



# City of Key West Environmental Engineering Services

**RFQ No. 20-002**

**Due:  
Wednesday, January 8, 2020  
3:00 pm EST**



**Submitted to:  
City Clerk  
City of Key West, Florida  
1300 White Street  
Key West, Florida 33040**



## Company Profile

**E Sciences** is an engineering, environmental, and ecological consulting firm with offices in Fort Lauderdale, Miami, Orlando, DeLand and Tampa. The firm provides professional consulting services throughout Florida and the United States. The firm opened its doors in 2000 bringing together a team of professional and technical staff members with a long history of successful projects throughout the southeast. Our driving fundamental philosophy is one of responsive consulting expertise that creates value for our clients. We believe it is imperative to provide our clients with the highest standard of quality and reliable services. We truly believe customer service is our top priority. Our firm's first agency client, the Florida Department of Transportation (FDOT), and our first municipal client, Islamorada, Village of Islands continue to be some of our most valued clients. Both clients have renewed our contracts and they are active to this day. We can state with confidence that our clients recognize the superior consulting value we provide and validate this with repeat patronage. We provide maintain several environmental, engineering and ecological continuing services prime contracts for multiple counties, municipalities, and agencies including the following Southeast Florida cities:

- City of Marathon Professional Engineering Services
- Islamorada Consulting Engineering Services (Second term)
- City of Homestead Architectural-Engineering Services
- City of Miami Environmental Engineering Services
- City of Miami Beach Continuing Environmental and Coastal Engineering Services
- City of North Miami Beach Continuing Professional Services (Second term)
- City of North Miami Environmental Engineering (Second term)
- City of Fort Lauderdale General Environmental Engineering (Second Term)
- City of Pompano Beach & Community Redevelopment Agency Environmental Engineering (second term)

Working with City staff is more than a job or a single project, it is a commitment to the community and a willingness to provide more than expected. We believe it is important to not only be an outstanding consultant, but to be a partner. As your partner, we are committed to keeping City staff informed on changing regulatory issues and how they may affect policy and the ability to manage this one of a kind island community environment. The Florida Keys have a rare and fragile environment, as well as a rich and unique history, both of which require sustainable solutions through innovative planning and design. E Sciences' prime philosophy is one that promotes quality development through sustainable design. We recognize the importance of being stewards of the land in order to preserve these precious resources for future generations.

E Sciences is not a mega firm, but rather, a specialized consultant dealing in all aspects of environmental engineering services. We do not have layers of bureaucracy through which you need to maneuver – our staff are responsive and accessible. On the other hand, we understand that at times our clients may need other services than we offer in house. In these cases, we extend ourselves as the prime consultant bringing the necessary sub-consulting services under our contract, thereby giving our clients the same point of contact. Our team has the ability to respond quickly and cost effectively to projects of varying size. Between our local resources and our offices in Miami and Fort Lauderdale we are readily available and can respond quickly to any City request.

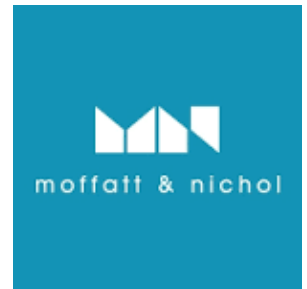
We have assembled what we believe to be the best consultant team to provide the services requested in the RFQ. A strong advantage to our team is that we have worked together for many years because we truly utilize our local consultants, taking advantage of their institutional knowledge and keeping local dollars local. Our proven leadership and management capabilities allow us to direct team members that are in different geographic locales in a seamless and efficient manner. From the Overseas Heritage Trail to the City Hall project in Key West, our team members have had successful and positive experiences working in the Florida Keys.

## Team Members and Qualifications

**Perez Engineering & Development, Inc. (Perez)** provides professional civil engineering services in the public, industrial, military, and private sectors. Based in Key West, Florida, their staff has a proven record in successfully managing and completing complex multi-discipline projects throughout Florida and the Caribbean. The firm's approach to project planning and management controls both capital costs and engineering fees and demonstrates an ability to meet both schedule and budget requirements. The firm's experience includes the management and technical preparation of master plans, construction documents, permit submittals, and construction services for a wide variety of development activity. Perez Engineering and Development has been providing professional engineering services from their Key West office since 1999. As part of the E Sciences team, Perez Engineering & Development, Inc. will be providing additional local knowledge, and responsive on-site project representation. E Sciences and Perez have collaborated on Keys projects for many years.



**Moffatt & Nichol, Inc. (M&N)** is a global infrastructure advisory firm working from 42 offices and seven countries. They provide practical solutions to clients in the marine terminal, transportation, energy, environmental, federal, and urban development markets around the world. They are a multidiscipline professional services firm with specialized expertise in coastal, structural and civil engineering; environmental sciences; economics analysis; inspection & rehabilitation; and program management solutions.



As part of the E Sciences team, M&N will provide comprehensive coastal engineering, design, surveying and permitting support services. They will also provide services related to contract specifications, preparing bid and proposal documents, assisting Key West with technical review and ranking to attain qualified contractors, construction administration and owner representation services on coastal-related projects including docks, marinas, seawalls, bridges, erosion control and beach design/re-nourishment. E Sciences and M&N personnel have collaborated professionally for many years and are currently working together on two projects for the City of Miami Beach.

**EBS Engineering, Inc. (EBS)** was founded in 1994 to provide high quality and cost-effective engineering and environmental services to benefit clients with time and budget-driven projects. EBS is a growing minority engineering firm with certification as Minority and Disadvantaged Business Enterprise. EBS' staff is comprised of experienced and qualified professionals who have the full understanding of current federal, state and local laws and regulations, in their individual specialties. They bring a specific wealth of knowledge of industrial hygiene services and the required licensure to provide these services. Since their inception, they have successfully completed over 500 projects ranging in size/value from a few thousand dollars to over \$2,000,000. They have also successfully completed some of the most challenging and complex environmental projects in the state of Florida. They maintain a high record of repeat business from clients over the years that serve as a testament to their high-performance standards, technical excellence and professionalism. As part of the E Sciences team, EBS will be providing industrial hygiene services. E Sciences and EBS have teamed together and personnel in both our firms have worked together for many years. In fact, Ms. Nadia Locke, PE, LEED AP our proposed project manager, and Mr. Essien, of EBS, shared an office when they were staff engineers (many years ago).



E Sciences will also subcontract contractors, laboratories, drillers, surveyors, etc. as necessary to fulfill the project needs.

## Demonstration of Key Personnel Expertise

E Sciences has assembled a team of professionals who have the expertise to provide the skills and experience necessary to assist the City in reaching its goals. The following includes professional highlights illustrating the quality and depth of experience of select key staff.

### **Nadia Locke, PE, LEED AP, Contract Manager**

**Education:** B.S. Materials Science and Engineering, University of Florida, 1988

**Professional Licenses / Certifications:** Professional Engineer: FL-58676; LEED Accredited Professional Certified FDEP Stormwater, Erosion and Sedimentation Control Inspector and Instructor; NAUI / PADI Advanced Open Water Diver, LEED AP Neighborhood Development, OSHA 40 Hour Hazardous Waste Operations and Emergency Response; OSHA 8-Hour Site Supervisor

**Years of Experience:** 30+

**Location:** Fort Lauderdale

**Capacity to Serve the City:** 50%

Ms. Locke has been providing environmental and engineering consulting services for over 30 years in South Florida. During her career, she has worked in many facets of environmental consulting including environmental audits, site assessments and remediation, stormwater and sanitary sewer consulting, environmental permitting, climate change impact evaluation, grant assistance, mitigation design, and community involvement.

**Municipal Environmental and Coastal Project Management Experience.** Ms. Locke's years of experience managing contracts, projects and staff have proven to be successful on other related contracts similar to the services requested by the City under RFQ No. 20-002. Her attention to each project's specific needs, and budgetary and schedule constraints have been part of the reason for E Sciences' success on many municipal contracts. She is focused on exceeding her client's needs and delivers our services honestly and openly. Regular communications with City staff assist in ensuring that our project scope will satisfy the City's needs. When she finds that services are not necessary and the project reveals opportunities to deliver a project under budget, she proudly incorporates those concepts into the project, with the support of the firm. Ms. Locke manages similar environmental and engineering consulting services contracts for the following entities, all of which were awarded at least twice to E Sciences:

- City of Miami Beach Environmental/Coastal Engineering Services Contract
- Islamorada, Village of Islands Consulting Engineering Services
- City of Fort Lauderdale Continuing Contract for General Environmental Engineering Services
- Treasure Coast Regional Planning Council Brownfields Assessment and Remediation Services
- Pompano Beach Community Redevelopment Agency (CRA) Continuing Environmental Engineering

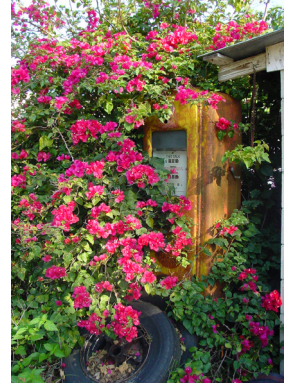
Ms. Locke still has plenty of capacity to provide a high level of service on this contract as well. She is supported by a talented group of staff and subconsultants who can efficiently execute the projects leaving her to dedicate her time to providing the higher-level client service and project management.

**Local Experience.** Ms. Locke has been working in the Florida Keys for over 20 years. Projects that she completed include the Truman Waterfront Park, an asbestos survey at the Truman Annex, multiple Phase I and II Environmental Site Assessments (ESAs) in Key West, a confidential arsenic study in Monroe County, and the wastewater treatment alternatives analysis and development of a Request for Proposal for hiring the wastewater operator for Islamorada. She continues to provide ongoing support to Islamorada by reviewing stormwater management plans for future site development.



