our company headquarters. From this location we can be highly responsive to your needs. Almost all our Gainesville staff are Alachua County residents. Our staff and team members have a vested interest in and concern regarding local issues.

Our staff is committed to maintaining the County's environmental integrity. **The people working on your projects live and work in this community and have a personal interest in the area.**



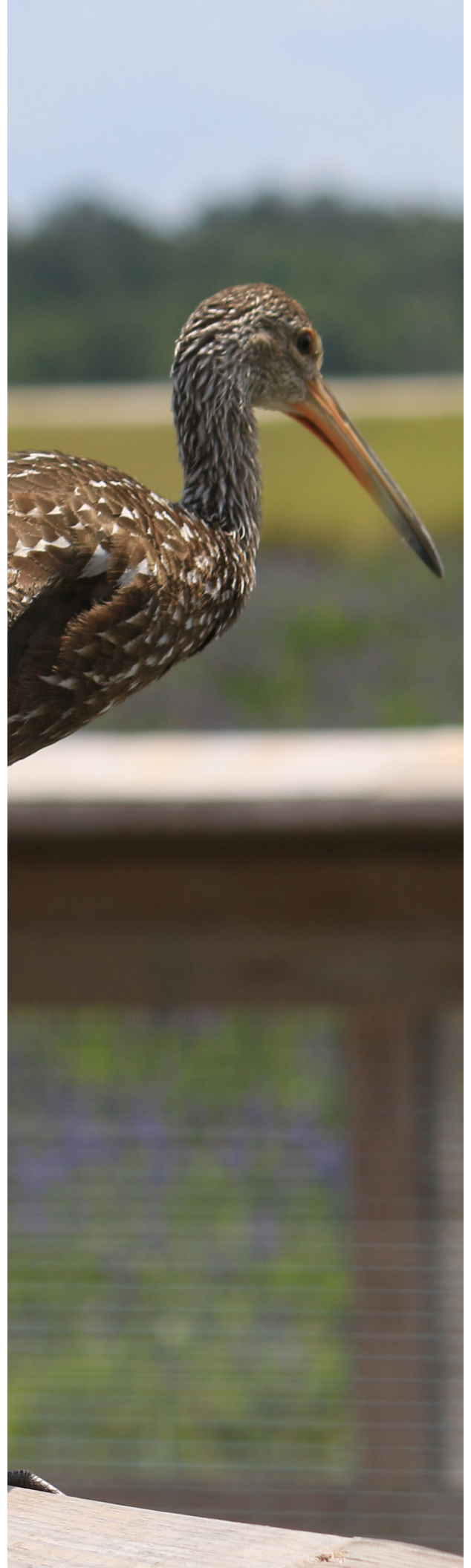
ESTABLISHED RELATIONSHIPS WITH STATE AND LOCAL AGENCIES

Jones Edmunds has outstanding relationships with local governing agencies and Alachua County communities including the City of Gainesville/Gainesville Regional Utilities, St. Johns River Water Management District, Suwannee River Water Management District, Florida Department of Environmental Protection, Florida Department of Transportation, and the City of Newberry. These relationships will be beneficial for permitting the County's projects as well as for conducting public outreach.



TAB 7

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	
<input checked="" type="checkbox"/>	I certify that my business is located in Alachua County and meets the criteria for location points as specified in Section 1.14.
<input type="checkbox"/>	I am not a local based firm in Alachua County.

Proposer: Kenneth S. Vogel, PE Company: Jones Edmunds & Associates, Inc.

Address: 730 NE Waldo Road
Gainesville, FL 32641

Authorized Signature:  Title: Managing Director

Clearly Print Name: Kenneth S. Vogel, PE

PHONE: 352.377.5821 FAX: 352.377.3166 DATE: 4/8/2019

Email Address: kvogel@jonesedmunds.com



Alachua County Budget and Fiscal Services Division of Purchasing

Larry M. Sapp, CPPB
Purchasing Manager

Darryl R. Kight, CPPB
Purchasing Supervisor

March 29, 2019

RE: Addendum #1
RFP 20-171; Annual Environmental Consulting Services

Dear Sir/Madam:

Please be aware of the following clarifications regarding the above referenced Bid:

Questions & Answers

Q #1: Can you please tell me what the dollar value of the Annual Environmental Contract Consulting Services contract has been over the past term? I believe the previous solicitation number for the contract was RFP #16-171.

A #1: The not to exceed amount for the term of the current contract is 2,985,000.00.

NOTE: You should acknowledge receipt of this addendum on your Bid Form.

End of Addendum #1

Sincerely,

Mandy Mullins

Mandy Mullins
Purchasing Agent

MM



Alachua County Budget and Fiscal Services Division of Purchasing

Larry M. Sapp, CPPB
Purchasing Manager

Darryl R. Kight, CPPB
Purchasing Supervisor

April 1, 2019

RE: Addendum #2
RFP 20-171; Annual Environmental Consulting Services

Dear Sir/Madam:

Please be aware of the following clarifications regarding the above referenced Bid:

Questions & Answers

Q #1: What type of work has been released by the County under the contract associated with RFP 16-171?

A #1: Phase I and II Environmental Site Assessments, Springs Biological Assessments, Stormwater Leaching Study, Advanced Septic Tanks Systems Study and Upgrades, Stormwater Retrofits Projects Designs, Permeable Reactive Weir Design and Construction, Technical Support Related to various projects.

NOTE: You should acknowledge receipt of this addendum on your Bid Form.

End of Addendum #1

Sincerely,

Mandy Mullins

Mandy Mullins
Purchasing Agent

MM



Alachua County Budget and Fiscal Services Division of Purchasing

Larry M. Sapp, CPPB
Purchasing Manager

Darryl R. Kight, CPPB
Purchasing Supervisor

April 15, 2019

RE: Addendum #3
RFP 20-171; Annual Environmental Consulting Services

Dear Sir/Madam:

Please be aware of the following clarifications regarding the above referenced Bid:

Questions & Answers

Q #1: Does the County require the Respondent to provide all of the expertise and services necessary to complete all potential projects outlined in the RFP or will the County consider awarding a contract to a Respondent that provides the expertise and services necessary to fulfill a subset of the potential projects outlined in the RFP?

A #1: Yes, we will consider awarding a contract to a Respondent that provides the expertise and services necessary to fulfill a subset of the potential projects outlined in the RFP.

