TETRA TECH

Environmental Engineering Services

RFQ #25-002

April 10, 2025

TETRA TECH

April 10, 2025

Lucas Torres-Bull, Procurement Manager
City of Key West
1300 White Street
Key West, FL 33040

Re: Environmental Engineering Services, RFQ #25-002

Dear Mr. Torres-Bull,

Tetra Tech, along with its wholly-owned subsidiary Ardaman and Associates, is pleased to submit this response to your Request for Qualifications for Environmental Engineering Services for the City of Key West. For the past 10 years, we have been proud to provide the City of Key West with our dedicated team of qualified and experienced professionals offering exceptional project management, technical expertise, and a unique understanding of the City's needs on each of your projects. Our efforts have delivered tangible results in all phases of the project cycle, from initial planning with assessments and evaluations of alternatives to procurement of regulatory permits and bid support. Each of these projects has culminated with the delivery of safe, successful, and properly managed construction projects. With each project, Tetra Tech has maintained a keen focus on delivering our work products on schedule and doing so at or under budget.

We understand many of the unique challenges that face the City of Key West now and in the years to come. Among these are the need to bolster workforce housing, to sustainably address the effects of changing weather patterns and sea level rise, and to continue to provide a high level of service not only to the Conch residents who call Key West home, but also the droves of tourists who flock to Key West for its indelible reputation as a historically iconic destination.

Tetra Tech has developed a productive working relationship with both the City's Engineering Department and the Port & Marine Services Department. These projects have allowed us to interact with and address the needs of many of your staff throughout the Building and Planning Departments. We see ourselves as an extension of your staff, as part of the same *One Human Family.* We look forward to further fostering these relationships to understand even better the City's operations, processes, and procedures to develop customized solutions.

Within Florida, Tetra Tech has a staff of over 800 professionals located in over 25 offices. Over 50 towns, cities, and counties throughout the state of Florida have entrusted Tetra Tech with similar contracts for on-call services. Tetra Tech continues to serve these municipalities with multiple contract renewals because we produce results year after year. Tetra Tech's team is eager to work immediately with the City and deliver successful projects. Mr. Stuart McGahee, PE, located in our Stuart, Florida office, will serve as the Client Contact and Program Manager. Mr. McGahee has a diverse pool of resources to draw upon from senior level experts to up-and-coming graduate engineers providing the right balance for budgets and technical demands.

We appreciate the opportunity to submit this statement of qualifications for the City's consideration to select Tetra Tech as one of your professional engineering consultants. We request using the same terms we have in our past MSA. Our entire team is committed to serving as an extension of the City's staff, and we look forward to continuing to bring our years of experience, local knowledge, and dedication to quality service to the City of Key West.

Sincerely,

Brian Proctor
Vice President, Southeast Operations Manager

Tetra Tech, Inc.
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1. Firm Background

1.1 Company Profile

For more than 50 years, Tetra Tech, Inc. (Tetra Tech) has provided turnkey environmental engineering and coastal engineering services to federal, state, and local government and commercial industries that contribute to managing and redeveloping lands. These environmental engineering services have been provided to property owners, prospective buyers, investors, lenders, environmental insurers, municipalities, and other government agencies. Tetra Tech performs cost-effective and timely investigation, remediation, regulatory activities, and construction management necessary to achieve the goals of our clients on both small- and large-scale projects impacted from past use. Tetra Tech can work with you and your development plans to determine the best approach for clean-up and, in many instances, conduct investigation and clean-up concurrent with site development.

Tetra Tech has provided coastal and offshore services to help our clients and the communities they serve improve and protect coastal and marine resources for over half a century. Our coastal and civil engineering staff is versed in appropriate technologies, regulatory matters, and project management to address all forms of waterfront infrastructure projects that may occur in Key West. Our in-house scientific and hardhat divers provide us with a distinct advantage for coral resource mapping, underwater infrastructure evaluation, and other project-related tasks. Our expertise extends from the coastal zone to the deep ocean, where our researchers and engineers conduct biological field sampling, navigational assessments, geophysical surveys, and modeling analyses to safely manage operations at ports and offshore.

Past Performance for the City of Key West

Since 2015, Tetra Tech has provided the City of Key West with environmental engineering and coastal engineering services for over 75 task orders for projects within the City limits. Figure 1 depicts some of those efforts over the last 5 years, the majority of which have been successfully completed with a few currently ongoing.

Figure 1. Project Location Map

1. College Road Sampling
2. Bahama Village
3. Bight Piling Assessment
4. KOTS Phase 1 and DEO Grant Support
5. Bight SLL MO\od
6. Angelfish Pier Structural Assessment
7. Garrison Bight
8. Wickers CRAS
9. Ferry Terminal Seawall Assessment
10. Key West Landfill
11. Live Aboard Seawall Inspection
12. 111 Olivia Street
13. Charter Boat Row
14. Schooner Floating Docks
15. Mallory Square Seawall
16. Angelfish Pier
17. Fire Station Number 3
18. "A" Dock Replacement

Tetra Tech staff has developed a solid working rapport with City staff and is committed to seeing the City through to its goals for Environmental Engineering and Coastal Engineering initiatives. We understand the value of responsiveness and strive to be as communicative and accessible to the City as possible. Tetra Tech has a proven record of advocating for the City's interests, obtaining timely jurisdictional authorizations for City projects, and of keeping our deliverables on schedule. We are also pleased to report that a substantial percentage of our projects have been delivered under budget.

Past Performance for the Naval Air Station, Key West

"Contractor has made major strides in improving overall performance goals and meeting timeline within budget. The quality of work is produced and executed in a professional manner with minimal errors. Lines of communication between the Navy and contractor POC are responsive to all aspects of the project."
– NAVFAC SE

Tetra Tech has been providing support to the U.S. Navy through comprehensive long-term environmental U.S. Navy contract at bases throughout the north and southeast United States. As part of that contract, since 1997, Tetra Tech has provided a suite of environmental and remedial services to protect the human health and environment at Naval Air Station (NAS) Key West and its former properties. We have executed over $20 million of contracted task orders to assess; investigate; clean up; restore; and reduce the former and current operational areas, properties, and land parcels used by the U.S. Navy at NAS Key West. We are consistently ahead of schedule and below budget on every task order issued by the U.S. Navy. The U.S. Navy has consistently evaluated our performance as either excellent or good and our project managers receive recognition and recommendations on their management of projects.

Tetra Tech has worked closely with the U.S. Navy to remove or mitigate environmental risks and restore former U.S. Navy properties to potential and current use for the City of Key West. A few examples of our past performance are the investigative work that led to the release of Poinciana Housing Complex to the City of Key West. Through these actions, additional low-income housing was deeded to the City of Key West. Tetra Tech also performed all the investigative work that led to the release of the Hamaca Hawk Missile Site, which was also deeded to the City of Key West and was used to house homeless veterans and now is used as a paintball recreational park. Tetra Tech performed all investigative and remedial actions at the intersection of Caroline and William Streets to determine the impact of a fuel line leak from Trumbo Point Tank Farm and the former Tank Island. Through our work, we were able to clear the site through the Florida Department of Environmental Protection (FDEP) and restore the intersection to operational status.

Tetra Tech performed all the original investigative work at Truman Annex, Trumbo Point, Fleming Key, and Dredgers Key (Sigsbee Annex). It was through this work that several parcels of land (DRMO, Parcel K, Parcel E, Buildings 102, 103, 104, 136, and 223) were deeded to the City of Key West; current environmental sites are being treated or monitored; and the footprint of NAS Key West is being reduced, thereby adding land and resources to the City of Key West. For 23 years, Tetra Tech has worked diligently to help the U.S. Navy, and in part the City of Key West, restore or maintain environmental sites for future use.

1.2 Environmental Engineering

Tetra Tech specializes in environmental and coastal engineering with significant experience in environmental science and engineering, including assessment of risks to human health and the environment, site investigation and remediation services, and real estate development services as well as permit preparation and preparation of bid and proposal documents.

Our recognized leadership in environmental analysis reflects the combined experience of technical staff with expertise in more than 50 scientific and engineering disciplines. Our reputation has been built on the analytical strength of our environmental reports—we produce technically defensible documentation that stands up to both public and legal scrutiny.

Contaminated Site Investigation and Remediation Services

Based on over 50 years of experience working for government and private clients throughout the State of Florida, Tetra Tech has developed a keen understanding of the contamination problems in the state as well as the regulatory framework for investigation and remediation. On behalf of the FDEP, Tetra Tech has assessed and/or remediated 80+ hazardous waste and drycleaning sites in Florida and brought 47 of these sites to regulatory closure. In addition, under contract with the FDEP, Tetra Tech has completed assessment and remedial activities at 24 Targeted Brownfields Sites and 12 Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Investigations.

Site History Reviews

Tetra Tech recognizes the complexity of site assessments, where sources and potentially responsible parties may be unknown. We bring the preliminary assessment experience necessary to support the development of a practical assessment approach. We start a site history review by subcontracting with an environmental database search firm, such as Environmental Data Resources, Inc., to perform a search of their database system for regulatory agency listings typically used for Phase I Environmental Site Assessments (ESAs) in general accordance with the procedures described in the ASTM Standard E-1527-16 for a parcel of commercial real estate with respect to the range of contaminants within the scope of CERCLA (42 U.S.C. §9601).

Tetra Tech recently completed a literature review and a Phase I/II ESA for the City of Key West for the Bahama Village as part of a redevelopment for the Truman Annex.

Hydrogeological Investigations

Tetra Tech Leadership and Experience

Tetra Tech provides outstanding leadership and experience in all of the following aspects of the site investigation process:

- General Site Information
- File Review and Interviews
- Data Collection
- Geophysical Surveys
- Site Reconnaissance
- Database and GIS
- Aerial Photography
- Air Monitoring
- Soil, Sediment, Surface Water, and Groundwater Sampling
- Pathway Analysis and Multi-Media Transport Modeling
- Source Characterization and Release Potential
- Risk-Based Site Prioritization

Tetra Tech recognizes that implementing remediation and receiving Site Rehabilitation Completion Orders is the end goal for all sites and that proper site characterization is the foundation for successful remediation. During site assessments, Tetra Tech will not only focus on the primary goal of defining the nature and extent of contamination, but will also be mindful of collecting information to support secondary goals such as determining the risk of pollutants to receptors, identifying responsible parties, and facilitating remedial design. Our mission during this task is to obtain as much site information as necessary to carry the site through the closure process and to accomplish the characterization task in a cost-effective and timely manner.