**Recognized Industry Expert.** Ms. Locke is highly qualified to serve the City as contract manager. Beyond her knowledge and experience with the scope of services, Ms. Locke's 30 years of working in South Florida have resulted in her involvement in numerous high-profile projects in South Florida including the following:

- Truman Waterfront Park
- City of Miami Beach Groundwater Elevation Sea Level Rise Study and Mooring Field Feasibility Study
- Key Largo-Islamorada Wastewater Feasibility Study
- Homestead Air Reserve Base Site Assessment and Risk Assessment
- American Airlines Arena Site Assessment and Remediation Oversight
- Charles Deering Estate Lead Paint and Asbestos Removal
- Vizcaya Asbestos Removal and Canal Restoration
- Miami International Airport Assessment and Remediation and Cost Estimates
- Wingate Landfill Superfund Site-Remediation Closure Cost Estimates



As a testament to Ms. Locke's reputation as an expert, we note that she has provided litigation support regarding environmental issues related to site assessment and remediation as well as environmental permitting. She has served in this capacity for the FDOT, Miami-Dade County Aviation Department, Barry University and private/public interest firms. Ms. Locke provided litigation support for an extremely contentious site assessment and remediation project on the West Coast of Florida. This project was the impetus for the changes to the Florida Statutes requiring off-site notification of contamination. She is a leader in evolving environmental issues and regulations, and regularly presents at annual statewide conferences such as the Florida Brownfields Association Annual Conference, Florida Chamber Growth Management Conference and the Florida Bar's Environmental Law and Land Use Section Annual Conference.

### **Maria Paituvi, PE, Senior Engineer**

**Education:** B.S., Environmental Engineering Sciences, University of Florida, 2005

**Professional Licenses / Certifications:** Florida Professional Engineer; License No. 73008; OSHA 40 Hour Hazardous Waste Operations and Emergency Response; Certified FDEP Stormwater, Erosion and Sedimentation Control Inspector No. 27077; OSHA 8-Hour Site Supervisor

**Years of Experience:** 13

**Location:** Fort Lauderdale

**Capacity to Serve the City:** 50%

Ms. Paituvi has over 13 years of experience in environmental consulting in South Florida. Her technical experience includes environmental assessment and remediation of contaminated sites, and she is experienced in permitting and National Environmental Policy Act (NEPA) documentation. Ms. Paituvi has actively collaborated on site investigations, environmental assessments, and remedial action planning and design. She specializes in assessing and managing contaminated site risks as part of redevelopment projects and works with property owners to minimize the impact that contamination has on design and construction. Ms. Paituvi is also very well versed in implementation of remedial actions that are cost effective and minimally disruptive to communities and routine site activities. She has been very successful in working with regulatory agencies to obtain site closures by managing risks instead of implementing costly remediation. Ms. Paituvi is also experienced in regulatory compliance and preparing Spill Prevention, Control, and Countermeasure (SPCC) plans and tank closure assessments. As part of her project management involvement, she is responsible for cost estimating and tracking, task scheduling and timely completion of project events. From the various and numerous projects completed, she has gained practical experience in environmental field investigation, monitoring and sampling tasks, construction planning and oversight, remediation system installation and operation, and regulatory compliance. Ms. Paituvi regularly works with several of our municipal clients including Islamorada, and the Cities of Miami Beach, North Miami Beach and Fort Lauderdale, and the Pompano Beach CRA.

**Patricia L. Gertenbach, PG, Quality Assurance Manager**

**Education:** B.S., Geology, West Georgia College, 1991, Magna Cum Laude

**Professional Licenses / Certifications:** Professional Geologist Florida No. 2037, Georgia No. PG001444; PADI – Advanced Open Water Diver; Certified FDEP Stormwater, Erosion and Sedimentation Control Inspector and Instructor, LEED Green Associate, OSHA 40 Hour Hazardous Waste Operations and Emergency Response, OSHA 8-Hour Site Supervisor

**Years of Experience:** 28

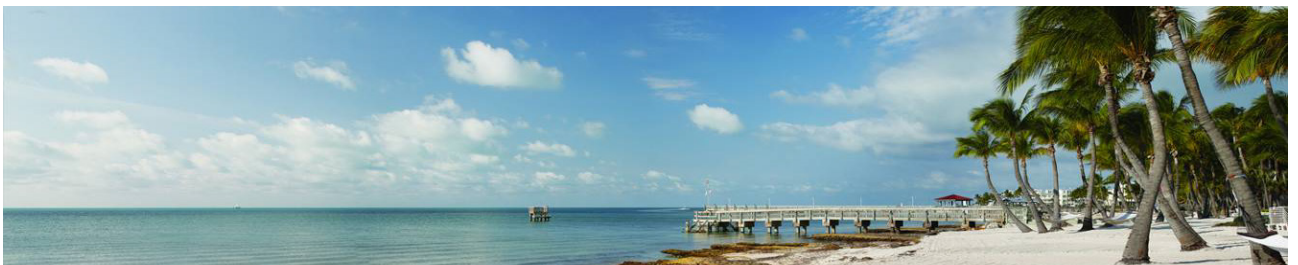
**Location:** Fort Lauderdale

**Capacity to Serve the City:** 25%

Ms. Gertenbach, along with Ms. Locke, opened E Sciences' Fort Lauderdale office in 2002. Although she is an associate of the firm, Ms. Gertenbach spends the majority of her time on the technical and management aspects of projects. Her professional experience began by conducting site assessment/remediation projects that included hydrogeological investigations, monitoring well design and installation oversight, and conducting environmental assessments, sampling, analysis and monitoring for Department of Defense facilities, including several army ammunitions plants and air force bases. Since then, her portfolio of projects and clients have given her the opportunity to diversify her knowledge into wetlands, water quality, environmental permitting and National Pollutant Discharge Elimination System stormwater program management in addition to assessment and remediation. Ms. Gertenbach is also well-versed in providing environmental documentation for LAP and other projects [e.g., FDOT, Federal Emergency Management Agency (FEMA)] in accordance with NEPA.

Ms. Gertenbach is knowledgeable of the Keys and Key West both professionally and personally, having been visiting Key West since the 1970s. She is familiar with the unique flora, fauna, marine community, geology and physical environment of Key West. Ms. Gertenbach has managed and/or provided technical support and oversight on Keys projects of all sizes including: the Monroe County Canal Inventory and Assessment, which included creating a GIS layer of all the canals in the Keys; providing permitting, NEPA and environmental support to the Florida Department of Environmental Protection (FDEP) for the design and construction of the Florida Keys Overseas Heritage Trail; and analyzing limestone rocks for Mote Marine. She has provided Quality Assurance / Quality Control (QA/QC) on E Sciences' work (as a subconsultant) for the Truman Annex project. Ms. Gertenbach has extensive experience in the work elements of this contract including permitting, contamination assessments and remediation, real estate development support services, and underground storage tank (UST) support services. Throughout her career, Ms. Gertenbach has focused customer service and providing quality driven, technically sound solutions that meet the client's needs in an efficient and cost-effective manner.

Ms. Gertenbach's knowledge of NEPA and FDOT was utilized on several E Sciences projects for the City of Fort Lauderdale and the Pompano Beach CRA: Level II testing for Sistrunk Boulevard, NEPA re-evaluation and Contamination Screening Evaluation Report update for NW 7th Avenue and 9th Avenue Connector, Martin Luther King Boulevard Educational Corridor and asbestos surveys for three low level bridge replacements. Because these projects are partially funded by the Federal Highway Administration through the FDOT, Ms. Gertenbach provided insight into FDOT's perspective to assist the City/CRA in satisfying the environmental commitments necessary to achieve funding.



**Allen E. Perez, PE, President  
Perez Engineering & Development, Inc.**

**Education:** M.S., Civil Engineering, University of South Florida, 1995

**Professional Licenses / Certifications:** Florida Professional Engineer License No. 51468

**Years of Experience:** 24+

**Location:** Key West

**Capacity to Serve the City:** 25%

Mr. Perez has more than 24 years of experience in engineering and project management. His experience includes the management and technical preparation of master plans, construction documents, permit submittals, and construction services for a wide variety of development activity. Mr. Perez has been providing professional engineering services, from his Key West office, for projects throughout the Florida Keys for 19 years. He has assisted the City with many projects under Perez's contracts for providing general stormwater and wastewater engineering services and professional engineering consulting services. He has also provided services to Monroe County through his General Airport Consultant contract and agreement for Architectural/Engineering Services for small projects.

**Benjamin S. Essien, PE, Principal Engineer  
EBS Engineering, Inc.**

**Education:** BS, Mechanical Engineering, University of Benin, Benin City, Nigeria 1980

**Professional Licenses / Certifications:** Florida Professional Engineer; License No. 47176; Florida Licensed Asbestos Consultant License No. EA0000079 , EPA Asbestos Building Inspector & Management Planner; EPA Asbestos Contractor/Supervisor; EPA Lead-based Paint Risk Assessor & Inspector; AHERA Asbestos Project Designer; EPA Radon Measurement Specialist; Florida Licensed Mold Assessor License No. MRSA115; OSHA 40 Hour Hazardous Waste Operations and Emergency Response; OSHA 8-Hour Site Supervisor

**Years of Experience:** 37

**Location:** Miami

**Capacity to Serve the City:** 40%

Mr. Essien has over 37 years of experience of engineering design, project management, environmental consulting and construction. He has served as project manager and/or principal-in-charge for numerous projects including design, construction and inspection of major industrial and public facilities. He is a licensed Florida asbestos consultant, certified lead-based paint risk assessor and radon measurement specialist with extensive experience in handling all asbestos, lead-based paint, radon and other indoor air quality testing/consulting issues and remediation. He has a wealth of experience in conducting industrial hygiene services in south Florida. He has conducted numerous asbestos surveys and abatements in high profile and complex locations such as the Miami International Airport. Mr. Essien has managed similar contracts for cities (such as the City of Miami) where he and EBS have conducted industrial hygiene related work as well as Phase I and Phase II ESAs and other contamination related services.

**Timothy K. Blankenship, PE, Senior Coastal Engineer  
Moffat and Nichol**

**Education:** M.S, Coastal Engineering, Old Dominion University, Norfolk, Virginia, 1994; B.S., Civil Engineering, Old Dominion University, Norfolk, Virginia, 1992

**Professional Licenses / Certifications:** Florida Professional Engineer; License No. 55910

**Years of Experience:** 25

**Location:** Miami

**Capacity to Serve the City:** 20%

Mr. Blankenship has 25 years of experience in all facets of coastal engineering including the planning, design and monitoring of shore protection projects. Projects have included beach nourishment and coastal structures such as jetties, breakwaters and groynes. He has conducted numerical modeling studies of coastal processes along shorelines

and design of marinas and harbors. He has also planned and conducted field investigations consisting of hydrographic surveys, oceanographic data collection, and underwater inspections throughout the U.S. and internationally.