DELETE: SECTION 8.9 Indemnification

To the maximum extent permitted by Florida law, the Professional shall defend, indemnify and hold harmless the County and its officers and employees from any and all liabilities, claims, damages, penalties, demands, judgments, actions, proceedings, losses or costs, including, but not limited to, reasonable attorneys' fees and paralegals' fees, whether resulting from any claimed breach of this Agreement by the Professional or from personal injury, property damage, direct or consequential damages, or economic loss, to the extent caused by the negligence, recklessness, or intentional wrongful misconduct of the Professional or anyone employed or utilized by the Professional in the performance of this Agreement.

The duty to defend under this Article is independent and separate from the duty to indemnify, and the duty to defend exists regardless of any ultimate liability of the Professional, the County and any indemnified party. The duty to defend arises immediately upon presentation of a claim by any party and written notice of such claim being provided to the Professional. The Professional's obligation to indemnify and defend under this Article will survive the expiration or earlier termination of this Agreement until it is determined by final judgment that an action against the County or an indemnified party for the matter indemnified hereunder is fully and finally barred by the applicable statute of limitations.

Nothing contained herein shall constitute a waiver by the County of sovereign immunity or the provisions of §768.28, Florida Statutes

ADD: SECTION 8.9 Indemnification

To the maximum extent permitted by Florida law, the Professional shall indemnify and hold harmless the County and its officers and employees from any and all liabilities, damages, losses and costs, including, but not limited to, reasonable attorneys' fees, caused by the negligence, recklessness, or intentional wrongful misconduct of the Professional or anyone employed or utilized by the Professional in the performance of this Agreement. Professional agrees that indemnification of the County shall extend to any and all Work performed by the Professional, employees, agents, servants or assigns.

The Professional obligation to indemnify under this Article will survive the expiration or earlier termination of this Agreement until it is determined by final judgment that an action against the County or an indemnified party for the matter indemnified hereunder is fully and finally barred by the applicable statute of limitations

This obligation shall in no way be limited in any nature whatsoever by any limitation on the amount or type of Professional insurance coverage. This indemnification provision shall survive the termination of the Agreement between the County and the Professional.

In any and all claims against the County or any of its agents or employees by any employee of the Professional, any Subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, the indemnification obligation under this Article shall not be limited in any way by any limitation on the amount or type of damages, compensation or benefits payable by or for the Professional or any Subcontractor under workers' compensation acts, disability benefit acts or employee benefit acts

Nothing contained herein shall constitute a waiver by the County of sovereign immunity or the provisions or limits of liability of §768.28, Florida Statutes

NOTE: You should acknowledge receipt of this addendum on your Bid Form.

End of Addendum #3

Sincerely,

Mandy Mullins

Mandy Mullins
Purchasing Agent

MM

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.

Deren Land Surveying	
SBE Name of Contractor 4605 NW 6th St., Ste. H, Gainesville, FL 32609	SBE Name of Contractor
Address Surveying	Address
Scope of Work to be Performed \$ <u>TBD</u> <u>7.5</u> % (Est \$ Value) (Est % of Total Bid)	Scope of Work to be Performed \$ _____ % (Est \$ Value) (Est % of Total Bid)
<small>* The exact amount of the contract is unknown; however 7.5% will go to the subcontractor.</small>	
GSE Engineering & Consulting, Inc.	
SBE Name of Contractor 5590 SW 64th St., Gainesville, FL 32608	SBE Name of Contractor
Address Geotechnical and Structural	Address
Scope of Work to be Performed \$ <u>TBD</u> <u>7.5</u> % (Est \$ Value) (Est % of Total Bid)	Scope of Work to be Performed \$ _____ % (Est \$ Value) (Est % of Total Bid)
<small>* The exact amount of the contract is unknown; however 7.5% will go to the subcontractor.</small>	
SBE Name of Contractor	SBE Name of Contractor
Address	Address
Scope of Work to be Performed \$ _____ % (Est \$ Value) (Est % of Total Bid)	Scope of Work to be Performed \$ _____ % (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.)

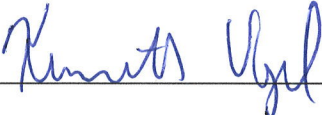
1	Name of SBE Company:	Date SBE Contacted
SBE Contact Name: Phone:		/ /
Must be completed by. SBE Response when contacted:		
2	Name of SBE Company:	Date SBE Contacted
SBE Contact Name: Phone:		/ /
Must be completed by. SBE Response when contacted:		
3	Name of SBE Company:	Date SBE Contacted
SBE Contact 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: Jones Edmunds & Associates, Inc. Date 4/8/2019Signature  Title Managing DirectorPrinted Name: Kenneth S. Vogel, PE Title Managing Director

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																														
<p>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:</p> <p>Percentage of Certified Small Participation:</p> <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		
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																												
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	5																													

ALACHUA COUNTY GOVERNMENT MINIMUM WAGE (GMW) FORM

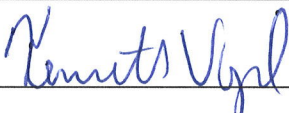
RFP 20-171: Annual Environmental Consulting Services

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.	<input checked="checked" type="checkbox"/> Employees involved with Alachua County projects are paid a minimum of \$13.00 hourly and are provided health benefits?
2.	<input type="checkbox"/> Employees involved with Alachua County projects are paid a minimum of \$15.04 hourly but are not provided health benefits?

Bidder: Jones Edmunds & Associates, Inc. Company: Jones Edmunds & Associates, Inc.

Authorized Signature:  Title: Managing Director

Clearly Print Name: Kenneth S. Vogel, PE Phone: 352.377.5821

Email Address: kvogel@jonesedmunds.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).

COMPLETED

PERIOD	ACTUAL FEE	FACTOR	ADJUSTED FEE
Current and last year (Oct 1 – Sept 30)	\$172,486.00	X 1.0	\$172,486.00
Second year past (Oct 1 – Sept 30)	\$366,880.00	X .08	\$29,350.40
Third year past (Oct 1 - Sept 30)	\$124,918.00	X .06	\$7,495.08
TOTAL ADJUSTED FEE CONSIDERED			\$209,331.48

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	<div style="display: flex; align-items: center; justify-content: center;"> <div style="font-size: 2em; margin-right: 10px;">2</div> <div style="border-bottom: 1px solid black; width: 150px; margin-right: 10px;"></div> <div>points</div> </div>
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.**