Engineering Evaluation, Engineering Design, and Cost Assessment of Remedial Options

Recognizing that the ability to quickly evaluate potential remedial alternatives is critical to successful remediation, we have completed hundreds of detailed feasibility studies nationwide in the past 5 years, including completion of streamlined remedial alternatives evaluations for the FDEP.

One of Tetra Tech's strengths is that we can use our extensive construction management and remediation experience to the City's benefit by preparing constructible and biddable remedial designs. Occasionally, the simplest solution prevails. For the petroleum contaminated portion of the College Road Affordable Housing Project, Tetra Tech prepared a Voluntary Source Removal Work Plan (VSRWP) for the City. To address the source area contaminated soils the selected remedy has been determined to be a limited soil excavation. The purpose of this VSRWP was to provide detail on the excavation remedy implementation and achieve the site clean-up goals of Residential Direct Exposure and Leachability-based Soil Cleanup Target Levels (SCTLs) per Chapter 62-777, F.A.C. The FDEP approved the VSRWP 30 days after submittal.

Remedial System Construction Oversight and Resident Project Representative Services

In addition to providing self-performed turnkey remediation services, Tetra Tech recognizes that we may be tasked to provide construction oversight of activities provided by other contractors. We have this experience through years of providing successful construction oversight on remedial system installations for the FDEP at 26 dry cleaning and waste clean-up sites in Florida.

Industrial Hygiene Services

Our staff of certified industrial hygienists and industrial hygiene technicians are skilled in providing a full range of industrial hygiene services ranging from qualitative and quantitative sampling and exposure assessments to developing, implementing, and evaluating comprehensive industrial hygiene programs.

Our service capabilities in this area includes:

- Workplace Occupational Health Evaluations
- Air Sampling and Analysis
- Ventilation Surveys
- Personal and Work Area Exposure Assessments
- Personal Protective Equipment Evaluations
- Hazard Control Evaluations
- Noise Monitoring and Control
- Hearing Conservation Programs
- Indoor Air Quality Evaluations
- Expert Witness Services

Health and Safety Compliance

Tetra Tech is committed to a strong safety environment demonstrated in not only corporate philosophies but in actions. Our comprehensive subcontractor safety management process ensures low safety performance risk and results in subcontractor performance which meets or exceeds the City's accident program expectations. This is further demonstrated by our own Experience Modification Ratio and days away from work injury incidence rate as outlined below:

- Tetra Tech's current (2024) Workers Compensation Experience Modification Ratio is 0.47.
- Tetra Tech's 2024 Lost Workday Incident Rate is 0.12, which is 66 percent below the industry average.
- Tetra Tech has driven over a million miles with our Florida fleet of full-size Ford and Chevrolet four-wheel-drive crew cab pick-up trucks without a significant incident.
- Tetra Tech has thousands of hours of on-the-water time in Florida within the past 10 years without a significant incident. Boats include a 26-foot Sea Cat, an 18-foot Twin Vee, a 14-foot airboat, powered skiffs, and Jon boats.

Laboratory Compliance

Tetra Tech does not operate an analytical laboratory as part of its Florida operations, instead subcontracting with National Environmental Laboratory Accreditation Program-certified laboratories. The following subsection presents a general outline of typical laboratory quality control (QC) protocols and requirements. Laboratory QC requirements may, depending on analytical method, include the following:

- Method blank
- Laboratory control spike (LCS)
- Surrogate compounds
- Internal standards
- Matrix spike (MS)/matrix spike duplicate (MSD)
- Interference check sample (ICS) and
- Laboratory duplicate sample

Asbestos and Lead Based Paint Management Services

Asbestos surveys will be completed as per the "Asbestos Hazard Emergency Response Act", the industry-wide procedure for performing asbestos surveys. Lead-based paint surveys will be performed following the protocols stated in "HUD Guidelines for the Evaluation and Control of Lead Based Paint Hazards in Housing."

In 2023, Tetra Tech conducted a Lead Base Paint Assessment and Asbestos Surveys at 111 Olivia Street for the City. Paint samples were analyzed for lead using a flame atomic absorption spectrometer. Tetra Tech and its wholly owned subsidiary, Ardaman and Associates, conducted an asbestos assessment.

A total of 60 samples were collected. Samples were collected from throughout the building and consisted of floor tile with mastic, drywall, plaster, and concrete block walls with stucco, 2-foot-by-2-foot ceiling panels, and various roofing materials. None of the samples detected asbestos above 1 percent. Tetra Tech also performed testing for the City for lead-based paint and asbestos at the Cable Huts and Fire Station Number 3.

Underground Storage Tank Site Services

Florida Department of Environmental Protection Petroleum Contamination Site Cleanup Services

Under this program, Tetra Tech completed over 200 Site Assessment Reports involving soil gas surveys, soil borings, and installation of monitoring wells to define the horizontal and vertical extent of soil and groundwater contamination. Tetra Tech also prepared over 50 Remedial Action Plans covering technologies such as free product removal, soil removal, soil venting, vapor extraction, air sparging, groundwater extraction and air stripping, bio augmentation and biostimulation, natural attenuation, and chemical oxidation.

Since 2018, Tetra Tech has been providing remediation services to NASA Kennedy Space Center to clean up legacy waste including chlorinated solvents, per- and polyfluoroalkyl substances (PFAS), and petroleum. This included installation of an air sparge system for groundwater clean-up, installation of a pump-and-treat system for chlorinated volatile organic compound (CVOC)-contaminated groundwater, and dewatering associated with dig-and-haul operations for PFAS treatment.

Spill Prevention Control and Countermeasure Plans for South Florida Water Management District Pump Stations and Field Stations

The South Florida Water Management District (SFWMD) tasked Tetra Tech to support preparation of Spill Prevention Control and Countermeasure (SPCC) plans for 40 pump stations and 3 field stations. Tetra Tech ensured that each SPCC plan clearly addressed the following three areas: operating procedures that prevent oil spills; control measures installed to prevent a spill from reaching navigable waters; and countermeasures to contain, clean up, and mitigate the effects of an oil spill that reaches navigable waters.

Real Estate Development Support Services

Tetra Tech has performed a variety of real estate due diligence projects over the last 5 years, which include Phase I and II ESAs. Tetra Tech currently provides real estate due diligence services across Florida to support the energy generation industry. These include wetland delineations, listed species surveys, agency coordination including the State Historic Preservation Office, and Phase I and II ESAs. Last year alone, Tetra Tech completed no fewer than 500 real estate transaction due diligence projects for major utilities to permit and construct much-needed infrastructure upgrades and improvements.

1.3 Coastal Engineering

Our full-scale coastal engineering services include design and engineering of marinas, piers, seawalls, groins, revetments, shoreline stabilization, bridges, coastal processes modeling, beach design, and beach renourishment. Tetra Tech was originally founded as a coastal engineering firm in 1966 and has since retained the value and importance of this specialty engineering service . Our coastal engineering professionals, coupled with our other service disciplines that are necessary for the successful execution of projects constructed in or near the marine environment, have provided exemplary service to numerous local, state and federal government clients throughout the past 50-plus years. Our skilled staff, from entry level engineers and scientists to our senior engineers, understand the complexities of working in the coastal setting, and yet adhere to the principles and practice necessary to result in a successful end product. Tetra Tech maintains a roster of professional scientific divers and hard hat divers to efficiently service needs such as coral mapping, relocation, infrastructure assessment, and construction repairs.

Tetra Tech's local engineering and science staff, located in our Miami, West Palm Beach, Orlando, and Stuart offices, have extensive experience working in Florida's unique marine ecosystems. This staff provides a full range of engineering and environmental design services in support of tasks to be assigned under this contract. Our local staff possess the necessary task leadership experience described in the Request for Qualifications.

We have blended outstanding basic core competencies of engineering, planning, and permitting with some unique and specialized service offerings. Our team brings expertise in the following areas:

Full-Scale Engineering Design

Tetra Tech offers specialized civil, structural, and geotechnical engineering to address navigational and shoreline protection needs, listed below. Often, the projects involve large-scale construction work such as creation of breakwaters and sheltered harbors, navigable waterways or floodwalls, and levees. Other times, the need may be to resolve large loads and movements associated with berthing of ships or restraining offshore platforms.

Engineering

- Coastal and Marine Engineering
- Shoreline Stabilization Projects
- Waterway and Canal Dredging
- Coastal and Shoreline Protection Design
- Structural Engineering
- Land Development Planning and Permitting
- Geotechnical Engineering
- Parks Planning, Engineering and Permitting
- PE Diving Services
- Terrestrial and Hydrographic Surveys

Outreach

- Active Public Outreach
- Passive Educational Programs

Permitting

- Florida Department of Environmental Protection (DEP) Permitting (ERP and JCP)
- FFWCC and U.S. Coast Guard Waterway Marker Permitting
- U.S. Army Corps of Engineers (USACE) Permitting
- National Oceanic and Atmospheric Administration (NOAA)/ Florida Keys National Marine Sanctuary (FKNMS) Permitting
- State and Federal Government Liaison
- Local Government Permitting

Biological

- Estuarine Ecology
- Benthic Surveys and coral relocation
- Wetland Delineations
- Mitigation Planning and UMAM Assessments
- Seagrass and Aquatic Habitat Restoration
- Water Quality Sampling and Analysis
- Electronic Data Collection and Instruments

Tetra Tech merges its marine structures design capability with coastal and hydraulic engineering knowledge to design the following:

- Flood gates and navigation locks
- Piers/bulkheads
- Wharf/quays
- Dolphins and mooring cells
- Fendering and bollards
- Pile anchorage
- Mooring line systems
- Dockside infrastructure
- Rail and bridge structures

From master planning to assistance with obtaining project permits, Tetra Tech offers a full range of planning and regulatory support to port and industrial clients around the world. Tetra Tech's planners, scientists, public involvement facilitators, engineers, and operation specialists work together as a team to provide a comprehensive and innovative approach to the master planning process.