Mr. Blankenship has specific coastal process experience compiling field data sets and utilizing GIS spatial analysis tools to evaluate sediment budgets in littoral cells between inlets. He has also planned and design inlet improvements that have included coastal structures and dredging. Mr. Blankenship has extensive design and permitting experience with beach nourishment projects, and he has managed marine works projects involving all types of marine construction equipment including cutterhead, hopper and mechanical dredge plants. He has also designed mitigation for unavoidable impacts to marine resources, and these mitigation projects have included dredge hole fill projects for seagrass mitigation and artificial reef projects for nearshore hardbottom impacts.

Mr. Blankenship's Keys-specific experience includes shoreline improvement feasibility studies (with hydrographic surveys and aerial photogrammetric mapping) for Curry Hammock, Long Key, Bahia Honda, and Ft. Zachary Taylor State Parks; sand evaluation study for beach nourishment included in the 1988 FDEP Strategic Management Plan for the Florida Keys; coastal engineering design and permitting for breakwaters, jetties and beach fill for shoreline protection at Fort Zachary Taylor State Park; coastal and structural design of the beach pier at Reach Resort in Key West; and an engineering assessment/surveys and emergency environmental permitting for shoreline stabilization and marine structures after hurricane damage for Sunset Key in Key West.

## Specific Relevant Experience

E Sciences provides a full range of environmental engineering services to assist municipalities with identifying and managing environmental risks. Our strategies focus on using solid technical approaches to assess the existing conditions, anticipating future potential risks, understanding the City's long-term goals and developing a plan to provide the right level of protection and regulatory compliance, while considering cost and schedule constraints.

We have extensive experience investigating surface and subsurface environments, and are very familiar with geological, hydrological and hydrogeological systems in Monroe County. Our environmental staff and that of our team includes registered professional engineers and geologists, and degreed scientists whose expertise provide a comprehensive combined set of skills that will support the City's goals through and even beyond the planning, design and construction phases of projects. Our team has the experience and expertise to provide all aspects of full-scale engineering, design, permit preparation, bidding, contract and specification documents development, and assistance with contractor selection. During implementation, we have the expertise and experience to provide construction administration, owner representation and permit modifications as the needs arise during rehabilitation/retrofit or new construction.

The following highlights some of E Sciences' specific relevant project experience. This experience reflects our knowledge of working in the Keys, and for municipalities:

### TRUMAN WATERFRONT PARK

E Sciences and Perez were engaged as subconsultants to provide civil and environmental engineering support services for the Truman Waterfront Upland Parcels (the Site). The City of Key West Naval Properties Local Redevelopment Agency (LRA) was engaged in the acquisition, planning and permitting of the redevelopment of a portion of the former U.S. Navy Truman Waterfront base since 1995 as allowed by the Federal Government's Base Realignment and Closure process. The LRA sought to develop a portion of surplus Navy property known as the Truman Waterfront Upland Parcels. The overall project consisted of designing and implementing a thematically integrated waterfront park consistent with the character of a surrounding historic community. The Site encompasses multiple properties over an approximate 23-acre area adjacent to the Florida Bay waters.





E Sciences reviewed the contamination assessment and remediation history of these parcels to ascertain and assist the City in understanding existing and proposed land use restrictions to determine the requirements for site development and use as a public park. E Sciences developed a soil and groundwater management plan to address contamination issues during construction and to communicate the engineering controls that will be required to be installed and maintained. This process involved coordination and approval by the City, the Navy and FDEP. E Sciences assisted with the bidding process, by presenting the environmental conditions at the pre-bid meeting and was engaged in answering requests for

information from contractors during the bidding process. During construction E Sciences was consulted when contamination issues or questions arose. The park was constructed using the provisions of the soil management plan. Perez conducted civil engineering design services for the park.

- Client/Contact Information:** Bermello Ajamil & Partners, Randy Hollingworth  
2601 South Bayshore Drive, 10th Floor, Miami, Florida 33133  
Tel. (726) 470-3898
- Project Dates:** 2014 – 2016
- Key Personnel:** Allen Perez, PE, Nadia Locke, PE, Maria Paituvi, PE, Justin Freedman, MS
- Contract Amount:** \$140,000
- Design Service Fee:** \$140,000
- Contractor:** Charley Toppino & Sons, Inc.
- Construction Cost:** \$27M

**ISLAMORADA, VILLAGE OF ISLANDS ENVIRONMENTAL SERVICES**

E Sciences has provided a variety of environmental engineering consulting services for Islamorada, Village of Islands, (the Village or Islamorada) including the following:

**Interim Public Works Director:** During transition between Village Public Works Directors, E Sciences was requested to fulfill the duties of the director on an interim basis. E Sciences' role involved managing and overseeing multiple functions related to public works projects, including stormwater, wastewater and other capital improvement projects.



**Stormwater Land Development Regulations and Technical Manual:** E Sciences assisted Islamorada in developing land development regulations in regard to stormwater impacts during development/redevelopment within the Village. Services included compiling data related to existing stormwater systems within the Village and developing the language for the regulations. Services also included development of a matrix of alternatives related to the type of designated land use activities, as well as specific design criteria needed for each stormwater treatment facility, and development of a technical manual to assist the applicant in interpreting the regulations and specific examples.

**Stormwater / Drainage Plan Reviews:** E Sciences provides ongoing support by reviewing drainage plans that are submitted for development, redevelopment or modifications to existing developments. E Sciences reviews the stormwater calculations and design to evaluate if the overall stormwater management plan is substantially consistent with the Village's stormwater management regulations and Stormwater Design Criteria Technical Manual. Formal review letters provide the results of our review. If revised plans are submitted based upon our review comments, E Sciences reviews the submittals again to evaluate if the revised plans sufficiently address any noncompliance items. These reviews are often time sensitive and are regularly completed within three to five working days.

**Water Quality Master Plan:** The project included several tasks, the first of which was an Assessment Report that included an inventory of Village residential canals, attributes and classification using the Monroe County Residential Canal and Inventory report. This was supplemented with Village water quality monitoring data and, using this data, a recommendation for suitable canals for the water quality project with the funds available was provided. Once a decision was made regarding the canal and treatment technology, drawings were generated to prepare a bid package and permit applications.



**Phase I ESA Gardenia Parcels:** E Sciences prepared a Phase I ESA for the Village prior to their acquisition of land to be developed for affordable housing.

**Program Management/Plantation Key Wastewater Treatment Facility:** E Sciences provided Engineering Support Services to the Village of Islamorada for the design and construction of the North Plantation Key (NPK) wastewater treatment facility and collection system. The NPK project entailed the construction of a 0.355 MGD-MMADF wastewater treatment facility using a membrane bioreactor activated sludge biological nutrient removal treatment process. The project also includes a vacuum collection system with eight miles of vacuum sewer piping and force main. Construction was accomplished through two design/build contracts. E Sciences responsibilities included the preparation of technical RFPs, participation in the selection committee, contract administration and construction engineering services.



**E Sciences Fees:**

- RFP Phase I Collection System: \$45,000
- RFP Phase II Collection System, Contractor Selection: \$46,000
- CEI and Phase I Plant and Collection System Design Reviews: \$160,000
- CEI Phase II: \$250,000
- Engineering support for grant acceptance, conceptual design work for plant design change to triple capacity, permitting assistance, project management and coordination, design review for new plant design and Phase II Collection System: \$161,350
- O&M RFP, contractor selection, coordination and technical assistance during transition: \$59,000

**Construction Costs:**

- Construction Dates: 2004 – 2008
- Phase I Collection System and 100,000 gpd AADF plant: \$6,046,000
- Reclaimed Water System: \$1,196,000
- Grant-driven plant upsize to 250,000 gpd AADF: \$2,578,920
- Phase II Collection System: \$10,653,477

**Client/Contact Information:** Islamorada, Village of Islands, Peter Frezza or Craig Southern  
86800 Overseas Highway, Islamorada, Florida 33036  
Tel. (305) 664-6400

**Project Dates:** 2003 – Ongoing

**Key Personnel:** Nadia G. Locke, PE; James Orioles, PE, Patricia L. Gertenbach, PG;  
Maria Paituvi, PE; Patrick Shearer, PE

**Contract Amount:** \$1,150,878

**Contractor:** WPC Industrial Contractors, Inc.

### CITY OF MIAMI BEACH ENVIRONMENTAL AND COASTAL ENGINEERING CONTINUING SERVICES

E Sciences was awarded a contract with the City of Miami Beach to conduct environmental / coastal engineering services, including the following projects:



**Miami Beach Convention Center Brownfield:** In preparation for redevelopment of City owned properties to enhance the convention center area, E Sciences conducted a Phase I ESA for parcels adjacent to the Miami Beach Convention Center. These parcels included a parking lot west of the convention center, the 21st Street Community Center and Bandshell north of the convention center and the Fillmore theatre. The Phase I ESA revealed the historic operation of a golf course on the project sites. This finding was identified as a recognized environmental condition based on the potential historical application of herbicides and pesticides on the ground. A Phase II ESA was conducted. Incremental Sampling Methodology (ISM) was implemented in order to evaluate the potential presence of soil impacts and groundwater testing was conducted. ISM results were indicative of the presence of arsenic concentrations above approved naturally occurring concentration criteria specific for Miami Beach. Limited groundwater impacts were detected in one area. E Sciences assisted the City in evaluating a viable development approach to address the onsite impacts. Upon coordination with the County, the City elected to implement a combination of engineering controls and source removal efforts as part of the development plan for the sites. E Sciences is conducting an areawide site assessment and regulatory closure.

**Carl Fisher Seawall Permitting Support:** The Carl Fisher Clubhouse was constructed in 1916 and is the oldest public standing structure in Miami Beach. It is on the National Register of Historic Places and is a locally designated historic structure. As part of the restoration of the Clubhouse, and to protect this historic resource, the City also needed to repair the seawall on Collins Canal, which was severely deteriorated. E Sciences conducted a field assessment with the South Florida Water Management District (SFWMD), performed an impact evaluation and functional assessment of the mangroves that had recruited into the area and acquired an Environmental Resource Permit from SFWMD. Permitting efforts also required coordination with the State Division of Historical Resources and reservation of saltwater mitigation credits from the Everglades Mitigation Bank.

**Sea Level Rise Evaluation:** E Sciences conducted a study of correlations between groundwater elevations, tidal fluctuations and rainfall over a period of twelve months to help the City plan for the effects of sea level rise. To identify areas of potential short- and long-term flooding, we created GIS layers of surface water levels from high quality Light Detection and Ranging (LiDAR) data, groundwater elevations collected, and other research conducted. The critical component of the effort was to identify areas with limited soil storage capacity and areas where sea level rise is expected to further reduce unsaturated soil storage capacity. The LiDAR, field and research data were incorporated into contours to provide a spatial presentation of areas with higher vulnerability for impacts of sea level rise through groundwater. A report outlining our methodology, the results of the study in narrative, charts and graphics, model discussion and recommendations was provided at the completion of the study.