OHC Environmental Engineering, Inc.	
Name of Contractor	Name of Contractor
5420 Bay Center Dr, Ste 100 Tampa, Florida 33609	
Address	Address
Asbestos and Abatement	
Scope of Work to be Performed	Scope of Work to be Performed
\$ <u>TBD</u> <u>2</u> % (Total \$ Value) (Total Bid/RFP)	\$ _____ % (Total \$ Value) (Total Bid/RFP)
* The exact amount of the contract is unknown; however 2% will go to the subcontractor.	
ENCO Laboratories, Inc.	
Name of Contractor	Name of Contractor
10775 Central Port Drive, Orlando, FL 32824	
Address	Address
Laboratory Analytical Services	
Scope of Work to be Performed	Scope of Work to be Performed
\$ <u>TBD</u> <u>2</u> % (Total \$ Value) (Total Bid/RFP)	\$ _____ % (Total \$ Value) (Total Bid/RFP)
* The exact amount of the contract is unknown; however 2% will go to the subcontractor.	
Golder Associates, Inc.	
Name of Contractor	Name of Contractor
6026 NW 1st Place, Gainesville, FL 32607	
Address	Address
Air Quality	
Scope of Work to be Performed	Scope of Work to be Performed
\$ <u>TBD</u> <u>2</u> % (Total \$ Value) (Total Bid/RFP)	\$ _____ % (Total \$ Value) (Total Bid/RFP)
* The exact amount of the contract is unknown; however 2% will go to the subcontractor.	
Name of Contractor	Name of Contractor
Address	Address
Scope of Work to be Performed	Scope of Work to be Performed
\$ _____ % (Total \$ Value) (Total Bid/RFP)	\$ _____ % (Total \$ Value) (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

Jones Edmunds & Associates, 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 Kenneth S. Vogel, PE

4/8/2019

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.

Kenneth S. Vogel 4/8/2019
 Bidder's Signature Kenneth S. Vogel, PE 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



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

11/6/2018

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 McLaughlin Brunson A Risk Strategies Company 12801 N CENTRAL EXPY, STE 1710 Dallas, TX 75243	CONTACT NAME: Brian R Hadar PHONE (A/C, No, Ext): (214) 503-1212 E-MAIL ADDRESS: certificate@mclaughlinbrunson.com FAX (A/C, No): (214) 503-8899														
INSURED Jones Edmunds & Associates, Inc., 730 N.E. Waldo Road Gainesville FL 32651	<table><tr><th>INSURER(S) AFFORDING COVERAGE</th><th>NAIC #</th></tr><tr><td>INSURER A: Phoenix Insurance Company</td><td>25623</td></tr><tr><td>INSURER B: Travelers Indemnity Co of America</td><td>25666</td></tr><tr><td>INSURER C: Travelers Indemnity Company</td><td>25658</td></tr><tr><td>INSURER D: Travelers Casualty and Surety Company</td><td>19038</td></tr><tr><td>INSURER E: XL Specialty Insurance Company</td><td>37885</td></tr><tr><td>INSURER F:</td><td></td></tr></table>	INSURER(S) AFFORDING COVERAGE	NAIC #	INSURER A: Phoenix Insurance Company	25623	INSURER B: Travelers Indemnity Co of America	25666	INSURER C: Travelers Indemnity Company	25658	INSURER D: Travelers Casualty and Surety Company	19038	INSURER E: XL Specialty Insurance Company	37885	INSURER F:	
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INSURER D: Travelers Casualty and Surety Company	19038														
INSURER E: XL Specialty Insurance Company	37885														
INSURER F:															

COVERAGES**CERTIFICATE NUMBER:** 45263944**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	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:			6802J380395	6/30/2018	6/30/2019	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 \$
B	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY			BA1958L731	6/30/2018	6/30/2019	COMBINED SINGLE LIMIT (Ea accident) \$1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
C	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$10,000			CUP6513Y228	6/30/2018	6/30/2019	EACH OCCURRENCE \$5,000,000 AGGREGATE \$5,000,000 \$
D	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N <input type="checkbox"/>	N/A	UB3911T03	6/30/2018	6/30/2019	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> 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
E	Professional Liability			DPR9928226	6/30/2018	6/30/2019	Per Claim \$5,000,000 Annual Aggregate \$5,000,000

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

The claims made professional liability coverage is the total aggregate limit for all claims presented within the annual policy period and is subject to a deductible. Thirty (30) day notice of cancellation in favor of the certificate holder on all policies.

CERTIFICATE HOLDER

For Proposal Purposes Only

CANCELLATION

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

AUTHORIZED REPRESENTATIVE

Brian Hadar

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ACORD 25 (2016/03)

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EQUAL EMPLOYMENT OPPORTUNITY POLICY STATEMENT

It is the policy of Jones Edmunds & Associates (Jones Edmunds) not to discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, gender identity, national origin, age, marital status, genetic information, disability or because he or she is a protected veteran. We encourage current minority and female employees to recruit other minorities and females. It is also the policy of Jones Edmunds to take affirmative action to employ and to advance in employment, all persons regardless of race, color, religion, sex, sexual orientation, gender identity, national origin, age, marital status, genetic information, disability or protected veteran status, and to base all employment decisions only on valid job requirements. We also encourage employees to seek or prepare for promotional opportunities through appropriate training. This policy shall apply to all employment actions, including but not limited to recruitment, hiring, upgrading, promotion, transfer, demotion, layoff, recall, termination, rates of pay or other forms of compensation and selection for training, including apprenticeship, at all levels of employment.

Employees and applicants of Jones Edmunds will not be subject to harassment on the basis of race, color, religion, sex, sexual orientation, gender identity, national origin, age, marital status, genetic information, disability or because he or she is a protected veteran. Additionally, retaliation, including intimidation, threats, or coercion, because an employee or applicant has objected to discrimination, engaged or may engage in filing a complaint, assisted in a review, investigation, or hearing or have otherwise sought to obtain their legal rights under any Federal, State, or local EEO law is prohibited.

As President and CEO of Jones Edmunds, I am committed to the principles of Affirmative Action and Equal Employment Opportunity. In order to ensure dissemination and implementation of Equal Employment Opportunity and affirmative action throughout all levels of the company, I have selected Ginger H. Hamner, Human Resources Director, as the Equal Employment Opportunity (EEO) Manager for Jones Edmunds. One of the EEO Manager's duties will be to establish and maintain internal audit and reporting systems to allow for effective measurement of Jones Edmunds's programs.

In furtherance of Jones Edmunds's policy regarding Affirmative Action and Equal Employment Opportunity, Jones Edmunds has developed a written Affirmative Action Program which sets forth the policies, practices and procedures that Jones Edmunds is committed to in order to ensure that its policy of nondiscrimination and affirmative action is accomplished. This Affirmative Action Program is available in the Human Resources office for inspection by any employee or applicant for employment upon request, during normal business hours. Interested persons should contact Ginger H. Hamner for assistance.