> **"I was very impressed by the breakwater habitat islands – I've never seen a proposal with such a well-designed net environmental benefit before; you really did a great job."**
>
> *Alexis Meyer, NOAA – NMFS Protected Resources Division*

These professionals bring both international and domestic experience to planning projects. We are experienced in development of greenfield and brownfield sites and expansion of existing port facilities and waterways. Tetra Tech has a thorough understanding of the importance of integrating the requirements of marine facilities, structures, environmental standards, and mitigation requirements with community-driven concerns that are often a part of the planning process.

Our expertise in all areas of work required in port, cargo terminal, and waterfront development makes us well qualified to assist public and private sector clients with their master planning and related facility development needs including, for example, the following:

- Strategic Port Plans
- Feasibility Studies and Market Analysis
- Port Master Plans
- Site and Facility Plans
- Terminal Development Projects
- Environmental Impact Studies
- Permitting Support
- Security Planning
- Uranium Detection

Permit Preparation

Tetra Tech will lead the overall effort and coordination in permitting with open and regular communication by the Team with the City, FDEP, USACE, NOAA/FKNMS and federal/state commenting agencies. Our permitting leads have decades of experience in preparing and processing environmental resource permits. As previous key employees of

FDEP, these individuals were responsible for implementing the very programs that the City of Key West will need to navigate in order to achieve their redevelopment goals. Tetra Tech's permit leads have successfully used their skills and past experiences to receive permits from both the FDEP and the USACE for similar projects. The keys to successfully permit any coastal project is to understand the processes for permit review and approval and rules that guide those processes and to have positive working relationships with agency permit application reviewers. Tetra Tech has the unique privilege of having these with their current in-house staff.

Ms. Christa Razem of the City of Fort Pierce expressed thanks and gratitude that the Tetra Tech team, especially Dick Czlapinski, who were able to negotiate expeditiously with the FDEP to gain the Sovereign Submerged Lands authorization to construct the 13-acre island project. "The City was jubilant that Tetra Tech had flipped FDEP from a NO, to a definite maybe, and there is a clear path forward."

The following permits and consultations are typically required for construction waterward of mean high water, or the restoration of dune systems and replenishment of beach land mass seaward of the current mean high-water line (MHWL) or established Erosion Control Line:

a. **A Joint Coastal Permit (JCP) filed with the FDEP Bureau of Beaches and Coastal Systems**: This permit allows the placement of sand seaward of the current MHWL as will be required for any beach nourishment activities regardless of sand source or method of delivery. Dune restoration will not require a JCP for the deposition of sand unless dredged from a navigable waterway. Additionally, any source of marine sand material will require to be permitted under the JCP. In the event that dune restoration material is acquired from an upland source, it is likely that a separate Coastal Construction Control Line permit will be required for those activities.

b. **An Individual or Nationwide Permit request filed with USACE**: The issuance of this federal permit typically follows successful authorization of the JCP. Under the current regulatory process, the USACE recognizes and accepts the JCP application as a unified mechanism for review and approval of an Individual Permit. Coordination with the appropriate USACE regulatory branch, located in Miami, will be essential to timely processing of the proposed project application and initiation of consultation with the various federal agencies including, but not limited to, the U.S. Fish and Wildlife Service (USFWS), National Marine Fisheries Service, and U.S. Environmental Protection Agency.

c. **Coastal Zone Management Act (CZMA) Consistency Determination, USFWS and National Marine Fisheries Service (NMFS) Section 7 Consultations, and NMFS Essential Fish Habitat Assessments:** These consultations will be required in order for commencement of planned land restoration activities that might impact the habitat of any state or federally protected marine or terrestrial species. Based on the team's experience with similar projects, one aspect of the JCP process is a Coastal Zone Management Act consistency determination that will be issued before FDEP authorization for project implementation will be issued. This process is integrated into the review process operating independently of, through the Florida State Clearinghouse, the technical and environmental review and coordination conducted by the FDEP. The team will also coordinate with the appropriate federal resource protection agencies (NMFS – Miami, West Palm Beach, and St. Petersburg, and USFWS – Vero Beach) responsible for listed species protection.

d. **State Historic Preservation Office (SHPO) Consultation:** This consultation is required to identify the potential impacts to known or suspected areas of cultural resources of significance. Cultural resource evaluations and SHPO coordination will not likely be required for the beach and dune restoration aspects of the project. However, because of the unique nature of offshore borrow source development, it is expected that the magnetometer and related remote sensing techniques customarily undertaken as part of the SHPO project review and impact assessment process of offshore borrow sources will be undertaken by SDI.

Bidding Services

Tetra Tech's professionals will coordinate with the City in the preparation of the construction documents, incorporating the final approved plans and specifications, the standard and special conditions of regulatory permits, and the City's contract documents. The Team will also assist the City by participating in pre-bid meetings and addressing questions on the plans and specifications that may arise during the contractor bid process. The team will review contractor bid packages and provide selection recommendations to the City based on qualifications, cost, and value. The entire process will be designed to acquire the best qualified contractor at the most economical price.

Additionally, when choosing from subconsultants to service the City's projects, Tetra Tech seeks multiple quotes to ensure the best value to the City.

Construction Administration

During the Construction Phase, Tetra Tech will serve as the Engineer-of-Record and provide the expertise for specialized construction administration services including:

- *General Administration of Construction Contract*: In general, Tetra Tech shall consult with and advise the City, act as the City's representative, and issue all of the City's instructions to the Contractor.
- *Visits to Site and Observation of Construction*: Tetra Tech, using qualified personnel, will conduct regular visits to the project site to observe and document the progress of construction and document contractor compliance with the project permit conditions, plans, and specifications.
- *Defective Work*: During such visits and on the basis of such observations, Tetra Tech may disapprove of or reject Contractor work while it is in progress if we believe that such work will not produce a completed Project that conforms to the Contract Documents or that it will prejudice the integrity of the design concept of the Project as reflected in the Contract Documents.
- *Interpretations and Clarifications*: Tetra Tech shall issue necessary interpretations and clarifications of the Contract Documents and in connection therewith prepare work directive changes and change orders as required.
- *Applications for Payment*: Tetra Tech will review, assess and make recommendations relative to applications for payment from the Contractor.
- *Contractor's Completion Documents*: Tetra Tech shall receive and review reports by the Contractor to fulfill permit conditions and the Contract Documents.
- *Project Certification*: As the Engineer-of-Record, Tetra Tech shall prepare and submit the final project certifications including as-builts and other associated permit specific condition requirements from Federal, State and Local Governments.

1.4 Project Experience

The following pages present our relevant experience on environmental engineering and coastal engineering projects similar to the scope of work described in the Request for Qualifications.

Charter Boat Row – Surveying, Utility Coordination, Engineering, Benthic Assessments, and Environmental Permitting | Florida

Client Name	City of Key West	**Awarded Project Contract**	$300K (design), $3M (construction)
Client Representative	Karen Olson	**Consultant's Representative**	David Frodsham, PE Francisco Martinez, PE
Client Address | Phone #	201 William Street, Key West, FL 33040 | 305.809.3803	**Consultant's Address / Phone #**	759 FS Federal Highway 1 Stuart, FL 34994| 772.781.3400
Professional Services	2023-Present		
Construction Services	TBD	**Award Amount**	$168,918
Key Personnel Involved:	David Frodsham, PE; Stuart McGahee, PE; Francisco Martinez, PE; Becky Serra, PE; Pat Zuloaga; Nicole Goldy, PEIT		

Tetra Tech, along with our subconsultant (Florida Keys Land Surveying), assisted the City of Key West Port and Marine Services to perform Topographic and Bathymetric Surveying, Preliminary Engineering and Utility Coordination, Engineering Design for Permitting, Benthic Assessment, Prepare Permit Applications, and Process Permit Applications for replacement of approximately 970 linear feet of the Charter Boat Row Seawall located at the City Marina in Garrison Bight along Palm Avenue Causeway in Key West.

Bahama Village 3.2 Soil Investigation – Phase I/II Environmental Assessments | Florida

Client Name	City of Key West	**Awarded Project Contract**	$88,667
Client Representative	Albi Balleu, Steve McAlearney	**Consultant's Representative**	David Frodsham, PE
Client Address | Phone #	1300 White Street, Key West, FL 33040 | 305.809.3962	**Consultant's Address / Phone #**	759 S. Federal Highway, Suite 314, Stuart, FL 34994 | 772.781.3440
Professional Services	2021-2022		
Construction Services	2021-2022	**Award Amount**	$88,667
Key Personnel Involved:	Shawn Ouellette, PG; David Frodsham, PE; Francisco Martinez, PE		

In 2020, Tetra Tech completed a Phase I ESA investigation to support a redevelopment of a 5.57 acres mixed use parcel. The property was identified as 918 Fort Street in Key West in the Truman Annex. The BRAC 5-year Review Report

indicated that earlier work had removed contaminated material and land-use controls put in place including groundwater use restrictions. The parcel formerly housed building 223 used by the U.S. Navy. In 2016, the FDEP issued a Memorandum of Decision for No Further Action which released the Residential Restriction for the top 2 feet of soil and Notice Requirements. Notably, Area F or Site B located on the target property still maintains an engineering control for soils ("Do Not Disturb Soils") in the denoted 45-by-5-foot area due to an excavation bottom sample that maintained exceedances after the 2007 IRA event.