**SPCC Plans:** E Sciences prepared SPCC Plans for 12 facilities throughout Miami Beach. These facilities included pump stations, fire stations, public works yard, Miami Beach Golf Club and the Convention Center. E Sciences' approach for performing the SPCC Plans required under this contract followed the steps outlined in applicable federal regulations (40 CFR 112).

**Street Tree Inventory:** E Sciences conducted street tree inventories for the Normandy Shores and Normandy Isles neighborhoods. A total of 6,010 trees were inventoried using sub-meter accurate global positioning equipment and provided the City an ESRI ArcGIS shape file. The work included assessing each tree for its general condition and providing recommendations for maintenance.

**Greenspace Canopy Assessment:** Using i-Tree Canopy and i-Tree Vue, E Sciences assessed the extent of the City's urban forest canopy and the ecological services provided by the trees. Staff estimated the canopy coverage for the City's entire urban forest, its parks and its rights of way using i-Tree Canopy. It also estimated the percentage of available space remaining within the City for additional tree planting. E Sciences used this information to estimate the carbon sequestration and storage, as well as pollutant removal being provided by the trees. Staff developed a brochure for public education documenting the information from the study.

**Client/Contact Information:** City of Miami Beach, Elizabeth Wheaton, LEED AP  
Convention Center Drive, 4th Floor, Miami Beach, Florida 33139  
Tel. (305) 673-7080

**Project Dates:** 8/2011 – Ongoing

**Key Personnel:** Nadia Locke, PE, Patricia Gertenbach, PG, Maria Paituvi, PE; Justin Freedman, MS, Jennifer Savaro, MS, Matt White

**Contract Amount:** \$1,170,711

**Contractor/Construction Cost:** N/A

### **FORT LAUDERDALE CONTINUING CONTRACT FOR GENERAL ENVIRONMENTAL ENGINEERING**

E Sciences was awarded a contract with the City of Fort Lauderdale to provide environmental engineering support during two separate consultant selection processes. The scope of the contract provided us with a wide range of opportunities including the following projects:



#### **U.S. Department of Housing and Urban Development (HUD) Environmental Documentation and Area-wide Floodplain Management Eight-Step Decision-Making Process:**

The Fort Lauderdale City Commission has established four Community Investment Programs with a goal of providing matching grant funds for the construction of community improvements in the City's rights-of-way that enhance the quality of life for those who live, work, and visit. The projects include street name decorative posts, entryway monuments, concrete curbing, swales, sidewalks, median islands, decorative lighting, trees, landscaping, and irrigation. E Sciences has prepared numerous environmental documentation packages to support HUD funding for the City of Fort Lauderdale's neighborhood improvement projects. The majority of these involved the preparation of Environmental Checklists and Environmental Assessment documentation in compliance with HUD regulations. E Sciences also prepared two Floodplain Management Eight-Step Decision-Making Process documents for them to utilize when projects are located within a 100-year floodplain as defined by FEMA. These included a citywide document and one for a specific neighborhood drainage and roadway improvement project.



**Fort Lauderdale Low Level Bridges:** E Sciences provided asbestos surveys in anticipation of demolition and reconstruction of three low level neighborhood bridges for the City: The Harborage, Marcetta River, and Carlotta River. These reports met the requirements for FDOT, as FDOT was providing funding for this project.

**Fire Station #49:** This site was undergoing redevelopment with a new City fire station when petroleum contamination was discovered during construction. E Sciences mobilized to the site the same day as requested to further investigate the implications of this finding on construction and regulatory notification. Historical and regulatory records indicated historic USTs on the property. Consultation with regulatory agencies, collection of soil and groundwater samples and sound environmental judgment allowed this project to proceed with minimal time delay and costs to the project. E Sciences also conducted air monitoring for construction workers to evaluate potential health implications of exposure to the unknown products discovered and provide the City with such documentation.

**Opinion of Post Closure Costs, Wingate Landfill:** In response to a City audit, E Sciences was tasked to develop an opinion of post-remediation costs for this Superfund site. Historic and future operations with respect to maintenance and monitoring costs were compiled in several spreadsheets to provide future annual allocations until fiscal year 2032. E Sciences created the spreadsheets such that the cost forecasts may be updated annually.



**Fort Lauderdale Executive Airport Endangered Species Surveys, Permitting and Relocation:** E Sciences conducted multiple endangered species surveys and relocation for proposed construction projects at Fort Lauderdale Executive Airport. Endangered species encountered and relocated include burrowing owls and gopher tortoises.

**Hort Elementary:** E Sciences conducted a Phase I and Phase II ESA for the City to support their purchase of this school property intended for redevelopment as a neighborhood park. This property was initially developed by Mr. M.A. Hort who was one of the early Fort Lauderdale settlers. The project was expedited to meet contract constraints.

**Client/Contact Information:** City of Fort Lauderdale, Larry Teich  
100 North Andrews Avenue, Fort Lauderdale, Florida 33301  
Tel. (954) 828-7844

**Project Dates:** 6/2008 – Ongoing

**Key Personnel:** Nadia Locke, PE, Patricia Gertenbach, PG, Maria Paituvi, PE; Justin Freedman

**Contract Amount:** \$593,822

**Contractor/Construction Cost:** N/A

### BROWARD COUNTY CONTINUING ENVIRONMENTAL SERVICES

E Sciences has provided a host of environmental services for Broward County through our continuing “library” contract. Our services have focused on Phase I and Phase II ESAs, contamination assessment, remediation and storage tank services. The following outlines some of those projects:



**Copans Road Mass Transit Facility:** E Sciences provided tank closure assessment for an UST system upgrade project for 13 USTs with a combined storage capacity of 392,000 gallons. E Sciences’ provided assistance with developing the environmental portions of the contract documents for the construction project and to conduct the storage tank closure assessment and reporting activities. The UST upgrade was completed and E Sciences facilitated source

removal in several of the subsurface areas that were not covered under the state cleanup program, in order to not interfere with construction. We obtained \$50,000 in reimbursement funds from the State to offset source removal costs.

**Ravenswood Road Mass Transit Facility:** E Sciences conducted an extensive soil and groundwater assessment at this site to accompany a State Rehabilitation Funding Allocation (SRFA) application submitted to the FDEP proposing a funding allocation between the Broward County and FDEP. During source removal activities administered under the Petroleum Preapproval Program, an ineligible discharge of petroleum product was observed seeping into the excavation. FDEP ordered the Broward County Transportation (BCTD) to conduct a site assessment and provided an opportunity to negotiate a SRFA agreement. The source of the discharge appeared to be the stormwater drainage system near the bus maintenance and bus wash areas. In order to conduct a proper assessment, a thorough understanding of the underground utilities was the first step. Using geophysical techniques (electromagnetic survey and ground penetrating radar), Sunshine One Call utility locating service, dye tests, historic plans reviews, regulatory file review and interviews with past employees, E Sciences developed a detailed map that showed the connectivity between the various oil water separators, holding tanks, stormwater systems, floor drains and the bus wash.

A comprehensive sampling regime was necessary to properly assess the site due to the numerous suspect source areas. Fluorescent lighting to evaluate the presence of heavy petroleum was used as a field screening tool to complement the organic vapor analyzer readings and assist in the selection of soil samples for laboratory analysis. Areas with elevated total recoverable petroleum hydrocarbons were evaluated using fractionation in order to more accurately assess soils exceeding cleanup target levels (CTLs) and alternative leachability CTLs were developed. Other complicating factors included the need to obtain a permit for drilling in the FDOT/CSX Railway right-of-way, resolve outstanding utility easement property issues and coordinate with the concurrent stormwater drainage design/permitting project. E Sciences assisted BCTD with negotiating a 50/50 cost share with FDEP. We also conducted source removal activities and groundwater monitoring to confirm subsequent natural attenuation in areas that were considered to be outside of the FDEP eligible areas.

<b>Client/Contact Information:</b>	Broward County Transportation Department, Cindy Corbett-Elder 3201 West Copans Road, Pompano Beach, Florida 33069 Tel. (954) 357-8451
<b>Project Dates:</b>	2007 – Ongoing
<b>Key Personnel:</b>	Nadia Locke, PE, Patricia Gertenbach, PG, Maria Paituvi, PE; Justin Freedman, MS
<b>Contract Amount:</b>	\$444,549
<b>Contractor/Construction Cost:</b>	N/A

### **JACKSON SOUTH COMMUNITY HOSPITAL (ASBESTOS SURVEY AND MOLD ASSESSMENT)**

Jackson Health System awarded an Environmental Site Assessment Services for Various Jackson Health System Facilities to EBS as Prime Consultant. Using the contract, EBS was requested to provide pre-renovation asbestos survey and moisture survey/mold assessment in Jackson South Community Hospital located at 9333 SW 152 Street in Miami, Florida. This survey is required by Environmental Protection Agency's (EPA) National Emission Standards for Hazardous Air Pollutants prior to any renovation or demolition in buildings (40 CFR Part 61). The purpose of the moisture/mold investigation was to collect moisture measurements and swab samples in areas of suspected mold growth and elevated moisture prior to any planned renovation activities. Field Survey/Investigation: EBS performed an invasive prerenovation asbestos survey in the rooms as per applicable federal, state and local laws and regulations, using accredited EPA Asbestos Building Inspectors. Florida licensed Mold Assessor conducted the moisture/mold investigation in general accordance with the provisions of the Institute of Inspection Cleaning and Restoration

Certification S520 Standard and Reference Guide for Professional Mold Remediation guidelines. Laboratory Analysis: Bulk samples collected during the site survey were analyzed by Polarized Light Microscopy coupled with dispersion staining. This is the recommended method of analysis by EPA for asbestos identification in bulk samples. EMSL Analytical, Inc., the laboratory that analyzed the samples, has attained National Institute of Standards and Technology accreditation through participation in the National Voluntary Laboratory Accreditation Program. Percentages of the identified types of asbestos are determined by visual estimation. Any material containing more than one percent (1%) of asbestos is considered by EPA and OSHA to be ACM. The swap samples for mold were analyzed by EMSL, an environmental laboratory which is also accredited by the American Industrial Hygiene Association for Environmental Microbiology. Survey Findings/Reports. EBS prepared a report of the asbestos survey including the project information, bulk sampling procedures and the analytical results with recommendations for the handling of any ACMs identified. EBS also prepared a report for moisture survey/mold assessment documenting the project background information, the field and analytical results with findings and recommendations.