We request the support of all employees in accomplishing Equal Employment Opportunity.



Stanley F. Ferreira, Jr., PE
January 1, 2019
Jones Edmunds & Associates

CURRENT ALACHUA COUNTY SMALL BUSINESS CERTIFICATE

Jones Edmunds has complemented our team with subcontractors. Two of our five subcontractors are certified with Alachua County as Small Business Enterprises.

DEREN LAND SURVEYING, LLC

4605 NW 6TH STREET, UNIT H, GAINESVILLE, FL 32609

Contact: DAVID DEREN

Email: dave@derenlandsurveying.com

Business Tel: (352) 331-0010

Fax Number: (352) 336-1084

Cert. Type: SMALL

Description:

LAND SURVEYING

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

VERIFIABLE REFERENCES

Jones Edmunds principals and staff members have a firm belief that we have a responsibility to apply our knowledge and expertise to provide high-quality professional services with loyalty, personal commitment, and technical excellence. We value our clients and are devoted to their interests. Their opinion of our capabilities and commitment reflects our dedication to client satisfaction. We encourage you to contact the references listed below for a third-party opinion of the level of our performance.

Client Name: Alachua County

Project Name: Landfill Compliance Monitoring

Contact Name/Title: David Wood, PG

Address: 5620 NW 120 Lane, Gainesville, FL 32653

Phone Number: 352.374.5213

Project Manager Name: Tim Cully

Key Staff Person(s) Names: Elizabeth Kennelly, Steve Messick, Grant Hill

Client Name: Alachua County

Project Name: Low-Impact Development Design Manual

Contact Name/Title: Augustin Olmos, Environmental Program Supervisor

Address: 408 West University Ave, Ste 106, Gainesville, FL 32601 Phone Number: 352.246.6806

Project Manager Name: Justin Gregory

Key Staff Person(s) Names: Amy Goodden, Austin Wood

Client Name: Gainesville Regional Utilities (GRU)

Project Name: Sweetwater/Paynes Prairie Sheetflow Restoration

Contact Name/Title: Brett Goodman, PE

Address: PO Box 147117, Station K36, Gainesville, FL 32614

Phone Number: 352.393.6704

Project Manager Name: Walt Nickel

Key Staff Person(s) Names: Amy Goodden, Matt O'Brien, Carol Sawyer, BJ Bukata, Alan Foley, Justin Gregory, Brett Cunningham, Michelle Hays, Troy Hays, Phil Stein, Bruce Myhre

Client Name: St. Johns County

Project Name: Basin 9 Regional Offsite Mitigation Area Design, Permitting and Monitoring

Contact Name/Title: Ryan Mauch, Environmental Department

Address: 4040 Lewis Speedway, St. Augustine, FL 32084

Phone Number: 904.209.0621

Project Manager Name: BJ Bukata

Key Staff Person(s) Names: Phil Stein, Bruce Myhre

Client Name: St. Johns County

Project Name: Sixmile Creek TMDL Modeling

Contact Name/Title: Doug Tarbox, Project Manager

Address: 2740 Industry Center Road, St. Augustine, FL 32084

Phone Number: 904.209.0124

Project Manager Name: Alan Foley

Key Staff Person(s) Names: BJ Bukata, Brett Cunningham, Suzanne Kaufman, Justin Gregory, Phil Stein

Client Name: St. Johns County

Project Name: Ambient Water Quality Sampling and Stream Condition Indexes

Contact Name/Title: Jay Brawley, PE, County Engineer

Address: 2740 Industry Center Road, St. Augustine, FL 32084

Phone Number: 904.209.0113

Project Manager Name: BJ Bukata

Key Staff Person(s) Names: Grant Hill, Alan Foley, Phil Stein, Elizabeth Kennelly

VERIFIABLE REFERENCES

Client Name: Marion County

Project Name: SE 31st Street Retrofit

Contact Name/Title: Tracy Straub, PE

Address: 412 SE 25th Ave., Ocala, FL 34471

Phone Number: 352.671.8686

Project Manager Name: BJ Bukata

Key Staff Person(s) Names: Alan Foley, Matt O'Brien

Client Name: Sarasota County

Project Name: Low-Impact Development Design Manual

Contact Name/Title: Robert Bresciani, Technical Specialist, Water Resources

Address: 1001 Sarasota Center Blvd., Sarasota, FL 34240

Phone Number: 941.861.0908

Project Manager Name: Justin Gregory

Key Staff Person(s) Names: Brett Cunningham, Amy Goodden

Client Name: Sarasota County

Project Name: Development Reviews

Contact Name/Title: Robert Bresciani, Technical Specialist, Water Resources

Address: 1001 Sarasota Center Blvd., Sarasota, FL 34240

Phone Number: 941.861.0908

Project Manager Name: Suzanne Kaufman

Key Staff Person(s) Names: Brett Cunningham, Alan Foley, Justin Gregory

PROFESSIONAL CERTIFICATION/LICENSES

JONES EDMUNDS & ASSOCIATES, INC.

State of Florida Department of State

I certify from the records of this office that JONES, EDMUNDS & ASSOCIATES, INC. is a corporation organized under the laws of the State of Florida, filed on May 14, 1974.

The document number of this corporation is 452905.

I further certify that said corporation has paid all fees due this office through December 31, 2019, that its most recent annual report/uniform business report was filed on January 31, 2019, and that its status is active.

I further certify that said corporation has not filed Articles of Dissolution.

*Given under my hand and the
Great Seal of the State of Florida
at Tallahassee, the Capital, this
the Thirty-first day of January,
2019*



Jennifer Kennedy
Secretary of State

Tracking Number: 5908730085CC

To authenticate this certificate, visit the following site, enter this number, and then follow the instructions displayed.