In March 2021, as part of the Phase II investigation, four soil borings were installed inside the delineated area by Tetra Tech. Three of the four soil borings were measured below the SCTL for Arsenic. One soil sample, SB-2, had a reported Arsenic concentration of 2.4 mg/kg, which is above the Residential soil SCTL of 2.1 mg/kg. Based on this exceedance, SB-2 was resampled in May 2021, and the results confirmed the prior results with a level of 2.6 mg/kg. Additionally, step out locations were installed to the north, south, east and west of SB-2R. The step out locations indicated the north and south borings above SCTLs with concentrations of 3.6 mg/kg and 9.5 mg/kg. In order to delineate the extent of the arsenic present on site in December 2021, Tetra Tech took six soil borings with a hand auger in accordance with FDEP standard operating procedures and sent the samples off to Jupiter Laboratory for processing followed by an additional 50 soil borings to be screened with an XREF field portable analyzer.

City of Ft Pierce Island Breakwaters and Marina Reconstruction – Assessments, Design, Permitting, Bid Support, and Construction Administration Services | Florida

Client Name	City of Fort Pierce	**Awarded Project Contract**	$5M (design), $18.8M (Island Construction), $11M (Marina CMS)
Client Representative	Dean Kubitschek	**Consultant's Representative**	Stuart McGahee, PE, Brian Proctor
Client Address | Phone #	1 Avenue A Fort Pierce, FL 34950 | 772.464.1245	**Consultant's Address / Phone #**	759 S Federal Highway 1, Stuart, FL 34994 | 772.781-3400
Professional Services	2005 – Present		
Construction Services	2011 – 2015	**Award Amount**	$12,500,000
Key Personnel Involved:	Stuart McGahee, PE, Gerardo Contreras, PE; Brian Proctor, Georgia Vince; Patrick Zuloaga; Rebecca Serra, PE; Francisco Martinez, PE		

Tetra Tech was selected to design, permit and perform construction management services, including Construction Engineering Inspections (CEI) for the City of Fort Pierce Marina and Storm Water Protection Islands.

In the fall of 2004, the City of Fort Pierce marina was completely destroyed by Hurricanes Frances and Jeanne. The marina comprises a boat basin of 21 acres and is a vital component of the City's waterfront redevelopment efforts. The City retained Tetra Tech to handle the design and permitting of the reconstruction and expansion of the City of Fort Pierce Marina, as well as temporary facilities to protect the interior marina while the outer marina and its associated wave protection components are constructed.

Tetra Tech has designed an island breakwater system to provide wave and current protection for the marina. The protection system includes an artificial island complex that will serve as a first line breakwater system and will include mangrove plantings, tidal lagoon features and an artificial reef area. The island system will also involve the beneficial reuse of dredged material. The design of the islands incorporated hydrodynamic modeling, field data collection and sampling, turbidity modeling, and a scaled physical model to ensure the island design would withstand a 100-year storm. The development and approval of this project required close coordination with FEMA, USACE, and FDEP, and provided significant regulatory challenges. CEI services for the project including weekly underwater inspections, above water surveys, reviewed work plans, RFI's, acceptance reviews and meetings with the City and consultants performing the activities including the seagrass, mangrove, and dune vegetation mitigation components. Tetra Tech successfully reduced and eliminated change orders during the implementation of the Fort Pierce Marina and Storm Protection Islands project. This was achieved by ensuring a shared vision with the City of Ft. Pierce, the design engineer and the various contractors working on the project. Weekly team meetings were held to address issues and to ensure the scope of work and level of effort were understood by all parties. The weekly meetings provided all parties the opportunity to clarify the expected scope, schedule and budget, thus ensuring all parties met the scope, schedule and budget. Through a value engineering exercise, Tetra Tech was able to provide $1 million in cost savings for the City of Ft. Pierce. Following construction completion, Tetra Tech assisted the City with 5 years of performance monitoring and permit compliance to assist the City of Fort Pierce with meeting the projects intended purpose.

Florida Department of Environmental Protection Consolidated Contract | Sites Throughout Florida

Client Name	FDEP	**Awarded Project Contract**	$5M (design), $5M (construction)
Client Representative	Dean Cox	**Consultant's Representative**	Shawn Ouelette, PG
Client Address | Phone #	2600 Blair Stone Road, Tallahassee, FL 32399 | 850.245.2118	**Consultant's Address / Phone #**	759 S. Federal Highway, Suite 314, Stuart, FL 34994 | 772.781.3409
Professional Services	1996 – 2022		
Construction Services	1996 – 2022	**Award Amount**	$20,000,000 (Lifetime total)
Key Personnel Involved:	Shawn Ouellette, PG; Mike Jaynes, PE; Jessica Endicott; Francisco Martinez, PE		

Tetra Tech is responsible for coordinating, managing, and supervising the implementation of site assessments and remedial actions at 61 drycleaning and 19 orphaned hazardous waste sites. The original contract was for 6 years with two 1-year options, both of which the FDEP exercised. The second contract was for 5 years with a single 5-year option, which the FDEP exercised. The third 10-year contract started in February 2011. Tetra Tech was awarded more than 990 Task Assignments (work orders) and 690 change orders to date for over $20 million. Additionally, Tetra Tech received site closure at 45 facilities through active remediation, monitored natural attenuation, and no further action. The drycleaning and waste site work is on an accelerated schedule with treatment system installation to be completed within 1 year of the site assignment. To expedite contamination assessment work, direct-push technology is used in conjunction with on-site mobile labs for soil assessment, groundwater plume delineation, and monitor well installation. In addition, data is collected for determining each site's propensity for natural attenuation. Remedial action activities have included bench scale testing, pilot study design, remedial action plans, waste management, plans and specifications, site demolition, bulk soil removal, soil vapor extraction systems, in-situ chemical oxidation system design and implementation, in situ bioaugmentation and biostimulation, and site restoration. Site Rehabilitation Completion Orders have been issued on remediated sites. We prepared Quality Assurance Project Plans, Work Plans, Health & Safety Plans, Site Assessment Reports, Background Studies, Remedial Alternative Evaluations, Interim Source Removal Work Plans, Remedial Action Plans, and Construction Completion Reports.

DNAPL encountered at 50' below ground surface at Celebrity Cleaners

Environmental Services MSA – Remediation. Phase I and II, Assessment and Source Removals | Florida

Client Name	City of Casselberry, FL	**Awarded Project Contract**	$25K Annually
Client Representative	Kelly Brock, Public Works Director	**Consultant's Representative**	Carl Stephens, PE
Client Address | Phone #	95 Triplet Lake Drive Casselberry, FL 34707 | 407.262.7725	**Consultant's Address / Phone #**	8008 South Orange Avenue, Orlando FL 32809 | 407.855.3860
Professional Services	1980 – Present		
Construction Services	TBD	**Award Amount**	$1,000,000
Key Personnel Involved:	Carl Stephens, PE; Doug Dufresne, PG; Valerie Davis, PG; Kathryn Minter		

Ardaman and Associates, Tetra Tech's wholly owned subsidiary, has been providing environmental engineering and remediation services to the City of Casselberry for over 40 years. These services include asbestos surveys for the former police station, petroleum site assessment and monitoring at the water treatment plant, and Phase I and II assessment at 539 Queens Mirror Circle and 4275 S US 17-92. Additional services included lead-based paint surveys, indoor air quality sampling, mold surveys and remediation, and assessment and source removal of contaminants at the former fire station. Ardaman has also provided these services to the City of Key West.

Brickell Bay Drive Improvements – Surveying, Engineering Design, and Permitting | Florida

Client Name	City of Miami	**Awarded Project Contract**	RFQ No. 18-19-042
Client Representative	Carlos E. Ortega, PE, Stormwater Program Manager - Consultant	**Consultant's Representative**	Diana Santander, PE
Client Address | Phone #	444 SW 2nd Avenue, 8th Floor, Miami, FL 33130 305.416.1267	**Consultant's Address / Phone #**	6303 Waterford District Dr., Suite 305, Miami, FL 33126
Professional Services	March 2021 – Present		
Construction Services	TBD	**Award Amount**	$2,450,000
Key Personnel Involved:	Mauricio Posada, PE; Diana Santander, PE ; Erin Hague, CEP; Carol Hufnagle, PE		