**Client/Contact Information:** Jackson Health System, Ms. Mari C. Lopez, Associate AIA, LEED  
9333 SW 152 Street, Miami, Florida  
Tel. (305) 298-1998

**Project Dates:** 2017

**Key Personnel:** Ben Essien, PE, Francisco Gomez, Ronquavis Fulton

**Contract Amount:** \$9,330

**Contractor/Construction Cost:** N/A

#### **KEY BISCAYNE BEACH MANAGEMENT**

M&N provided coastal engineering and environmental permitting services for the 2017 truck haul beach nourishment in the Village of Key Biscayne. The Village was impacted by Hurricane Matthew in October 2016, with extensive beach erosion that extended into the coastal dunes. Beach profiles were conducted to assess the storm impacts, and a maintenance beach nourishment project was designed. The design required Equilibrium Toe of Fill (ETOF) estimated to optimize the beach fill template design along 6,000 feet of shoreline. A coastal engineering analysis was performed utilizing two independent methods to estimate the ETOF to avoid impacts to adjacent nearshore seagrass beds. Prior to construction, M&N coordinated and managed updated biological mapping of the adjacent seagrass beds as well as monitoring transects along the from the project limits to include control transects outside of the project area. This data was utilized along with beach profile surveys to design the beach fill template. Construction plans and specifications were compiled, and M&N assisted the Village with procuring a qualified construction contractor on an expedited schedule. M&N provided construction administration services for the duration of the project for conformance with plans, specifications, and permit conditions. Pre- and post-construction profile sections were reviewed and volumes estimated to verify beach fill quantities as construction progressed.

M&N processed the maintenance project environmental permit authorizations through the USACE, FDEP, and the County. The Village has existing 10-year federal, state, and local environmental permits that facilitate beach maintenance projects. Beach nourishment plans, as well as updated monitoring and construction methodologies, were processed through the agencies. Construction extended a few weeks into marine turtle nesting season in Miami-Dade County; M&N managed the daily nesting surveys required prior to the season and extending into the nesting season. M&N is continuing to provide services for the Village for the required biological and physical monitoring to maintain compliance with environmental permits. In addition, M&N is working with the Village in processing FEMA reimbursements through the Engineered Beach program for the beach erosion due to Hurricane Irma in 2017.

M&N is providing coastal engineering and technical support to the Village as the USACE progresses with a 3-Year study to evaluate the federal shore protection project for Miami-Dade County. This study will encompass Key Biscayne as part of the evaluation to extend and expand the 50-year federal shore protection project that was originally authorized in the 1970s.

<b>Client/Contact Information:</b>	The Village of Key Biscayne, Jake Ozyman, PE, Director 88 West McIntyre Street, Key Biscayne, Florida 33149 Tel. (305) 365-7568
<b>Project Dates:</b>	On-going
<b>Key Personnel:</b>	Tim Blankenship, PE, Yong Chen, PhD, PE, Manuel Garcia-Castano, PE
<b>Contract Amount:</b>	\$150,000
<b>Contractor:</b>	Eastman Aggregates
<b>Construction Cost:</b>	\$1.6M

## Understanding of the Scope

### Real Estate Development Support Services

E Sciences understands that real estate development services could include due diligence activities such as [Phase I and II ESAs](#), environmental surveys, permitting and construction engineering inspections. Our seasoned professionals are meaningfully involved in each due diligence project to ensure that sufficient information is compiled and reviewed. When our proposed project manager was a staff engineer, she would interview Mr. Thomas Hambright at the Florida History section of the library as one of her key historical resources on Phase I ESAs. One time he showed her a photo from an old magazine that showed her site as a Gulf gasoline station and the recognized environmental condition was revealed. Having history and experience with Key West and conducting environmental research can be a critical element in real estate development support services. Our work on your City Hall illustrates our understanding of local unique considerations that other ESA firms may not typically consider, such as the importance of the project within the context of its surroundings, i.e., tree canopy and cultural resources.

Another service we provide to several cities as part of redevelopment or improvement projects is conducting environmental reviews to comply with [NEPA when a project is receiving federal funding](#). Examples of this include projects funded through the FDOT (sidewalks, bus shelters, bridge rehabilitations, bike paths, etc.) and neighborhood improvement projects funded by HUD (affordable housing, landscaping, drainage improvements, pavers/crosswalks, etc.).

We have assisted several cities with designing and [managing contamination risks as part of the bidding, design and construction processes](#). Examples include preparing “environmental notes” for bid packages for infrastructure improvements or assisting with site layout to avoid conflicts with drainage or other features that may exacerbate contamination or increase site development costs; and response to contamination issues identified during construction.

Another large part of our core business is providing [environmental permitting services](#). We have conducted many environmental permitting projects for neighborhood improvement projects, bridgework, roadways, utilities and new construction. E Sciences' staff have prepared hundreds of permit application packages. Our scientists and engineers are adept in GIS, and begin each assessment using web-based tools to produce maps that result in focused, efficient site surveys. We have extensive experience conducting such research in the Keys, including benthic and upland



surveys, habitat mapping, mitigation assessments, seagrass mapping and monitoring, and stormwater management design. Our scientists have experience with many of the issues that may need to be addressed in the course of this contract including sea turtle monitoring on beaches during sea turtle nesting season, specifications for Florida Fish and Wildlife Conservation Commission-approved sea turtle friendly lighting, Florida Keys National Marine Sanctuary permits, hardwood hammock protection, and turbidity monitoring/manatee observations during construction.



We are well known by and have excellent working relationships with the permitting agencies, and regularly facilitate agency meetings, such as pre-application meetings. An example of our recognized permitting expertise is our contract with FDEP to perform general permitting oversight in support of the development of the Florida Keys Overseas Heritage Trail, a 106-mile recreational paved trail leading from Key Largo to Key West, utilizing 23 of

the historic Flagler Railroad Bridges. This project involved numerous segments being designed by different engineering firms. E Sciences' role was to develop a Permit Plan to provide guidance to all of the various entities to streamline and unify the permitting process. As part of this project, specific duties included researching and cataloguing records of threatened and endangered species and wetlands along the Trail alignment, coordinating design and permitting activities for multiple engineering firms designing segments of the Trail, and creating a guidance plan for the environmental permitting and development of the Trail.

### **Resident Project Representation**

Ms. Nadia Locke, the E Sciences project manager will be available by telephone and will collectively work with the City through this process quickly to determine the City's needs, the nature of the project and the skill set of the staff needed to expedite the project. She will bring the best-suited professional team to the project. We have complemented our team with Perez who will be available at a moment's notice to assist the City under Ms. Locke's leadership. They are available for engineering and specification development, construction engineering inspections and on-site representation as needed. Their knowledge of Key West can also assist in the selection of contractors for construction projects. Their knowledge of the City and its administrative processes that Perez brings to the team will provide a great benefit of continuity and efficiency to the City under this contract. We have a long-standing relationship with Perez since winning our first contract as a team for the City of Key West in 2001 and recently completed the Truman Waterfront Park project together.

We have assisted numerous cities with Resident Project Representative Services, such as the administrative and technical process of hiring and managing contractors for rehabilitation and new construction. Our contract with Islamorada presents several good examples of this. We developed the RFP and managed the contractor selection process for the design build project for the North Plantation Key wastewater treatment facility and collection system. We conducted all of the contract administration including managing the negotiation of the contract terms with the awarded contractor, reviewing all pay items, negotiating change orders and conducting construction engineering inspections. As follow on work to this, we developed the RFP and facilitated the selection of Islamorada's first wastewater treatment facility operator. In this process, we managed all of the permits, permit modifications, regulatory coordination and public involvement as well. We assisted the community with grant funding to offset cost for connecting to the collection system.

### **Contamination Site Investigation and Remediation**

Contaminated site investigations and remediation can include evaluating historical site information, hydrogeological and engineering evaluations, feasibility and cost benefit analyses for various remedial options, design, permitting and installation of remediation systems with oversight, and resident project representation. When contamination is identified, we can develop an innovative and cost-effective method to manage or remediate the contamination. E Sciences' geologists, scientists and engineers are well-versed in a variety of approaches to managing and remediating contaminated properties. Our understanding of contaminant fate and transport issues and the nature of various contaminants helps us to evaluate and select the appropriate remedial solutions for our clients, taking into account the potential liabilities, the lowest-possible costs and the shortest time to closure. E Sciences has extensive experience investigating surface and subsurface environments and is very familiar with geological and hydrogeological systems in the Keys.



FDEP has several initiatives that are changing the face of contamination management in Florida. The impetus for these initiatives is to address concerns of the regulated community in areas where the existing rules do not adequately address complex issues related to background or anthropogenic conditions, institutional limitations, actual toxicity, and testing limitations. We are involved in the development of these new policies, rules and guidance documents through our engagement in the Florida Brownfields Association. We have an in depth understanding of these issues and FDEP's allowances for developing alternative solutions to dealing with contaminated properties. This allows us to bring new and practical ideas and approaches to City and have successfully applied FDEP emerging principles and policies.

As an example, in preparation for bidding the redevelopment of the City of West Palm Beach's former city hall project, the City requested that we conduct a Phase I and II ESA and an asbestos survey. We identified benzo(a)pyrene above regulatory standards in the soil at the property. Using the provisions of a 2013 FDEP guidance document we were able to save the City approximately \$1M in cleanup costs. This was accomplished by developing a soil management plan to be used during construction in lieu of a typical scenario of a remedial action plan specifying soil excavation and disposal to "remediate" the property. In order to achieve this, we presented a technical basis that there was not a point source discharge on the Site and therefore a discharge of contaminants did not occur, and that the property did not create a public health hazard. We also assisted the City in preparing documentation to support the bidding documents.

If active remediation is required, we can design a remediation approach that will suit site conditions and schedule/cost constraints. We recently implemented a large chlorinated solvent cleanup project that included source removal, followed by in situ chemical oxidation. This was a large project that involved dewatering the surficial aquifer to 30 feet using over 120 wellpoints, excavation of approximately 11,000 cubic feet of solvent-impacted soils and application of 12,000 gallons of a chemical oxidant amendment, to the backfill material.