<https://services.sunbiz.org/Filings/CertificateOfStatus/CertificateAuthentication>

Ron DeSantis, Governor
Halley Beshars, Secretary

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF PROFESSIONAL ENGINEERS

THE ENGINEERING BUSINESS HEREIN IS AUTHORIZED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

JONES, EDMUNDS & ASSOC INC
730 N E WALDO RD
GAINESVILLE FL 326410000

LICENSE NUMBER: CA1841
EXPIRATION DATE: FEBRUARY 28, 2021
Always verify licenses online at MyFloridaLicense.com

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RICK SCOTT, GOVERNOR
JONATHAN ZACHEM, SECRETARY

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF PROFESSIONAL GEOLOGISTS

THE GEOLOGY BUSINESS HEREIN IS CERTIFIED UNDER THE PROVISIONS OF CHAPTER 492, FLORIDA STATUTES

JONES, EDMUNDS & ASSOCIATES, INC.
730 NE WALDO ROAD
GAINESVILLE FL 32641

LICENSE NUMBER: GB133
EXPIRATION DATE: JULY 31, 2020
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Ron DeSantis, Governor

STATE OF FLORIDA
BOARD OF PROFESSIONAL ENGINEERS

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FOLEY, ALAN CHRISTOPHER
2911 NW 21 AVENUE
GAINESVILLE FL 32605

LICENSE NUMBER: PE60075
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Halley Beshars, Secretary

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DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF PROFESSIONAL ENGINEERS

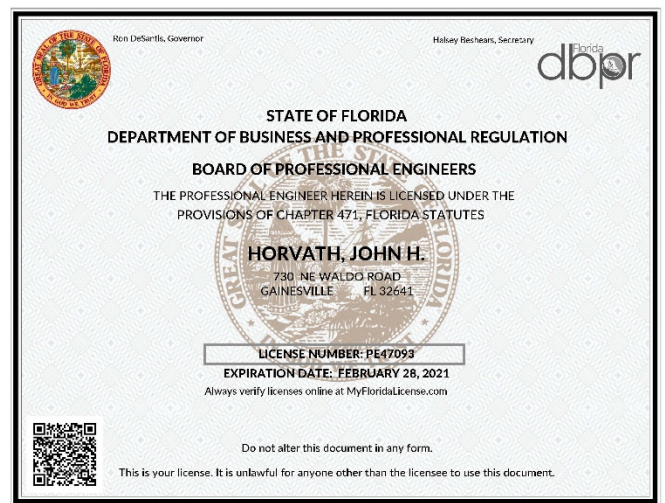
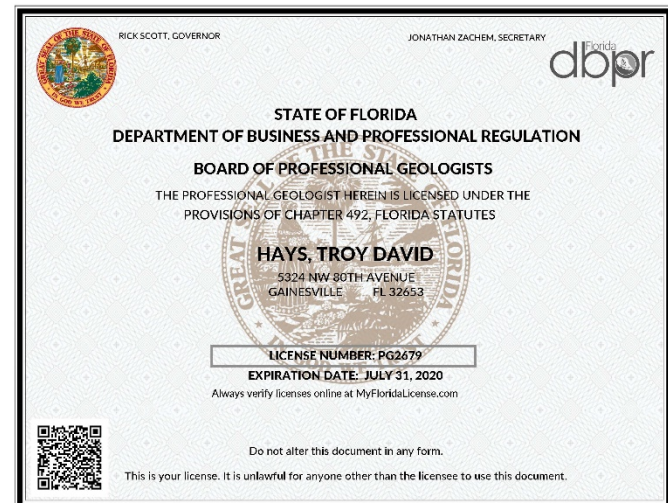
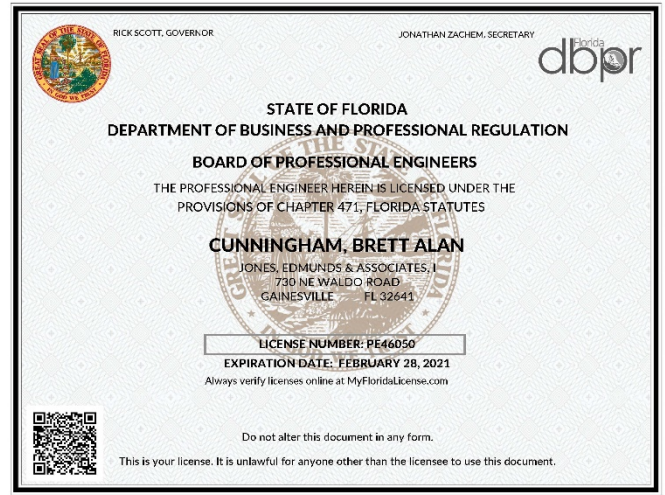
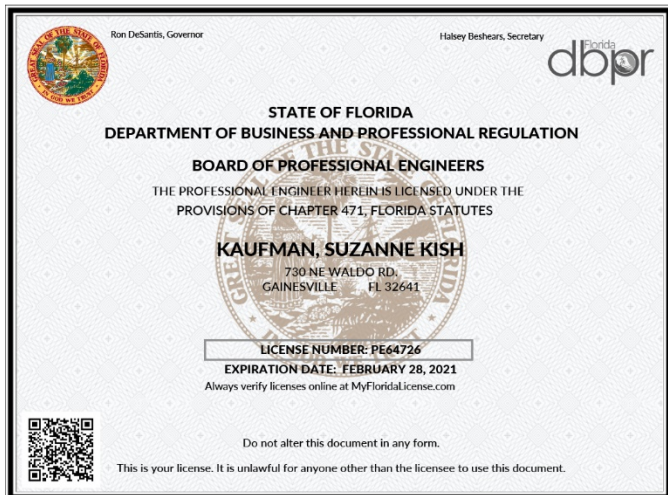
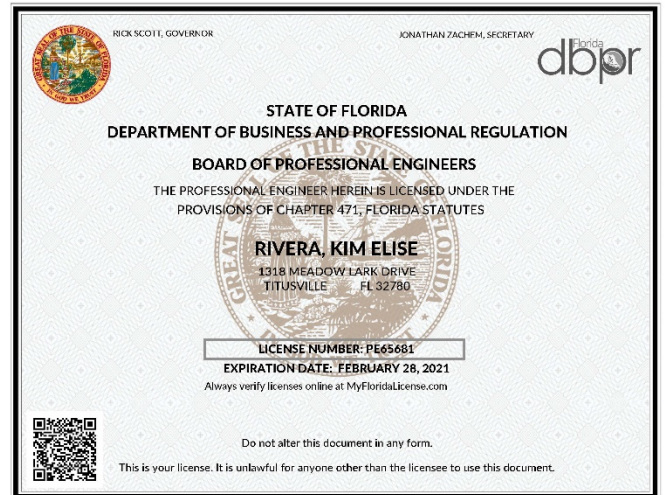
THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

GREGORY, JUSTIN HAIG
6322 SW 37 WAY
GAINESVILLE FL 32608

LICENSE NUMBER: PE69831
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PROFESSIONAL CERTIFICATION/LICENSES



PROFESSIONAL CERTIFICATION/LICENSES

RICK SCOTT, GOVERNOR JONATHAN ZACHEN, SECRETARY

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF PROFESSIONAL GEOLOGISTS

THE PROFESSIONAL GEOLOGIST HEREIN IS LICENSED UNDER THE
PROVISIONS OF CHAPTER 492, FLORIDA STATUTES

HAYS, MICHELLE RENAE
5324 NW 80TH AVENUE
GAINESVILLE FL 32653

LICENSE NUMBER: PG2676
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Ron DeSantis, Governor Halsey Behears, Secretary