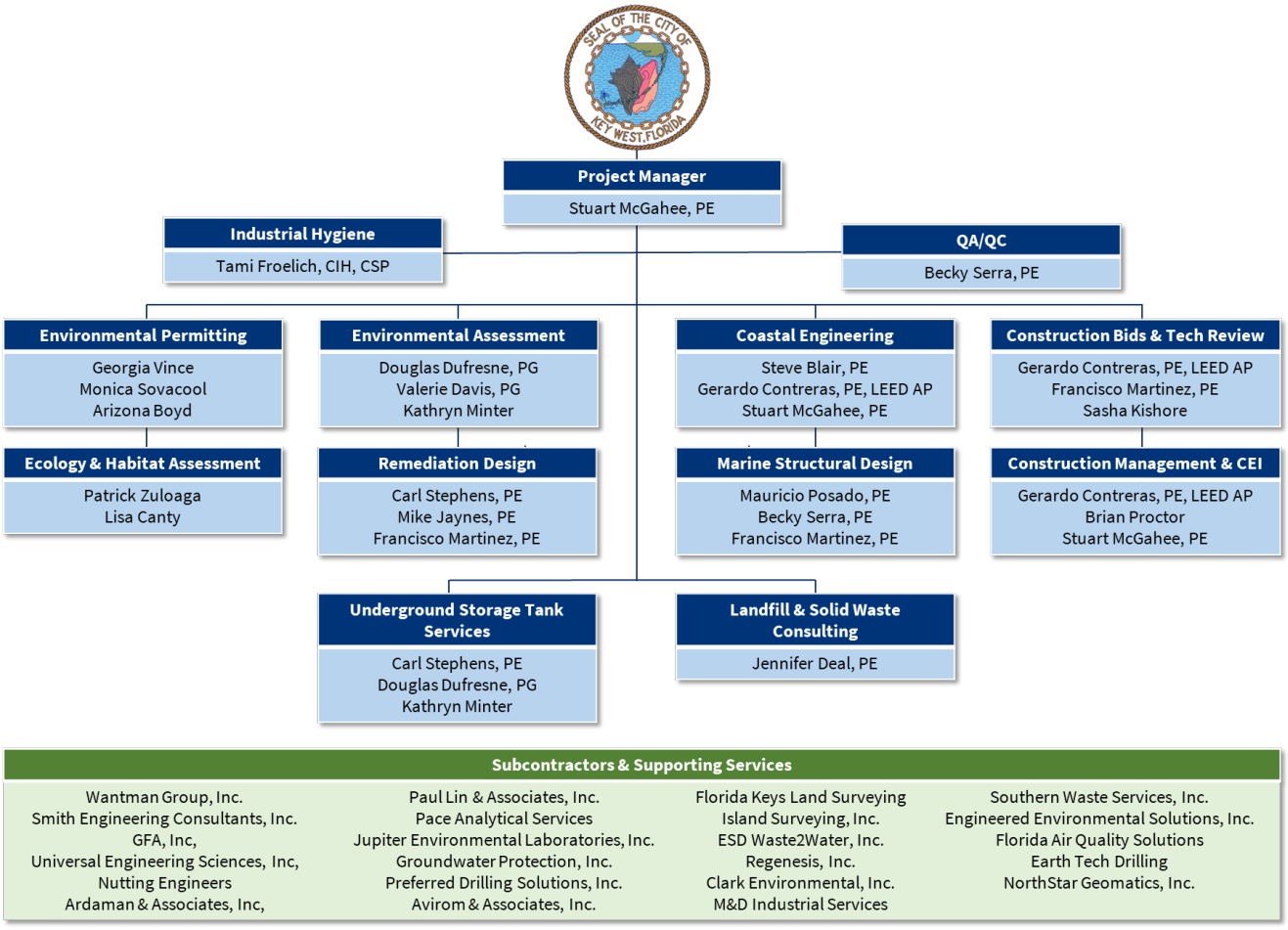
Tetra Tech was contracted by the City of Miami to provide the interdisciplinary services necessary to complete a Design Criteria Package (DCP) that encompasses all necessary documents required for advertising a Design/Build RFP solicitation. The DCP includes documentation for the design-build reconstruction of a 1,500-foot seawall and a two-lane roadway; development and coordination of architectural standards for pedestrian, recreational, and vehicular waterfront access and passive contemplative areas; an enhanced bay walk/linear park, and bicycle path; and innovative urban, architectural, and/or engineering measures to mitigate the effects of natural hazards through green, blue, and gray infrastructure.

2. Personnel

2.1 Project Team Organization and Key Personnel Qualifications and Responsibilities

Figure 2 illustrates our proposed project team organizational chart. Others may be assigned as needs arise.

Figure 2. Organizational Chart



Key Personnel	Project Role	Project Responsibilities
Stuart McGahee, PE	Project Manager	Project management and civil engineering design
Steve Blair, PE	Coast Engineering Lead	Water resources/coastal engineering design
Mauricio Posada, PE	Marine and Structural Lead	Marine structural engineering design
Gerardo Contreras, PE	Construction Management and CEI Lead	Coastal engineering and construction management support
Francisco Martinez, PE	Project Engineer	Civil/coastal engineering support
Becky Serra, PE	QA/QC	Quality assurance oversight
Doug Dufresne, PG	Environmental Assessment Lead	Hydrogeologic assessment
Carl Stephens, PE	Remediation Lead	Remedial design
Georgia Vince	Regulatory Lead	Permitting leadership and support
Brian Proctor	Operations Lead	Operational support to Team/Client Services
Jennifer Deal, PE	Landfill & Solid Waste Consulting Lead	Landfill design
Tami Froelich, CIH, CSP	Health and Safety Lead	Health and safety support
Patrick Zuloaga	Ecology & Habitat Assessment Lead	Benthic resource surveys and permitting support

Brief qualifications of each of the key staff members that will be assigned to support the City through work orders for Environmental Engineering Services are described below. One-page resumes for each are provided under Appendix A.

Stuart McGahee, PE | Project Manager

Stuart, a graduate of the University of Florida, has 30 years of experience in Florida as a Licensed Professional Civil Engineer. He served as Project Manager for the reconstruction of the City of Ft Pierce Marina Docks from 2014-2015. From 2015-2020, Stuart served as Project Manager of the Key West Environmental Engineering contract and worked to complete numerous projects for the City including NOAA seawall, Half Shell Raw Bar Seawall, and the Restoration of Rest Beach.

Steve Blair, PE | Coastal Engineering Lead

Steve has over 34 years of experience in managing large water and environmental programs. He has served as a technical expert on a wide range of projects involving surface and groundwater hydrology, watershed assessment, environmental damage mitigation and restoration, water and water and wastewater infrastructure planning, design and construction. Steve has extensive experience with coastal projects including living shorelines, shoreline armoring and resiliency efforts.

Mauricio Posada, PE | Marine and Structural Lead

Mauricio is a senior structural engineer with 24 years of experience providing civil, structural, and marine engineering solutions for the industrial, commercial, oil/gas, and maritime industries. Mauricio has worked in analysis, design, rehabilitation, and detailed engineering for many structural projects, including ports, waterfront structures, flood control, foundations, piers, dolphins, bulkheads, and platforms. Mauricio is proficient in the design of steel, aluminum, and concrete structures. His experience also includes seismic engineering and lifting/rigging analysis/solutions.

Gerardo Contreras, PE | Construction Management and CEI Lead

Gerado is a civil engineer with more than 34 years of experience. This experience includes engineering projects supporting several industries such as energy, mining, environmental, and transportation. Gerardo is exceptionally well qualified and proactive in adapting to the latest technologies to improve project execution, including the use of 4D design, smart drawings, and simulations. Gerardo has gained considerable construction experience from various assignments that include Owner Representative, Field Engineer, and Construction Manager. Gerardo's construction experience covers a multidisciplinary scope focused on civil, structural, electrical, and communications, which includes on-site assessments of facilities, field inspection, QA/QC, site acceptance, and field oversight roles.

Francisco Martinez, PE | Project Engineer

Francisco has over 10 years of experience working with structural and environmental components across various sites in Florida. Some of the work performed has included production and review of design and construction plans and specifications, inspection of environmental impacts on sites, inspection of structures to determine repair requirements, project site visits to monitor construction activities, and meeting with current and potential clients and subcontractors. Other duties performed include writing reports summarizing work performed/to-be-performed on a project, and checking on material production and testing procedures. As part of inspecting construction activities, he has had to document all work done, confirm the accuracy of the construction activities with the plans, and prepare/present reports to project managers, clients, and contractors in order to facilitate the completion of all required project activities.

Becky Serra, PE | QA/QC

Becky has more than 41 years of work experience in Florida in the analysis, design, and permitting of water management aspects (surface water, water use and dewatering) and environmental impacts of large and small surface water management systems for transportation, agricultural, residential land development, golf courses, industrial/commercial, mining, municipal, and utilities projects. Becky is routinely involved in the preparation of engineering studies, surface water management design, best management practices, water control structure design, surface water modeling, wetland mitigation and preservation, permit applications and permit processing with various government agencies; and coordination with landowners, developers, land planners, environmental scientists, hydrogeologists, and various government agencies. For the past 10 years, Becky has served as Project Manager for field inspections (above water and underwater) of over 465 water control structures for the SFWMD, prepared SPCC plans for pump stations and port facilities, and provided engineering support and QA support for numerous projects.

Doug Dufresne, PG | Environmental Assessment Lead

Doug has provided professional geological and hydrogeological services to municipalities, water and wastewater utilities, engineering companies, and private industry for over 36 years. Services he provided include geological and hydrogeological studies, groundwater flow modeling, contaminant transport modeling, groundwater level monitoring, groundwater quality monitoring, water resource assessment, water use permitting, well and wellfield design, well construction services, aquifer performance testing, alternative water supply planning, aquifer storage and recovery, deep injection wells, environmental site assessments, and expert witness services. He has presented and published nearly 40 technical papers at several regional, national, and international conferences on various hydrogeological topics.

Carl Stephens, PE | Remediation Lead

Carl is responsible for preparing proposals, planning projects, coordinating field sampling and analytical testing programs, reducing and evaluating data, preparing technical reports for environmental projects, and reviewing technical reports prepared by environmental professionals. He is also responsible for training and instructing engineers and field technicians on sampling techniques and environmental studies. In addition, he manages the Orlando Office Drilling Department. Carl has prepared and/or reviewed over 1,000 Phase I and Phase II ESAs, as well as over 250 Petroleum Storage Tank Closure Reports. He has served as Project Manager on numerous contamination assessments, remedial action plans, and site remediation projects.

Georgia Vince | Regulatory Lead

Georgia has over 22 years of experience with regulatory and permitting programs for state, federal, and local levels of government, including Sovereign Submerged Lands, Joint Coastal Permitting, Environmental Resource Program, Coastal Zone Management reviews and Section 404 permitting for large and small projects including linear pipelines, ports and offshore construction projects. Georgia's experience also includes Section 106 Consultation, wetland delineations, wetland mitigation, wetland restoration, environmental assessments, National Environmental Protection Act (NEPA) Analysis, and threatened and endangered species biological assessments.

Brian Proctor | Operations Lead

Brian has 29 years of experience in land stewardship, natural resources management, wetland ecosystems, and natural areas restoration with a particular emphasis on restoration planning, permitting and implementation. He currently serves as the Operations Manager for Florida overseeing contract management, project financial performance to schedules, scopes, and budgets. He has been the responsible person in charge of designing, permitting, planning, and implementing a diverse array of upland and wetland restoration projects. His experience includes delineation, assessment, and restoration planning and monitoring of inland and coastal resources for both upland and wetland habitats. Brian was the project manager overseeing the construction and implementation of a $20 million island breakwater system in the Indian River Lagoon during which he oversaw 5 years of post-construction performance monitoring.