### **Underground Storage Tank Site Services**

Storage tank site services may include hydrogeological investigations, monitoring well design and installation oversight, UST removal and replacement oversight, tank closure assessments, contamination assessments, and remedial system design, installation, permitting and management. We will work closely with the City to address its specialized storage tank needs. We can provide turn-key storage tanks services as needed. Example turn-key projects include the tank upgrades for the Broward

County Copans Road Mass Transit facility. This involved UST system upgrade of 13 USTs with a combined volume of 382,000 gallons. We also assisted the County in obtaining \$50,000 in relief from the State to offset soil disposal costs. Right now, we are assisting the City of Fort Lauderdale with design, bidding and contractor oversight of replacement of a leaking UST associated with one of their potable wellfield supply wells. The City is currently bidding the project using the design and plan notes we prepared. Should the City require preparation or updating of SPCC plans, E Sciences would provide these services in-house as we did for the City of Miami Beach. E Sciences prepared SPCC Plans for 12 facilities throughout Miami Beach. These facilities included pump stations, fire stations, public works yard, Miami Beach Golf Club and the Convention Center. Working together as a team, we ensure that the City maintains compliance with applicable rules and regulations.

### **Coastal Engineering Services**

E Sciences is pleased to have selected **M&N** to assist us with coastal engineering services. While E Sciences can provide all of the scientific expertise related to benthic surveys, habitat assessment, mitigation and monitoring, M&N have extensive experience providing coastal engineering and permitting services for public and private projects in Monroe County. These projects include beaches, marinas, piers, bulkheads, and environmental resource mapping. E Sciences and M&N have a long-standing working relationship and are currently working with them on a mooring field feasibility study and coastal permits for a “baywalk” in Miami Beach.

### **Industrial Hygiene Services**

**EBS** will assist E Sciences with industrial hygiene services on this contract. Industrial hygiene services may include consultation for ensuring compliance with health and safety rules/regulations, as well as conducting asbestos and lead based paint surveys, abatement or management. Our project manager and the President of EBS have a long-standing relationship that extends back to 1990. EBS’ staff are qualified, well-trained and accredited by responsible agencies such as the EPA, States and Technical Organizations, and annually acquire the continuing education to keep abreast of the state-of-art information and technologies in their specialties. EBS’ scientists, inspectors, indoor air specialists, industrial hygienists and mold assessors have vast experience related to mold and moisture assessment, lead-based paint inspection, asbestos survey, indoor air quality investigation and accumulated dust sampling for common allergens.



## Engineering Personnel Classifications and Qualifications

Staff Name	Years of Experience	% Available	Contaminated Site Investigation/ Remediation	Industrial Hygiene Services	UST Services	Real Estate Development Support Services	Coastal Engineering & Permitting Services	Resident Project Representative
Nadia Locke, PE	31	50	X	X	X	X	X	X
Jim Orioles, PE	20	25	X	X	X	X		X
Maria Paituvi, PE	13	50	X		X	X		X
Patricia Gertenbach, PG	28	25	X		X	X	X	
Flormari Blackburn, PE	30	25	X		X	X		
Scott Evanson, PG	38	25	X	X	X	X		X
Justin Freedman, MS		20			X	X	X	
Matt White	2	30	X	X	X	X		X
Peter Partlow, PE	31	20	X		X	X		X
Jennifer Savaro, MS	7	40	X			X	X	
Gayle Stone, MS	25	50				X	X	X
Jamie Patterson-Brady, PG	12	75	X	X	X	X		X
Matthew Martin	21	25	X		X	X	X	
Josh Smith	5	50	X		X	X		X
Benjamin S. Essien, PE	37	40	X	X	X	X		X
Francisco E. Gomez	33	50	X	X	X	X		X
Ronquavis Fulton	4	50		X				X
Ricardo Martinez	42	60	X	X	X	X		X
Allen Perez, PE	24	10						X
Justin Henika, PE	5	15					X	X
Timothy K. Blankenship, PE	25	20					X	X
Yong Chen, PhD, PE	34	40					X	
Manuel Garcia-Castano, PE	5	30					X	



## Proposed Management Approach to Services

**Contract Management.** E Sciences' management philosophy is based on listening to City staff and understanding the City's business and technical needs, budgetary constraints, staffing needs, and project deadlines. We will develop project-specific scopes to satisfy these necessities, combining experience with ingenuity to develop the best solution for each situation. We consider efficiency of design, quality of work, and on-time performance essential principles. Our aim is to provide accurate information and sound solutions that satisfy the needs of the City, regulatory agencies and the public. E Sciences can mobilize teams to simultaneously complete multiple projects. We have successfully managed projects ranging from simple studies to large multi-disciplinary projects. The goal of our management system is to provide quality service that is responsive to the client's needs, is on time, and is within budget.

Our organizational structure enables the project manager, Nadia Locke, to serve as your single point of contact; to provide overall contract management; and to oversee project execution in a centralized manner. If appropriate for smaller tasks, Ms. Locke may assign a project coordinator for managing simultaneous projects. In these instances, the project coordinator may handle the day-to-day execution of the project. This process will ensure that an integrated approach is used in executing individual task orders. Upon receipt of a task order from the City, Ms. Locke will review the task order; provide the fee estimate; and schedule the workflow. Ms. Locke will then assemble and mobilize the appropriate professional and technical team members for executing the work. She will monitor and report the status of schedule, budget, technical quality and overall performance directly to the City's project manager. Ms. Locke excels at proactively working to avoid or mitigate project problems before they adversely affect the performance of the assigned services.

In order to provide services expeditiously at the request of the City, our management approach also includes the partnership with Perez, a local engineering firm that we have an established working relationship. E Sciences will be able to access local representatives to send to a project or City office to respond right away and to further develop and refine the next steps to meet any of the City needs.

**Quality Assurance/Quality Control (QA/QC) Procedures.** E Sciences' QA/QC plan incorporates quality assurance and control into each facet of our services, from the first phone call to the final invoice, regardless of the project size. The ultimate purpose of our QA/QC plan is to provide the City with confidence that all services are performed in accordance with our project scope and industry standards and that quality assurance is integral to every step of our process. E Sciences has achieved excellent success with similar contracts as a result of our detailed, structured approach to controlling quality.

Each project is assigned to a project manager who is accountable for all aspects of the project. A Technical Quality Assurance Professional (TQAP) is assigned to each project task involving engineering or scientific evaluations, interpretation, or professional judgment. Each proposal, report, or other document prepared for clients that contain engineering or scientific evaluation, interpretation, or professional judgment must be reviewed by two individuals, at least one of whom must be a TQAP Reviewer with qualifications and experience relevant to the area of work. Ms. Locke and Ms. Gertenbach are both TQAP Reviewers who will be involved in each and every City project.

E Sciences coordinates closely with client project managers during the quality control process to ensure the final product meets both corporate and client quality standards prior to publication. As part of our quality assurance review process, internal controls incorporate the diverse expertise of one or more senior staff members to perform initial technical reviews. Secondary reviews of revisions are conducted by senior staff as a part of report finalization. The TQAP then performs a final review of all finished products, with close interaction of senior staff, to provide accuracy and quality before delivery.



RFQ ENVIRONMENTAL ENGINEERING SERVICES 2020

**SWORN STATEMENT UNDER SECTION 287.133(3)(a)  
FLORIDA STATUTES, ON PUBLIC ENTITY CRIMES**

**THIS FORM MUST BE SIGNED IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICE  
AUTHORIZED TO ADMINISTER OATHS.**

1. This sworn statement is submitted with Bid, Bid or Contract No. RFQ No.20 - 002 for  
Environmental Engineering Services
  
2. This sworn statement is submitted by E Sciences, Incorporated  
(Name of entity submitting sworn statement)  
  
whose business address is 1021 Ives Dairy Road, Ste #216, Miami, Florida 33179  
  
and (if applicable) its Federal  
Employer Identification Number (FEIN) is 59-3667002 (If the entity has no FEIN,  
include the Social Security Number of the individual signing this sworn statement.)
  
3. My name is Peter K. Partlow, PE and my relationship to  
(Please print name of individual signing)  
  
the entity named above is President.
  
4. I understand that a "public entity crime" as defined in Paragraph 287.133(1)(g), Florida Statutes, means a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity or with an agency or political subdivision of any other state or with the United States, including but not limited to, any Bid or contract for goods or services to be provided to any public entity or an agency or political subdivision of any other state or of the United States and involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, material misrepresentation.
  
5. I understand that "convicted" or "conviction" as defined in Paragraph 287.133(1)(b), Florida Statutes, means a finding of guilt or a conviction of a public entity crime, with or without an adjudication of guilt, in any federal or state trial court of record relating to charges brought by indictment information after July 1, 1989, as a result of a jury verdict, nonjury trial, or entry of a plea of guilty or nolo contendere.
  
6. I understand that an "affiliate" as defined in Paragraph 287.133(1)(a), Florida Statutes, means
  1. A predecessor or successor of a person convicted of a public entity crime: or
  2. An entity under the control of any natural person who is active in the management of the entity and who has been convicted of a public entity crime. The term "affiliate" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an affiliate. The ownership by one person of shares constituting controlling interest in another person, or a pooling of equipment or income among persons when not for fair market value under an arm's length agreement, shall be a prima facie case that one person controls another person. A person who knowingly enters into a joint venture with a person who has been convicted of a public entity crime in Florida during the preceding 36 months shall be considered an affiliate.
  
7. I understand that a "person" as defined in Paragraph 287.133(1)(8), Florida Statutes, means any natural person or entity organized under the laws of any state or of the United States with the legal power to enter

RFQ ENVIRONMENTAL ENGINEERING SERVICES 2020

into a binding contract and which Bids or applies to Bid on contracts for the provision of goods or services let by a public entity, or which otherwise transacts or applies to transact business with a public entity. The term "person" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in management of an entity.

8. Based on information and belief, the statement, which I have marked below, is true in relation to the entity submitting this sworn statement. (Please indicate which statement applies.)

X Neither the entity submitting this sworn statement, nor any officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, nor any affiliate of the entity have been charged with and convicted of a public entity crime subsequent to July 1, 1989.

     The entity submitting this sworn statement, or one or more of the officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989, AND (Please indicate which additional statement applies.)

     There has been a proceeding concerning the conviction before a hearing of the State of Florida, Division of Administrative Hearings. The final order entered by the hearing officer did not place the person or affiliate on the convicted vendor list. (Please attach a copy of the final order.)

     The person or affiliate was placed on the convicted vendor list. There has been a subsequent proceeding before a hearing officer of the State of Florida, Division of Administrative Hearings. The final order entered by the hearing officer determined that it was in the public interest to remove the person or affiliate from the convicted vendor list. (Please attach a copy of the final order.)