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ROSARIO, ROBERTO ARMANDO
2231 NW 54TH TERRACE
GAINESVILLE FL 32605

LICENSE NUMBER: PE72478
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SAWYER, CAROL G.
610 NW 89TH STREET
GAINESVILLE FL 32607

LICENSE NUMBER: PES5214
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BOARD OF PROFESSIONAL ENGINEERS

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MYHRE, BRUCE ERNEST
1416 NW 34TH STREET
GAINESVILLE FL 32605

LICENSE NUMBER: PE50634
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DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
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NICKEL, WALTER ALBERT
1007 NW 87TH WAY
GAINESVILLE FL 32606

LICENSE NUMBER: PE68638
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Ron DeSantis, Governor Halsey Behears, Secretary

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF PROFESSIONAL ENGINEERS

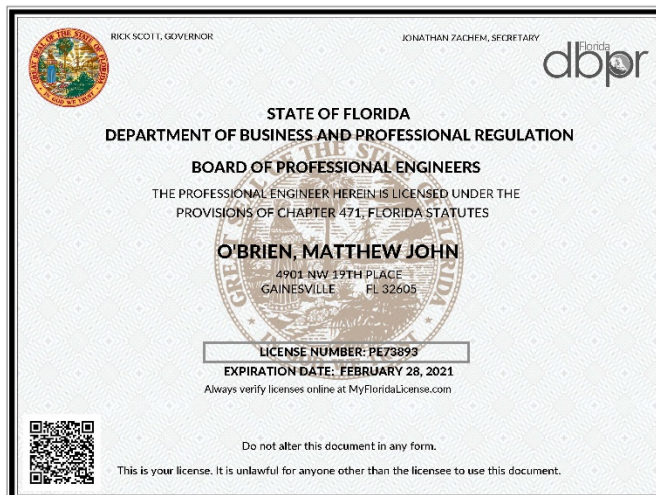
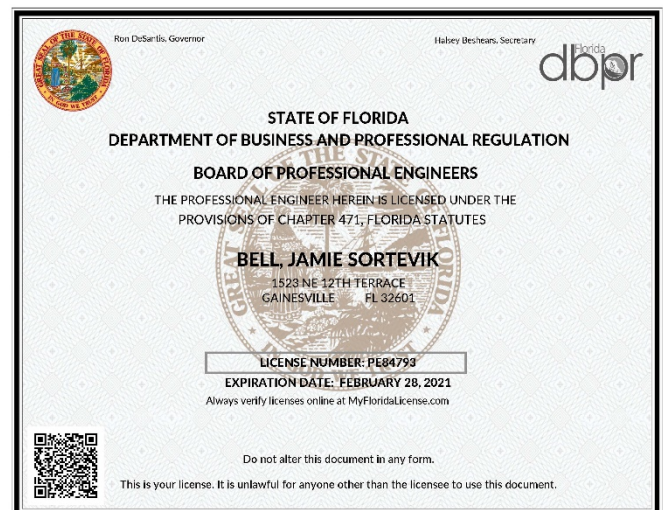
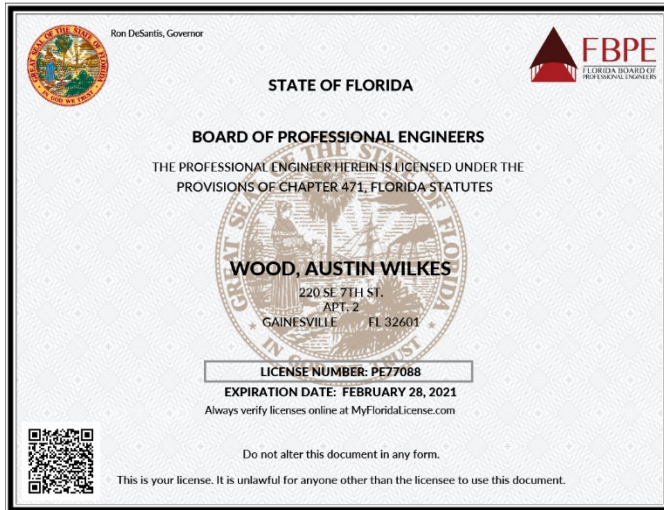
THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE
PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

GOODDEN, AMY LIANE
PO BOX 141224
GAINESVILLE FL 32614

LICENSE NUMBER: PE60097
EXPIRATION DATE: FEBRUARY 28, 2021
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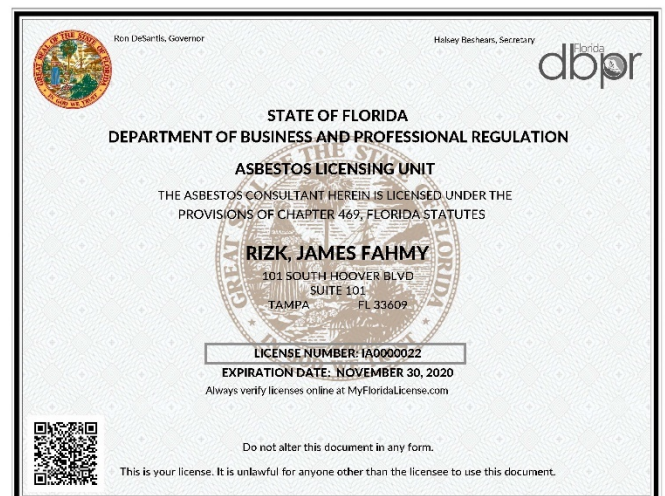
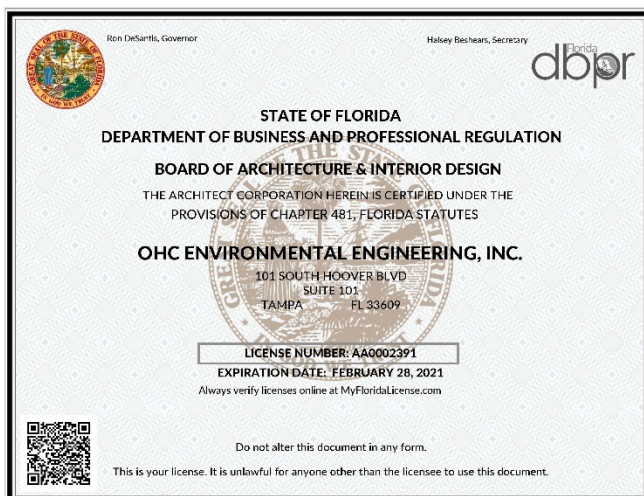
PROFESSIONAL CERTIFICATION/LICENSES