Jennifer Deal, PE | Landfill & Solid Waste Consulting Lead

Jennifer has 22 years of experience as an engineer and project manager in the environmental field, including, regulatory compliance assistance, report preparation, client management, regulatory agency interaction, technical design, and quality assurance. She has 10 years of experience conducting project quality assurance reviews for commercial projects in Florida. Jennifer has 16 years of experience managing multi-disciplinary projects, primarily for solid waste management facilities, assessment, and remediation projects. She has performed project quality reviews for Work Plans, Contamination/Site Assessment Reports, State and Local Permit Applications and Supporting Documentation, Construction Quality Assurance Plans and Technical Specifications, Solid Waste Master Plans, Proposals/Contracts, General Regulatory or Client Correspondence, Phase I/II ESA Reports, Remedial Action Plans, Remediation Summary Reports, and Construction Progress Reports, among others.

Tami Froelich, CIH, CSP | Industrial Hygiene Lead

Tami is a Certified Industrial Hygienist (CIH) and Certified Safety Professional (CSP) with over 30 years' experience. Tami also holds a Master's Degree in Public Health (MPH), Occupational Health & Safety Management. Her extensive industrial hygiene and safety experience includes overseas safety lead for over 22 countries, training supervisor, and air monitoring/sampling equipment technical representative.

Patrick Zuloaga | Ecology & Habitat Assessment Lead

Patrick possesses over 17 years of experience in aquatic ecology including marine, estuarine, and freshwater systems. His professional experience has focused on the management, integration, and performance of aquatic habitat restoration, expert testimony, and NEPA compliant documents. Patrick has extensive field experience with ecological studies for aquatic habitat monitoring, characterization, mapping, assessment, rare / threatened / endangered species surveys, remedial investigations, Stream Condition Index calculations, Vegetative Index of Wetland Condition calculations, and sediment characterization. Patrick has led field efforts on a variety of large-scale restoration projects for clients such as SFWMD, National Park Service, FDEP, USACE, ,and a variety of private clients. Patrick has conducted more than 1,000 dives in support of scientific projects. Additionally, Patrick performed benthic resource and coral mapping/relocation for projects in the Key West Bight and the Key West Aquarium.

2.2 Qualifications of Engineering Personnel

Table 1 contains a list of the Key Personnel proposed for the Environmental Engineering Services Contract and their qualifications.

Table 1. Names, Job Classifications, and Qualifications of Staff

Name	Job Classification	Qualifications	Florida PG/PE License	Location	Availability
Stuart McGahee, PE	Senior Engineer	Civil/Coastal Engineer	57536	Stuart, FL	80%
Steve Blair, PE	Senior Engineer	Water Resources Engineer	83121	Stuart, FL	50%
Tami Froelich, CIH, CSP	Health & Safety	MPH, CSP, CIH	N/A	Richland, WA	10%
Rebecca Serra, PE	Senior Engineer	QA/QC, Hydrology	35624	Stuart, FL	30%
Gerardo Contreras, PE	Senior Engineer	Coastal / Structural	66381	Coral Springs, FL	60%
Mauricio Posada, PE	Senior Engineer	Marine Structural	69521	Jacksonville, FL	60%
Francisco Martinez, PE	Engineer	Civil/Coastal Engineer	86702	Stuart, FL	70%
Carl Stephens, PE	Senior Engineer	Environmental Engineer	53221	Orlando, FL	50%
Doug Dufresne, PG	Senior Geologist	Hydrogeologist	1527	Orlando, FL	70%
Jennifer Deal, PE	Senior Engineer	Solid Waste Engineer	58592	Orlando, FL	50%

2.3 Certifications

Tetra Tech holds Certificates of Authorization as a Florida Engineering Business (No. 2429) and as a Florida Geology Business (No. GB311). In addition to the Tetra Tech employees listed above, other employees hold certifications in scientific and commercial diving, surveying, and industrial hygiene. Furthermore, almost all of our employees hold CPR/First Aid, OSHA Hazardous Waste Operations and Emergency Response (HAZWOPER) certifications.

Table 2. Staff and Services Matrix

Personnel	Environmental Engineering	Remedial Services	Industrial Hygiene Services	Underground Storage Tank Services	Real Estate Development Support	Planning Services	Design Services	Permitting Assistance	Bid & Proposal Development Services	Services During Construction/Remediati	Coastal Engineering & Design	Surveying & Coastal Assessments	Coastal Permitting
Stuart McGahee, PE	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓
Tami Froelich, CIH, CSP		✓	✓	✓		✓		✓					
Rebecca Serra, PE	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓
Steve Blair, PE					✓	✓	✓	✓	✓	✓	✓	✓	✓
Gerardo Contreras, PE					✓	✓	✓		✓	✓	✓	✓	✓
Mauricio Posada, PE						✓	✓		✓				
Francisco Martinez, PE	✓	✓				✓	✓	✓	✓	✓	✓	✓	✓
Carl Stephens, PE	✓	✓	✓	✓	✓		✓		✓	✓	✓		
Doug Dufresne, PG		✓		✓	✓			✓		✓			
Valerie Davis, PG				✓	✓					✓			
Jennifer Deal, PE	✓	✓	✓		✓	✓	✓	✓	✓	✓			

3. Experience, Qualifications, and References

Tetra Tech's experience, qualifications, and references are provided in Sections 1 and 2. Contacts listed for each project under Section 1.4, and provided below, are whom you may contact for references.

Charter Boat Row – Surveying, Utility Coordination, Engineering, Benthic Assessments, and Environmental Permitting
Karen Olson | City of Key West | 305.809.3803

Bahama Village 3.2 Soil Investigation – Phase I/II Environmental Assessments
Albi Balleu, Steve McAlearney | City of Key West | 305.509.3962

City of Fort Pierce Island Breakwaters and Marina Reconstruction – Assessments, Design, Permitting, Bid Support, and Construction Administration Services
Dean Kubitschek | City of Fort Pierce | 772.464.1245

Florida Department of Environmental Protection Consolidated Contract
Dean Cox | FDEP | 772.464.1245

Brickell Bay Drive Improvements – Surveying, Engineering Design, and Permitting
Carlos E. Ortega, PE, Stormwater | City of Miami | 850.245.2118

4. Approach and Methodology

4.1 Proposed Management Approach

Tetra Tech's organization for this contract, which is presented in the above sections, is designed to be flexible to allow the integration of project-specific needs. The Project Manager will have ultimate responsibility for communication with the City, while individual Task Managers will be responsible for technical content, quality, and adherence to schedules and cost performance for Tetra Tech and its subcontractors. The Project Manager is the single point of contact between Tetra Tech and the City of Key West. The Project Manager will be supported by Technical Leads assigned to a specific expertise that will support the Project Manager as needed.

Technical Leads will report directly to the Project Manager and are responsible for the day-to-day management of staff resources in the execution of the deliverables. Our Project Manager has specialized experience in managing projects of similar size and scope to those anticipated under this contract. In addition to the personnel noted, Tetra Tech has a resource pool of more than 390 experienced Project Managers with a proven track record to rely on.

Tetra Tech's experienced QC Manager, Health & Safety Officer, and Contract Administrator will provide QC, Health & Safety, and contracting support, respectively, to Project Managers and Key Technical Support Staff, as required for each project. The QC Manager will ensure that corporate and program quality assurance procedures for laboratory analysis and design are followed in all assignments. The Health & Safety Officer will provide the technical expertise necessary to ensure that all activities are conducted in a responsible manner with respect to health and safety. All of the requisite infrastructure (management/technical policies and procedures, management information systems, contract administration policies and procedures, health & safety program, and training) necessary to ensure staff proficiency are in place.

Tetra Tech recognizes that this is an environmental and coastal engineering contract with Work Orders requiring a variety of skills and manpower. To support this contract, Tetra Tech brings key staff that have direct or comparable experience committed to helping the City succeed. This group is further supported by an extensive staff of nearly 800 employees in Florida, in addition to support staff company-wide. The availability of key personnel will be balanced with the City's requirements and has the capacity to fluctuate (increase or decrease) over time as project load changes. Tetra Tech is committed to providing Project Managers, discipline leads and other required support staff to meet any assignment and workload requirements.

QA/QC for Small, Medium and Large Projects

Tetra Tech will integrate quality management vertically throughout the project team by a systematic, multi-tiered process that permeates both the attitude of team members and the management of the processes used to execute any Work Order. A quality control and assurance plan will be prepared for each scope of work that documents efforts to ensure quality deliverables followed by a review process to assure that the plan was implemented correctly.

Coordination with City Staff and Other Governmental and Private Stake Holders

The City operates in an arena of continual evolution with respect to issues and challenges, public policy and regulation, funding constraints and opportunities, and stakeholder interests. This includes constant pressure to achieve its growing mission with fewer resources. Tetra Tech will support the City's objectives by making the following partnering commitments:

- Close and continuous communication with City and project management staff to identify and adjust to priorities.
- On-site, informal technical exchanges to discuss lessons learned, new ideas, and technology transfer opportunities.
- Participation in City Council meetings, public meetings, and workshops to stay informed regarding the City's priorities and challenges.
- Proactive integration of stakeholder involvement to identify, alleviate, and remove potential roadblocks, and find synergies and win-win opportunities.

Once a Work Order is received by Tetra Tech, the partnering efforts continue via involvement of our Project Manager, Stuart McGahee, PE, who will serve to ensure close and informed coordination among all project stakeholders. This process creates a shared vision to ensure all parties understand and agree with the Scope of Work as authorized. This will include providing the Work Order team with historical background for the assignment, and leading refinements to meet the City's needs. During Work Order implementation, the Project Manager will maintain weekly contact on Work Order status with the City for feedback and to ensure overall satisfaction. This partnering approach will continue through closeout of the Work Order to foster continuous improvement.

5. Sworn Statements and Affidavits

Tetra Tech's completed and signed forms are provided under Appendix B.