     The person or affiliate has not been put on the convicted vendor list. (Please describe any action taken by or pending with the Department of Environmental Services.)

*Peter Parflow*

\_\_\_\_\_  
(Signature)

January 6, 2020

\_\_\_\_\_  
(Date)

STATE OF Florida

COUNTY OF Orange

PERSONALLY APPEARED BEFORE ME, the undersigned authority,

Peter Parflow

(Name of individual signing)

who, after first being sworn by me, affixed his/her signature in the

space provided above on this 6<sup>th</sup> day of January, 2020.

My commission expires: June 3, 2022  
NOTARY PUBLIC

*Laura M Aldridge*



LAURA M ALDRIDGE  
Commission # GG 222870  
Expires June 3, 2022  
Bonded Thru Budget Notary Services



RFQ ENVIRONMENTAL ENGINEERING SERVICES 2020

EQUAL BENEFITS FOR DOMESTIC PARTNERS AFFIDAVIT

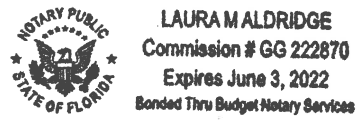
STATE OF FLORIDA                    )  
  : SS  
COUNTY OF Orange                )

I, the undersigned hereby duly sworn, depose and say that the firm of E Sciences, Incorporated provides benefits to domestic partners of its employees on the same basis as it provides benefits to employees' spouses per City of Key West Ordinance Sec. 2-799.

Peter K. Partlow, PE, President  
By: *Peter Partlow*

Sworn and subscribed before me this

6<sup>th</sup> Day of January, 2020.  
*Laura M Aldridge*  
NOTARY PUBLIC, State of Florida at Large



My Commission Expires: June 03, 2022

RFQ ENVIRONMENTAL ENGINEERING SERVICES 2020

**City Ordinance Sec. 2-799**  
**Requirements for City Contractors to Provide Equal Benefits for Domestic Partners**

- (a) Definitions. For purposes of this section only, the following definitions shall apply:
- (1) **Benefits** means the following plan, program or policy provided or offered by a contractor to its employees as part of the employer's total compensation package: sick leave, bereavement leave, family medical leave, and health benefits.
  - (2) **Bid** shall mean a competitive bid procedure established by the city through the issuance of an invitation to bid, request for proposals, request for qualifications, or request for letters of interest.
  - (3) **Cash equivalent** means the amount of money paid to an employee with a domestic partner in lieu of providing benefits to the employee's domestic partner. The cash equivalent is equal to the employer's direct expense of providing benefits to an employee for his or her spouse.

The cash equivalents of the following benefits apply:

- a. For bereavement leave, cash payment for the number of days that would be allowed as paid time off for the death of a spouse. Cash payment would be in the form of the wages of the domestic partner employee for the number of days allowed.
  - b. For health benefits, the cost to the contractor of the contractor's share of the single monthly premiums that are being paid for the domestic partner employee, to be paid on a regular basis while the domestic partner employee maintains such insurance in force for himself or herself.
  - c. For family medical leave, cash payment for the number of days that would be allowed as time off for an employee to care for a spouse who has a serious health condition. Cash payment would be in the form of the wages of the domestic partner employee for the number of days allowed.
- (4) **Contract** means any written agreement, purchase order, standing order or similar instrument entered into pursuant to the award of a bid whereby the city is committed to expend or does expend funds in return for work, labor, professional services, consulting services, supplies, equipment, materials, construction, construction related services or any combination of the foregoing.
  - (5) **Contractor** means any person or persons, sole proprietorship, partnership, joint venture, corporation, or other form of doing business, that is awarded a bid and enters into a covered contract with the city, and which maintains five (5) or more full-time employees.
  - (6) **Covered contract** means a contract between the city and a contractor awarded subsequent to the date when this section becomes effective valued at over twenty thousand dollars (\$20,000).
  - (7) **Domestic partner** shall mean any two adults of the same or different sex, who have registered as domestic partners with a governmental body pursuant to state or local law authorizing such registration, or with an internal registry maintained by the

## RFQ ENVIRONMENTAL ENGINEERING SERVICES 2020

employer of at least one of the domestic partners. A contractor may institute an internal registry to allow for the provision of equal benefits to employees with domestic partner who do not register their partnerships pursuant to a governmental body authorizing such registration, or who are located in a jurisdiction where no such governmental domestic partnership registry exists. A contractor that institutes such registry shall not impose criteria for registration that are more stringent than those required for domestic partnership registration by the City of Key West pursuant to Chapter 38, Article V of the Key West Code of Ordinances.

- (8) ***Equal benefits*** mean the equality of benefits between employees with spouses and employees with domestic partners, and/or between spouses of employees and domestic partners of employees.
- (b) Equal benefits requirements.
- (1) Except where otherwise exempt or prohibited by law, a Contractor awarded a covered contract pursuant to a bid process shall provide benefits to domestic partners of its employees on the same basis as it provides benefits to employees' spouses.
  - (2) All bid requests for covered contracts which are issued on or after the effective date of this section shall include the requirement to provide equal benefits in the procurement specifications in accordance with this section.
  - (3) The city shall not enter into any covered contract unless the contractor certifies that such contractor does not discriminate in the provision of benefits between employees with domestic partners and employees with spouses and/or between the domestic partners and spouses of such employees.
  - (4) Such certification shall be in writing and shall be signed by an authorized officer of the contractor and delivered, along with a description of the contractor's employee benefits plan, to the city's procurement director prior to entering into such covered contract.
  - (5) The city manager or his/her designee shall reject a contractor's certification of compliance if he/she determines that such contractor discriminates in the provision of benefits or if the city manager or designee determines that the certification was created, or is being used for the purpose of evading the requirements of this section.
  - (6) The contractor shall provide the city manager or his/her designee, access to its records for the purpose of audits and/or investigations to ascertain compliance with the provisions of this section, and upon request shall provide evidence that the contractor is in compliance with the provisions of this section upon each new bid, contract renewal, or when the city manager has received a complaint or has reason to believe the contractor may not be in compliance with the provisions of this section. This shall include but not be limited to providing the city manager or his/her designee with certified copies of all of the contractor's records pertaining to its benefits policies and its employment policies and practices.
  - (7) The contractor may not set up or use its contracting entity for the purpose of evading the requirements imposed by this section.

## RFQ ENVIRONMENTAL ENGINEERING SERVICES 2020

- (c) Mandatory contract provisions pertaining to equal benefits. Unless otherwise exempt, every covered contract shall contain language that obligates the contractor to comply with the applicable provisions of this section. The language shall include provisions for the following:
- (1) During the performance of the covered contract, the contractor certifies and represents that it will comply with this section.
  - (2) The failure of the contractor to comply with this section will be deemed to be a material breach of the covered contract.
  - (3) If the contractor fails to comply with this section, the city may terminate the covered contract and all monies due or to become due under the covered contract may be retained by the city. The city may also pursue any and all other remedies at law or in equity for any breach.
  - (4) If the city manager or his designee determines that a contractor has set up or used its contracting entity for the purpose of evading the requirements of this section, the city may terminate the covered contract.
- (d) Enforcement. If the contractor fails to comply with the provisions of this section:
- (1) The failure to comply may be deemed to be a material breach of the covered contract; or
  - (2) The city may terminate the covered contract; or
  - (3) Monies due or to become due under the covered contract may be retained by the city until compliance is achieved; or
  - (4) The city may also pursue any and all other remedies at law or in equity for any breach;
  - (5) Failure to comply with this section may also subject contractor to the procedures set forth in Division 5 of this article, entitled "Debarment of contractors from city work."
- (e) Exceptions and waivers.

The provisions of this section shall not apply where:

- (1) The contractor does not provide benefits to employees' spouses.
- (2) The contractor is a religious organization, association, society or any non-profit charitable or educational institution or organization operated, supervised or controlled by or in conjunction with a religious organization, association or society.
- (3) The contractor is a governmental entity.
- (4) The sale or lease of city property.
- (5) The provision of this section would violate grant requirement, the laws, rules or regulations of federal or state law (for example, The acquisition services procured pursuant to Chapter 287.055, Florida Statutes known as the "Consultants' Competitive Negotiation Act").



RFQ ENVIRONMENTAL ENGINEERING SERVICES 2020

- (6) Provided that the contractor does not discriminate in the provision of benefits, a contractor may also comply with this section by providing an employee with the cash equivalent of such benefits, if the city manager or his/her designee determines that either:
  - a. The contractor has made a reasonable yet unsuccessful effort to provide equal benefits. The contractor shall provide the city manager or his/her designee with sufficient proof of such inability to provide such benefit or benefits which shall include the measures taken to provide such benefits or benefits and the cash equivalent proposed, along with its certificate of compliance, as is required under this section.
- (7) The city commission waives compliance of this section in the best interest of the city, including but not limited to the following circumstances:
  - a. The covered contract is necessary to respond to an emergency.
  - b. Where only one bid response is received.
  - c. Where more than one bid response is received, but the bids demonstrate that none of the bidders can comply with the requirements of this section.
- (f) City's authority to cancel contract. Nothing in this section shall be construed to limit the city's authority to cancel or terminate a contract, deny or withdraw approval to perform a subcontract or provide supplies, issue a non-responsibility finding, issue a non-responsiveness finding, deny a person or entity prequalification, or otherwise deny a person or entity city business.
- (g) Timing of application. This section shall be applicable only to covered contracts awarded pursuant to bids which are after the date when this section becomes effective.

RFQ ENVIRONMENTAL ENGINEERING SERVICES 2020

**CONE OF SILENCE AFFIDAVIT**

STATE OF Florida )  
 : SS  
COUNTY OF Orange )

I the undersigned hereby duly sworn depose and say that all owner(s), partners, officers, directors, employees and agents representing the firm of E Sciences, Incorporated have read and understand the limitations and procedures regarding communications concerning City of Key West issued competitive solicitations pursuant to City of Key West Ordinance Section 2-773 Cone of Silence (attached).

Peter K. Parlow, PE, President  
Peter Parlow

Sworn and subscribed before me this

6<sup>th</sup> Day of January, 2020.