PROFESSIONAL CERTIFICATION/LICENSES

OHC ENVIRONMENTAL ENGINEERING


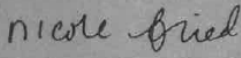
2019 FLORIDA PROFIT CORPORATION ANNUAL REPORT		FILED	
DOCUMENT# G53568		Jan 31, 2019	
Entity Name: OHC ENVIRONMENTAL ENGINEERING, INC.		Secretary of State	
Current Principal Place of Business:		6820754717CC	
101 S. HOOVER BLVD, SUITE 101 TAMPA, FL 33609			
Current Mailing Address:			
101 S. HOOVER BLVD, SUITE 101 TAMPA, FL 33609 US			
FEI Number: 59-2314222		Certificate of Status Desired: No	
Name and Address of Current Registered Agent:			
RIZK, JAMES FPRES, 101 S. HOOVER BLVD, SUITE 101 TAMPA, FL 33609 US			
<small>The above named entity submits this statement for the purpose of changing its registered office or registered agent, or both, in the State of Florida.</small>			
SIGNATURE:			
Electronic Signature of Registered Agent		Date	
Officer/Director Detail :			
Title	PD	Title	V
Name	RIZK, JAMES FPRES	Name	LAWN, MICHAEL AVP
Address	20228 GULF BLVD	Address	3043 BRAELOCH CIRCLE W
City-State-Zip:	INDIAN SHORES FL 34635	City-State-Zip:	CLEARWATER FL 33761
Title	OPERATIONS MANAGER		
Name	JONES, CRISTINA		
Address	101 S. HOOVER BLVD, SUITE 101		
City-State-Zip:	TAMPA FL 33609		
<small>I hereby certify that the information indicated on this report or supplemental report is true and accurate and that my electronic signature shall have the same legal effect as if made under oath; that I am an officer or director of the corporation or the receiver or trustee empowered to execute this report as required by Chapter 607, Florida Statutes; and that my name appears above, or on an attachment with all other like empowered.</small>			
SIGNATURE: JAMES RIZK		PRESIDENT	01/31/2019
Electronic Signature of Signing Officer/Director Detail		Date	



PROFESSIONAL CERTIFICATION/LICENSES

DEREN LAND SURVEYING

2019 FLORIDA LIMITED LIABILITY COMPANY ANNUAL REPORT		FILED	
DOCUMENT# L12000141246		Feb 07, 2019	
Entity Name: DEREN LAND SURVEYING, LLC		Secretary of State	
Current Principal Place of Business:		4061789698CC	
4605 NW 6TH STREET UNIT H GAINESVILLE, FL 32609			
Current Mailing Address:			
4605 NW 6TH STREET UNIT H GAINESVILLE, FL 32609 US			
FEI Number: 46-1347842	Certificate of Status Desired: No		
Name and Address of Current Registered Agent:			
DEREN, DAVID M 4605 NW 6TH STREET UNIT H GAINESVILLE, FL 32609 US			
<small>The above named entity submits this statement for the purpose of changing its registered office or registered agent, or both, in the State of Florida.</small>			
SIGNATURE:			
_____ Electronic Signature of Registered Agent		_____ Date	
Authorized Person(s) Detail :			
Title	MGRM	Title	MGR
Name	DEREN, DAVID M	Name	DEREN, DAVID
Address	4605 NW 6TH STREET UNIT H	Address	4605 NW 6TH STREET UNIT H
City-State-Zip:	GAINESVILLE FL 32609	City-State-Zip:	GAINESVILLE FL 32609
<small>I hereby certify that the information indicated on this report or supplemental report is true and accurate and that my electronic signature shall have the same legal effect as if made under oath, that I am a managing member or manager of the limited liability company or the receiver or trustee empowered to execute this report as required by Chapter 605, Florida Statutes; and that my name appears above, or on an attachment with all other like empowered.</small>			
SIGNATURE: DAVID DEREN		MGR	02/07/2019
_____ Electronic Signature of Signing Authorized Person(s) Detail		_____ Date	

	Florida Department of Agriculture and Consumer Services Division of Consumer Services Board of Professional Surveyors and Mappers 2005 Apalachee Pkway Tallahassee, Florida 32399-6500	License No.: LB7996 Expiration Date: February 28, 2021
Professional Surveyor and Mapper Business License Under the provisions of Chapter 472, Florida Statutes		
DEREN LAND SURVEYING, LLC 4605 NW 6TH ST STE H GAINESVILLE, FL 32609-1772		 NICOLE "NIKKI" FRIED COMMISSIONER OF AGRICULTURE
<small>This is to certify that the professional surveyor and mapper whose name and address are shown above is licensed as required by Chapter 472, Florida Statutes.</small>		

PROFESSIONAL CERTIFICATION/LICENSES

GSE ENGINEERING & CONSULTING

State of Florida Department of State

I certify from the records of this office that GSE ENGINEERING & CONSULTING, INC. is a corporation organized under the laws of the State of Florida, filed on February 27, 2007.

The document number of this corporation is P07000025701.

I further certify that said corporation has paid all fees due this office through December 31, 2019, that its most recent annual report/uniform business report was filed on January 28, 2019, and that its status is active.

I further certify that said corporation has not filed Articles of Dissolution.

*Given under my hand and the
Great Seal of the State of Florida
at Tallahassee, the Capital, this
the Twenty-eighth day of January,
2019*



Jennifer Kennedy
Secretary of State

Tracking Number: 0156697575CC

To authenticate this certificate, visit the following site, enter this number, and then follow the instructions displayed.

<https://services.sunbiz.org/Filings/CertificateOfStatus/CertificateAuthentication>

Ron DeSantis, Governor
Haley Beahm, Secretary

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF PROFESSIONAL ENGINEERS
THE ENGINEERING BUSINESS HEREIN IS AUTHORIZED UNDER THE
PROVISIONS OF CHAPTER 471, FLORIDA STATUTES
GSE ENGINEERING & CONSULTING, INC.
5590 SW 64TH STREET, SUITE B
GAINESVILLE FL 32608






LICENSE NUMBER: CA27430
EXPIRATION DATE: FEBRUARY 28, 2021
Always verify licenses online at MyFloridaLicense.com

Do not alter this document in any form.
This is your license. It is unlawful for anyone other than the licensee to use this document.