Appendix A. Resumes

TETRA TECH

Stuart E. McGahee PE

Project Manager | Construction Management & CEI

EXPERIENCE SUMMARY

Stuart McGahee has over 28 years of work experience in Florida, Texas, and Alaska with 20 years as a professional engineer registered in the State of Florida. Experienced in the design and permitting of civil, agricultural, and coastal facilities within the jurisdiction of the South Florida Water Management District, St. John's River Water Management District, the USACE, the Florida Department of Environmental Protection, the Florida Turnpike Authority, the Florida Department of Transportation, and local agencies throughout South Florida and the Treasure Coast. Other work experiences include water, wastewater systems, watershed management, waste and material handling, on-farm agricultural operations management, agricultural equipment and implement design, agricultural structures design, placer and lode gold mining claim management, aggregate mining, and mine site reclamation.

RELEVANT PROJECT EXPERIENCE

Design of a Portable Generator to Service the Ferry Terminal Building and Fueling Systems, FL. Provided project management services to the City of Key West for the design, permitting, and construction services of an 80-foot pier extension with coupled fuel system and temporary power upgrades in Florida. Project was developed to service the ferry terminal building and fueling systems.

Aquarium Seawall Repair and Stabilization at Truman Waterfront, FL. Performed project coordination with the City of Key West and the Florida Department of Environmental Protection. Project required benthic resource surveys and mitigation to support the installation of a replacement basin seawall.

Mooring Pile Design at the Ferry Terminal, FL. Provided project management, engineering, and permitting services for the mooring system upgrades to the ferry terminal facility in the Key West Bight.

City of Key West, Truman Basin Seawall Replacement, Key West, FL. Project engineer for the coastal armoring improvement to a deep basin concrete seawall. Existing seawall replaced with tied-back, marine steel sheet pile wall to provide a cost-effective 25-year solution in a highly corrosive marine environment. The seawall was designed so that a portion was paid for by the City of Key West and a portion was paid for by the National Oceanic and Atmospheric Administration (NOAA). Portions of the seawall were owned by both. Other agencies involved in the seawall project included the U.S. Navy and the Florida Keys National Marine Sanctuary.

City of Key West, Half-Shell Bar and Restaurant Seawall Rehabilitation, Key West, FL. Project engineer for seawall upgrade to existing concrete gravity wall and utilities in Key West Bight. Project involved surveying and possibly relocating corals on the affected seawall. Existing concrete gravity wall needed to be cleaned and recapped with new thick concrete fascia and cap as necessary to extend the life of the wall and protect the adjacent restaurant.

City of Key West, Rest Beach Rehabilitation, FL. Project engineer for the design and permitting of approximately 800 linear feet of beachfront rehabilitation and armoring. Project required consultation with a surveyor and geotechnical engineer and the preparation of wave attack analysis to develop a suitable armoring strategy to protect the beach and the roadway behind. Site is a possible sea turtle nesting habitat and was designed and permitted accordingly.

EDUCATION

BS, Agricultural Engineering, University of Florida

MS, Engineering & Science Management, University of Alaska Fairbanks

AREA OF EXPERTISE

Design and Permitting of Civil, Agricultural, and Coastal Facilities

Land Development

Watershed Management

Waste and Material Handling

REGISTRATIONS/ CERTIFICATIONS

Florida Professional Engineer No. 57536

NCEES Record No. 49570

FDEP Statewide Storm Water Inspector #7299

ACOE Construction Quality Management Cert. #784

MCACES (MII) Basic Training Cost Engineering 2015

TRAINING

Basic Training for Cost Engineering; MCACES (MII); 2015

30-Hour Occupational Safety and Health; OSHA; 2009

OFFICE

Stuart, FL

YEARS OF EXPERIENCE

28

TETRA TECH

Tami Froelich, CIH, CSP
Industrial Hygiene

EXPERIENCE SUMMARY

Tami Froelich is a Certified Industrial Hygienist (CIH) and Certified Safety Professional (CSP) with over 33 years' experience. She also holds a master's degree in Public Health (MPH), Occupational Health & Safety Management from Tulane University. Her industrial hygiene and safety experience is extensive and includes overseas safety lead for over 29 countries, past president of the Pacific Northwest Section of the American Industrial Hygiene Association (PNS-AIHA), training supervisor, lead industrial hygienist for an ammonia manufacturing plant and air monitoring/sampling equipment technical representative. Her experience includes supporting sample analysis in an AIHA accredited laboratory and being the sole Pacific Northwest technical representative for a leading air monitoring/sampling equipment manufacturer. Since joining Tetra Tech in 1997, she has produced training courses, worked for clients at the Hanford site doing safety procedure writing and updating, and conducted IAQ investigations and industrial hygiene monitoring at a local hospital. She has supported the Idaho Spent Fuel project as the training coordinator and with design criteria for non-radiological air monitoring equipment. As the Design, Integration, Construction, Communication and Engineering for the Second Line of Defense Program (DICCE) Project's EHS Manager, she has been responsible for all aspects of safety, health, and security for overseas travelers working worldwide. Her DICCE support also includes construction subcontractor EHS oversight, auditing, training and evaluation. She currently supports all of the CES division of Tetra Tech (TtCES) as the safety, health and quality lead for the entire organization.

EDUCATION

MPH, Occupational Health & Safety, 2008

BA, Natural Science/Mathematics, 1996

AREA OF EXPERTISE

Occupational Health and Safety Management

Health and Safety Training Development and Coordination

Health and Safety Plan Review and Concurrence

CERTIFICATIONS

Certified Industrial Hygienist, ABIH, Number 9380, 2007

Certified Safety Professional, Number 23466, 2012

Certified Associate Industrial Hygienist, Number #2, 2001

RELEVANT TRAINING

40-hour OSHA Hazardous Waste Health & Safety Training and Refresher; 2005

First Aid/CPR Training; 2019

OSHA 30 Hour Construction Safety Training; 2007

Rad Worker II; Department of Energy; 2004

YEARS OF EXPERIENCE

33

RELEVANT PROJECT EXPERIENCE

Idaho Power Company, Boardman to Hemingway Transmission Line Project Phase II, OR/ID. CIH/H&S manager for Tetra Tech's contract to provide full environmental permitting for the project that spans multiple BLM districts, USFS forests, and city and county municipalities.

Tetra Tech CES Division, Nationwide. EHS Manager responsible for advice and training for health and safety to over 700 CES Division staff. Duties include OSHA recordkeeping, procedure writing, employee EHS training, medical case management, incident investigation, H&S plan writing and review, regulatory compliance, and technical oversight. She manages the implementation of the company's overall safety program that fosters employee involvement, continuous improvement, and application of lessons learned. Ensures site-specific H&S plan compliance with corporate and contract-specific H&S guidelines and federal and state regulations, emphasizing worker safety as Priority One. Conducts quarterly safety audits; monitors H&S performance; and promotes proactive approaches to prevention.

Confidential Client, Mountain Valley Pipeline, VA and WV. CIH/H&S manager for the development of an approximately 303-mile, 42-inch-diameter natural gas pipeline in 17 counties in West Virginia and Virginia. Reviewed and approved site-specific Accident Prevention Plan (APP) and associated Site Safety and Health Plan (SSHP) for field activities; and performed project audits for conformance to safety requirements.

U.S. Postal Service, Facilities Environmental Services, Western Region. Provide industrial hygiene reviews of proposed asbestos abatement/removal projects. Work with the USPS's subcontractors in refining their asbestos abatement plans to bring them in to compliance with federal regulations and the USPS's additional requirements. These plans also include specifics for compliance with transport, disposal and environmental permitting regulations (local, state and federal).

TETRA TECH

Rebecca Serra, PE

QA/QC | Marine Structural Design

EXPERIENCE SUMMARY

Becky Serra has more than 41 years of work experience in Florida in the analysis, design, and permitting of water management aspects (surface water, water use and dewatering) and environmental impacts of large and small surface water management systems for transportation, agricultural, residential land development, golf courses, industrial/commercial, mining, municipal, and utilities projects. She is routinely involved in the preparation of engineering studies, surface water management design, best management practices, water control structure design, surface water modeling, wetland mitigation and preservation, permit applications and permit processing with various government agencies; and coordination with land owners, developers, land planners, environmental scientists, hydrogeologists, and various government agencies. She is familiar with the USACE regulatory processes and regulators in Florida including the Florida Department of Environmental Protection (FDEP), South Florida Water Management District (SFWMD), Saint John's River Water Management District (SJRWMD), Southwest Florida Water Management District (SWFWMD) and numerous local agencies and 298 drainage districts throughout South Florida. In addition, for the past 10 years, she has served as Project Manager for field inspections (above water and underwater) of over 465 water control structures for the SFWMD and provided engineering support and QA support for numerous projects.

EDUCATION

BS, Agricultural Engineering, Michigan State University, 1980

AREA OF EXPERTISE

Water Management

Water Resources

Structure Inspections

SPCC Plans

REGISTRATIONS/ CERTIFICATIONS

Professional Engineer, FL, Number 35624, Earned 1/1/85

TRAINING

40-hour HAZWOPER; 2011

8-Hour HAZWOPER Refresher Course; 2021

Advanced Stormwater Modeling; 1982

Basics of Dredging I; 2011

Basics of Part 58 Environmental Review for HUD-Assisted Projects; 2013

Engineers Guide to Corrosion-Causes, Protection and Control, 2021

OFFICE

Stuart, FL

YEARS OF EXPERIENCE

41

RELEVANT PROJECT EXPERIENCE

United States Coast Guard, Waterfront Inspections, Duval, Brevard, and Volusia Counties, FL. PM and Lead Inspection Engineer for the United States Coast Guard FY16 Waterfront Inspections of the following three facilities: Station Mayport (Jacksonville, Duval County, FL), Station Ponce De Leon (Volusia County, FL), and Station Port Canaveral (Brevard County, FL). Services included review, inspection, evaluation, and reporting of existing conditions (topside and underwater).