Laura M Aldridge  
NOTARY PUBLIC, State of Florida at Large



LAURA MALDRIDGE  
Commission # GG 222870  
Expires June 3, 2022  
Bonded Thru Budget Notary Services

My Commission Expires: June 03, 2022

## RFQ ENVIRONMENTAL ENGINEERING SERVICES 2020

### Sec. 2-773. Cone of Silence

- (a) **Definitions.** For purposes of this section, reference to one gender shall include the other, use of the plural shall include the singular, and use of the singular shall include the plural. The following definitions apply unless the context in which the word or phrase is used requires a different definition:
- 1) *Competitive Solicitation* means a formal process by the City of Key West relating to the acquisition of goods or services, which process is intended to provide an equal and open opportunity to qualified persons and entities to be selected to provide the goods or services. Competitive Solicitation shall include request for proposals ("RFP"), request for qualifications ("RFQ"), request for letters of interest ("RFLI"), invitation to bid ("ITB") or any other advertised solicitation.
  - 2) *Cone of Silence* means a period of time during which there is a prohibition on communication regarding a particular Competitive Solicitation.
  - 3) *Evaluation or Selection Committee* means a group of persons appointed or designated by the City to evaluate, rank, select, or make a recommendation regarding a Vendor or the Vendor's response to the Competitive Solicitation. A member of such a committee shall be deemed a city official for the purposes of subsection (c) below.
  - 4) *Vendor* means a person or entity that has entered into or that desires to enter into a contract with the City of Key West or that seeks an award from the City to provide goods, perform a service, render an opinion or advice, or make a recommendation related to a Competitive Solicitation for compensation or other consideration.
  - 5) *Vendor's Representative* means an owner, individual, employee, partner, officer, or member of the board of directors of a Vendor, or a consultant, lobbyist, or actual or potential subcontractor or sub consultant who acts at the behest of a Vendor in communicating regarding a Competitive Solicitation.
- (b) **Prohibited Communications:** A Cone of Silence shall be in effect during the course of a Competitive Solicitation and prohibit:
- 1) Any communication regarding a particular Competitive Solicitation between a potential Vendor or Vendor's Representative and the City's administrative staff including, but not limited to, the city manager and his or her staff;

RFQ ENVIRONMENTAL ENGINEERING SERVICES 2020

- 2) Any communication regarding a particular Competitive Solicitation between a potential Vendor or Vendor's Representative and the Mayor, City Commissioners, or their respective staff;
  - 3) Any communication regarding a particular Competitive Solicitation between a potential Vendor or Vendor's Representative and any member of a City evaluation and/or selection committee therefore; and
  - 4) Any communication regarding a particular Competitive Solicitation between the Mayor, City Commissioners, or their respective staff, and a member of a City evaluation and/or selection committee therefore.
- (c) Permitted Communications: Notwithstanding the foregoing, nothing contained herein shall prohibit:
- 1) Communication between members of the public who are not Vendors or a Vendor's representative and any city employee, official or member of the City Commission;
  - 2) Communications in writing at any time with any city employee, official or member of the City Commission, unless specifically prohibited by the applicable Competitive Solicitation.
    - (A) However, any written communication must be filed with the City Clerk. Any City employee, official or member of the City Commission receiving or making any written communication must immediately file it with the City Clerk.
    - (B) The City Clerk shall include all written communication as part of the agenda item when publishing information related to a particular Competitive Solicitation.
  - 3) Oral communications at duly noticed pre-bid conferences;
  - 4) Oral presentations before publically noticed evaluation and/or selection committees;
  - 5) Contract discussions during any duly noticed public meeting;
  - 6) Public presentations made to the City Commission or advisory body thereof during any duly noticed public meeting;



## RFQ ENVIRONMENTAL ENGINEERING SERVICES 2020

- 7) Contract negotiations with city staff following the award of a Competitive Solicitation by the City Commission; or
- 8) Purchases exempt from the competitive process pursuant to section 2-797 of these Code of Ordinances.

### (d) Procedure

- 1) The Cone of Silence shall be imposed upon each Competitive Solicitation at the time of Public Notice of such solicitation as provided by section 2-826 of this Code. Public notice of the Cone of Silence shall be included in the notice of the Competitive Solicitation. The city manager shall issue a written notice of the release of each Competitive Solicitation to the affected departments, with a copy thereof to each Commission member, and shall include in any public solicitation for goods and services a statement disclosing the requirements of this ordinance.
- 2) The Cone of Silence shall terminate at the time the City Commission or other authorized body makes final award or gives final approval of a contract, rejects all bids or responses to the Competitive Solicitation, or takes other action which ends the Competitive Solicitation.
- 3) Any City employee, official or member of the City Commission that is approached concerning a Competitive Solicitation while the Cone of Silence is in effect shall notify such individual of the prohibitions contained in this section. While the Cone of Silence is in effect, any City employee, official or member of the City Commission who is the recipient of any oral communication by a potential Vendor or Vendor's Representative in violation of this section shall create a written record of the event. The record shall indicate the date of such communication, the persons with whom such communication occurred, and a general summation of the communication.

### (e) Violations/penalties and procedures.

- 1) A sworn complaint alleging a violation of this ordinance may be filed with the City Attorney's office. In each such instance, an initial investigation shall be performed to determine the existence of a violation. If a violation is found to exist, the penalties and process shall be as provided in section 1-15 of this Code.

## RFQ ENVIRONMENTAL ENGINEERING SERVICES 2020

- 2) In addition to the penalties described herein and otherwise provided by law, a violation of this ordinance shall render the Competitive Solicitation void at the discretion of the City Commission.
- 3) Any person who violates a provision of this section shall be prohibited from serving on a City of Key West advisory board, evaluation and/or selection committee.
- 4) In addition to any other penalty provided by law, violation of any provision of this ordinance by a City of Key West employee shall subject said employee to disciplinary action up to and including dismissal.

If a Vendor is determined to have violated the provisions of this section on two more occasions it shall constitute evidence under City Code section 2-834 that the Vendor is not properly qualified to carry out the obligations or to complete the work contemplated by any new Competitive Solicitation. The City's Purchasing Agent shall also commence any available debarment from city work proceeding that may be available upon a finding of two or more violations by a Vendor of this section.

**NON-COLLUSION AFFIDAVIT**

STATE OF FLORIDA                    )  
  :  
SS COUNTY OF ~~MONROE~~        )  
  Orange

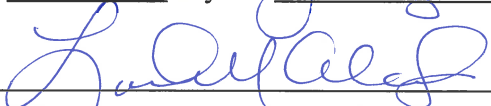
I, the undersigned hereby declares that the only persons or parties interested in this Proposal are those named herein, that this Proposal is, in all respects, fair and without fraud, that it is made without collusion with any official of the Owner, and that the Proposal is made without any connection or collusion with any person submitting another Proposal on this Contract.

Peter K. Partlow, PE, President

By: 

Sworn and subscribed before me this

6<sup>th</sup> day of January, 2020.

  
NOTARY PUBLIC, State of Florida at Large

My Commission Expires: June 03, 2022

**CITY OF KEY WEST INDEMNIFICATION FORM**

PROPOSER agrees to protect, defend, indemnify, save and hold harmless The City of Key West, all its Departments, Agencies, Boards, Commissions, officers, City’s Consultant, agents, servants and employees, including volunteers, from and against any and all claims, debts, demands, expense and liability arising out of injury or death to any person or the damage, loss of destruction of any property which may occur or in any way grow out of any act or omission of the PROPOSER, its agents, servants, and employees, or any and all costs, expense and/or attorney fees incurred by the City as a result of any claim, demands, and/or causes of action except of those claims, demands, and/or causes of action arising out of the negligence of The City of Key West, all its Departments, Agencies, Boards, Commissions, officers, agents, servants and employees. The PROPOSER agrees to investigate, handle, respond to, provide defense for and defend any such claims, demand, or suit at its sole expense and agrees to bear all other costs and expenses related thereto, even if it (claims, etc.) is groundless, false or fraudulent. The City of Key West does not waive any of its sovereign immunity rights, including but not limited to, those expressed in Section 768.28, Florida Statutes.

These indemnifications shall survive the term of this agreement. In the event that any action or proceeding is brought against the City of Key West by reason of such claim or demand, PROPOSER shall, upon written notice from the City of Key West, resist and defend such action or proceeding by counsel satisfactory to the City of Key West.

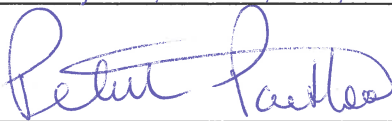
The indemnification provided above shall obligate PROPOSER to defend at its own expense to and through appellate, supplemental or bankruptcy proceeding, or to provide for such defense, at the City of Key West’s option, any and all claims of liability and all suits and actions of every name and description covered above which may be brought against the City of Key West whether performed by PROPOSER, or persons employed or utilized by PROPOSER.

The PROPOSER’s obligation under this provision shall not be limited in any way by the agreed upon Contract Price as shown in this agreement, or the PROPOSER’s limit of or lack of sufficient insurance protection.

COMPANY SEAL

PROPOSER: E Sciences, Incorporated

Address 1021 Ives Dairy Road, Ste. #216, Miami, Florida 33179

Signature 

Peter K. Partlow, PE  
Print Name

January 6, 2020  
Date

Title President





RFQ ENVIRONMENTAL ENGINEERING SERVICES 2020

NOTARY FOR THE PROPOSER

STATE OF Florida

COUNTY OF Orange

The foregoing instrument was acknowledged before me this 6 day of January, 2020. By Peter Partlow, of E Sciences, Incorporated (Name of officer or agent, title of officer or agent) Name of corporation acknowledging)

or has produced \_\_\_\_\_ as identification.

Peter K. Partlow, PE, President  
Peter Partlow

Laura Maldrige

Signature of Notary



LAURA MALDRIDGE  
Commission # GG 222870  
Expires June 3, 2022  
Bonded Thru Budget Notary Services

Return Completed form with Print, Type or Stamp Name of Notary

Supporting documents to: City of Key West Purchasing

Title or Rank



---

**Orlando**

34 E. Pine Street, Orlando, Florida 32801  
Tel. (407) 481-9006 Fax. (407) 481-9627

**Fort Lauderdale**

224 SE 9th Street, Fort Lauderdale, Florida 33316  
Tel. (954) 484-8500 Fax. (954) 484-5146

**Miami**

1021 Ives Dairy Road, Suite #216, Miami, Florida 33179  
Tel. (786) 517-2632 Fax. (305) 397-1556

**DeLand**

116 Indiana Avenue, DeLand, Florida 32724  
Tel. (386) 734-1950 Fax. (386) 734-1952

**Tampa**

2329 Sunset Point Road, Suite 200  
Clearwater, Florida