PROFESSIONAL CERTIFICATION/LICENSES

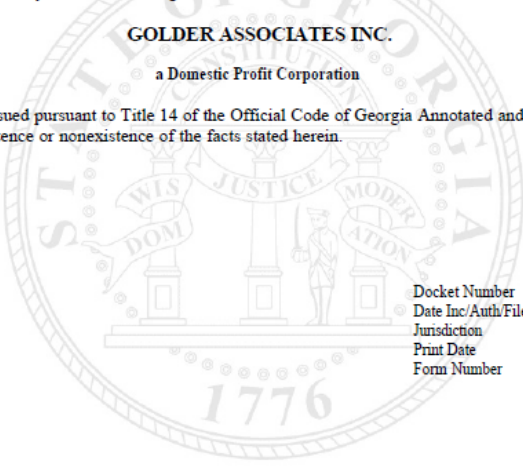


ENVIRONMENTAL CONSULTING LABORATORIES, INC. – ENCO

2019 FLORIDA PROFIT CORPORATION ANNUAL REPORT		FILED
DOCUMENT# P98000023911		Feb 15, 2019
Entity Name: ENVIRONMENTAL CONSERVATION LABORATORIES, INC.		Secretary of State
Current Principal Place of Business: 10775 CENTRAL PORT DR ORLANDO, FL 32824		1927066768CC
Current Mailing Address: 10775 CENTRAL PORT DR ORLANDO, FL 32824		
FEI Number: 59-3497702	Certificate of Status Desired: No	
Name and Address of Current Registered Agent: F & L CORP. ONE INDEPENDENT DRIVE SUITE 1300 JACKSONVILLE, FL 32202 US		
<small>The above named entity submits this statement for the purpose of changing its registered office or registered agent, or both, in the State of Florida.</small>		
SIGNATURE:		
Electronic Signature of Registered Agent		Date
Officer/Director Detail :		
Title DIR	Title VT	
Name RICHARDS, JEFFREY K	Name GREGORY, JAMES	
Address 10775 CENTRAL PORT DR	Address 10775 CENTRAL PORT DR	
City-State-Zip: ORLANDO FL 32824	City-State-Zip: ORLANDO FL 32824	
Title PRES		
Name RANDALL, GRUBBS		
Address 10775 CENTRAL PORT DR		
City-State-Zip: ORLANDO FL 32824		
<small>I hereby certify that the information indicated on this report or supplemental report is true and accurate and that my electronic signature shall have the same legal effect as if made under oath; that I am an officer or director of the corporation or the receiver or trustee empowered to execute this report as required by Chapter 607, Florida Statutes; and that my name appears above, or on an attachment with all other like empowered.</small>		
SIGNATURE: RANDALL C GRUBBS	PRESIDENT	02/15/2019
Electronic Signature of Signing Officer/Director Detail		Date

		
Department of Health, Bureau of Public Health Laboratories		
This is to certify that		
E83182		
ENVIRONMENTAL CONSERVATION LABORATORIES, INC. (ENCO) -		
ORLANDO		
10775 CENTRAL PORT DRIVE		
ORLANDO, FL 32824-7009		
has complied with Florida Administrative Code 64E-1,		
for the examination of environmental samples in the following categories		
DRINKING WATER - MICROBIOLOGY, DRINKING WATER - PRIMARY INORGANIC CONTAMINANTS, DRINKING WATER - SECONDARY INORGANIC CONTAMINANTS, NON-POTABLE WATER - EXTRACTABLE ORGANICS, NON-POTABLE WATER - GENERAL CHEMISTRY, NON-POTABLE WATER - METALS, NON-POTABLE WATER - MICROBIOLOGY, NON-POTABLE WATER - PESTICIDES/HERBICIDES/PCBS, NON-POTABLE WATER - VOLATILE ORGANICS, SOLID AND CHEMICAL MATERIALS - EXTRACTABLE ORGANICS, SOLID AND CHEMICAL MATERIALS - GENERAL CHEMISTRY, SOLID AND CHEMICAL MATERIALS - METALS, SOLID AND CHEMICAL MATERIALS - PESTICIDES/HERBICIDES/PCBS, SOLID AND CHEMICAL MATERIALS - VOLATILE ORGANICS		
<small>Continued certification is contingent upon successful on-going compliance with the NELAP Standards and FAC Rule 64E-1 regulations. Specific methods and analytes certified are cited on the Laboratory Scope of Accreditation for this laboratory and are on file at the Bureau of Public Health Laboratories, P. O. Box 210, Jacksonville, Florida 32231. Clients and customers are urged to verify with this agency the laboratory's certification status in Florida for particular methods and analytes.</small>		
Date Issued: July 01, 2018 Expiration Date: June 30, 2019		
	 Petty A. Lewandowski, MBA, MT(ASCP) Chief Bureau of Public Health Laboratories DH Form 1609, 7/04 NON-TRANSFERABLE E83182 44-07/01/2018 Supersedes all previously issued certificates	

PROFESSIONAL CERTIFICATION/LICENSES

GOLDER ASSCIATES, INC.

STATE OF GEORGIA		Control Number : J419230
Secretary of State Corporations Division 313 West Tower 2 Martin Luther King, Jr. Dr. Atlanta, Georgia 30334-1530		
CERTIFICATE OF CERTIFIED COPY		
<p>I, Brian P. Kemp, the Secretary of State of the State of Georgia, do hereby certify under the seal of my office that the attached documents are true and correct copies of documents filed with the Corporations Division of the Office of the Secretary of State of Georgia under the name of</p>		
GOLDER ASSOCIATES INC. a Domestic Profit Corporation		
<p>This certificate is issued pursuant to Title 14 of the Official Code of Georgia Annotated and is prima-facie evidence of the existence or nonexistence of the facts stated herein.</p>		
		<p>Docket Number :1095095 Date Inc/Auth/Filed :04/29/1980 Jurisdiction :Georgia Print Date :02/01/2017 Form Number :215</p>
	 Brian P. Kemp Secretary of State	



800.237.1053 | JONESEDMUNDS.COM

APR 24 '19 PM 1:14

JonesEdmunds

730 NE Waldo Road, Gainesville, FL 32641

**20-171: Annual Environmental
Consulting Services**

**Alachua County Division of Purchasing,
3rd Floor
County Administration Building
12 SE 1st Street
Gainesville, Florida 32601-6983
Opening Time: 2:00PM
Opening Date: April 24, 2019**