South Florida Water Management District (SFWMD), Structure Inspection Program, District Wide, FL. Project Manager and Lead Inspection Engineer for the underwater field inspection, data collection, deficiency cataloging, and reporting involving 465 water control structures (culverts, gated culverts, spillways, weirs, boat locks, and pump stations) for the SFWMD. Inspections aid the SFWMD in identification of structure deficiencies and generate recommendations for corrective actions to improve structure operation. Required to perform inspections and supervise Tetra Tech staff as well as multi-disciplinary team including diving, alligator security and subcontractors.

Loxahatchee Mitigation Bank, Palm Beach County, FL. Senior Water Resource Engineer for period of record wetland hydroperiod analysis for both the North and South areas within the 1,254-acre Loxahatchee Mitigation Bank. Performs analysis to determine compliance with FDEP permit conditions and success criteria regarding periods of inundation (time duration), and depths of inundation (minimum/maximum/optimum).

SFWMD, C-43 Reservoir, LaBelle, FL, Engineering & management support for J-Tech (Joint Venture: Tetra Tech & Jacobs) Construction Inspectors & Quality Assurance and Control Requirements Manager preforming the construction inspections and Quality Assurance activities for the construction of the above ground 10,700-acre SFWMD C-43 Reservoir Project (Packages #2, #3 & #4). Lead Inspection engineer for underwater inspections associated with on-site QA activities.

TETRA TECH

Georgia Vince
Environmental Permitting

EXPERIENCE SUMMARY

Georgia Vince has 26 years of experience with water resource planning projects; regulatory and permitting programs including state, federal, and local levels of government; Section 404 permitting; Section 408 authorizations; Section 7 and Section 106 Consultations; Section 203 studies; National Environmental Protection Act (NEPA) analysis; and threatened and endangered species biological assessments. She has held the position of Deputy Project Manager for the J-Tech Engineering Contract for the past 10 years. In her role, she has overseen projects from planning, design, permitting, and through construction management. These projects include water quality studies, planning projects with the U.S. Army Corps of Engineers, and water conveyance and water storage projects including projects identified in two of the Governor of Florida's Executive Orders. Georgia was previously responsible for permitting and compliance activities related to the Comprehensive Everglades Restoration Project (CERP) through coordination with planning, engineering, construction, and operation divisions of the South Florida Water Management District as the local sponsor for the federal project.

EDUCATION

BS, Biological Oceanography, Florida Institute of Technology, 1993

AREA OF EXPERTISE

Water Quality Studies

Federal, State, and Local Environmental Permitting

Coastal Management

Wetland Delineations

Section 203 Studies

Project Management

TRAINING

Florida Wetland Delineation and Hydric Soil Identification Training; 2008

OFFICE

Stuart, FL

YEARS OF EXPERIENCE

26

RELEVANT PROJECT EXPERIENCE

South Florida Water Management District (SFWMD), Lake Okeechobee Component A Reservoir (LOCAR) Feasibility Study, FL. Project Manager for the Section 203 Feasibility Study for LOCAR, a 200,000 acre-foot (ac-ft) aboveground storage reservoir to draw water from Lake Okeechobee when there is excess water in the system and send water to Lake Okeechobee during dry times. The purpose of the Feasibility Study is to document anticipated improvements to the quantity, timing, and distribution of water flows to help manage lake levels and improve lake ecology by detaining water during wet periods for later use in the dry periods and enhance water supply reliability to realize the benefits envisioned in the CERP. The Feasibility Study must conform to and be conducted under Section 203 of the Water Resources Development Act (WRDA), as amended, and other technical and policy compliant federal planning process methods. These include NEPA, Council on Environmental Quality (CEQ) regulations, and adherence to the guidance provided in U.S. Army Corps of Engineers (USACE) Environmental Regulations.

SFWMD, C-43 West Basin Storage Reservoir, Water Quality Feasibly Study (WQFS), FL. Project Manager for the C-43 WQFS, which was part of Governor DeSantis's 2019 Executive Order to evaluate alternatives to provide water quality improvement for pre-, post- or in-reservoir storage flows. SFWMD, Florida Department of Environmental Protection, and local governments have partnered to develop this Study to examine conventional and innovative biological, physical, and chemical technologies available and applicable to treating water entering and discharging from the C-43 WBSR or reducing potential algal biomass within the C-43 WBSR Responsibilities include reparation of multiple technical research reports for technology evaluation, oversee public meetings for stakeholder input, oversee subconsultant and general project management. Final Study completed October 2020.

Cypress Creek Floodplain Restoration, FL. Project manager leading efforts to restore the historic floodplain of Cypress Creek and restore dry season freshwater flows to the Northwest fork of the Loxahatchee River. The project includes water level, flow monitoring and field surveys to support the location and design of a water control structure to restore hydrology in the floodplain and reduce flashiness of flows downstream. The project includes hydrologic modeling, land surveys, civil design and state and federal permitting efforts.

TETRA TECH

Monica Sovacool
Environmental Permitting

EXPERIENCE SUMMARY

Monica Sovacool has more than 15 years of experience focused on permitting and ensuring compliance with federal, state, and local environmental project permitting requirements. Environmental compliance includes implementation of the State NPDES permits and Stormwater Pollution Prevention Plans as well as overall environmental compliance as it relates to the various federal, state and local levels of government. Environmental permits include Environmental Resource Permits (ERP), Sovereign Submerged Lands (SSL) authorizations, local government wetland/natural resource permits and USACE Section 404 and 408 permitting. As a former Florida Department of Environmental Protection environmental resource permitting program manager and compliance assurance program manager, she was responsible for coordinating permitting applications and enforcing compliance with regulations districtwide for the Environmental Resource Program and Coastal Construction Control Line program. In this role she was also responsible for interacting with the public, stakeholders, agencies, and consultants as needed regarding permitting and compliance with state and federal requirements, which included evaluating permitting submittals, mitigation plans and compliance inspection reports, making recommendations to expedite the permitting process and to ensure compliance with state requirements.

EDUCATION

BS, Environmental Science and Policy, University of South Florida, 2005

AREA OF EXPERTISE

Stormwater/NPDES

Environmental Permitting/Compliance

Project Management

TRAINING

Dale Carnegie Leadership Training for Managers; 2017

FDEP Stormwater, Erosion & Sedimentation Control Inspector Training; 2019

FEMA Basic Incident Command and Response Training; 2019

Wetland Delineation Training, Annual; Florida Department of Environmental Protection; 2008-2015

OFFICE

Stuart, FL

YEARS OF EXPERIENCE

15

RELEVANT PROJECT EXPERIENCE

Florida Power and Light Company, 500kV Rebuild Projects, Phases C, L & M, St. Lucie, Martin, Palm Beach, Broward, & Miami-Dade County, FL. Project Manager responsible for coordinating the daily environmental compliance inspections on each phase, including overseeing all aspects of environmental compliance as it relates to the federal, state and local government permits and environmental regulations.

Florida Power and Light Company, FL. Permitting Specialist to oversee local, state and federal environmental permitting, including preparing of permit applications, wildlife and habitat surveys, wetland delineation, cultural resources surveys, and all agency coordination related to the processing of permits for numerous transmission line hardening projects and construction/expansion of new and existing transmission lines across 17 counties in south Florida.

Florida Department of Environmental Protection, Southeast District Office, West Palm Beach, FL. As environmental resource permitting program manager, reviewed and managed staff review of a wide range of Environmental Resource Permits (ERPs) and Sovereign Submerged Lands (SSL) authorizations, including docks, marinas, wetland fill, dredging, transmission line corridors, utility crossings, power plants/substations, solar field projects, artificial reefs, and other various projects occurring in, on or over wetlands or other surface waters. Oversaw the timely issuance of permits, helping to streamline review where possible. Permitting program responsibilities included performing wetland delineations/verifications; applying the Uniform Mitigation Assessment Method (UMAM) or other appropriate mitigation assessment method; conducting site inspections for environmental assessments; reviewing construction plans, mitigation plans, and environmental data; preparing technical staff reports and letters; conducting pre-application meetings and meetings during the review process to assist consultants and applicants with developing and completing applications through the design-review process and coordinating the review of projects with other processing team members, as necessary. Evaluated permit applications to determine if they met the delegated USACE Standard Programmatic General Permit (SPGP). Worked with the appropriate Division staff to implement and streamline programmatic processes as a means of continuous process improvement. Engaged the ERP team in cross-training and process improvement activities.

TETRA TECH

Arizona Boyd
Environmental Permitting

EXPERIENCE SUMMARY

With more than 8 years of experience (private and regulatory) in the environmental industry, Arizona Boyd currently manages utility permitting efforts. These include site inspections, assessments, and documentation preparation for authorization at the County, State, and Federal levels. A biologist by trade, he has assisted with the completion of extensive projects across the contiguous United States. These included permitting, habitat restoration, wetland identification/verification, evaluation of flora ecophysiology, ecological monitoring, and environmental emergency management. Acclimated to South Florida, he can independently conduct fieldwork around hazardous wildlife and conditions. He also brings strong communication, collaboration, and time management skills to ensure that all goals are met in a thorough manner.

RELEVANT PROJECT EXPERIENCE

Florida Power & Light Company, Southeast FL. Conducts site inspections and assessments of specifically assigned projects, making permitting determinations, and preparing environmental assessment reports and/or permit applications for the projects. Also assists with application preparation and processing of Environmental Resources Permits through the Florida Department of Environmental protection (FDEP), Water Management Districts, and local agencies as well the United States Army Corps of Engineers throughout Florida. With his background at the FDEP, provides guidance to other staff in conducting wetland delineation determinations using methodology outlined in Florida Administrative Code 62-340.

West Palm Beach, FL. Implementing the State 404 Program and Environmental Resource Program (ERP) in accordance with Florida Administrative Code (F.A.C.) and Florida Statutes (F.S.). Routinely sought after for his expertise in wetland evaluation and identification.

WSP USA (prev. Ecology & Environment, Inc.), Wellington, FL. Ecological/vegetation monitoring of the Everglades, emergency environmental management, exotic flora surveying of the Everglades, wetland delineations across multiple states (including Florida), pore water sampling, utilizing GIS, biomass sampling & quality assurance/control. Assisted with & completed multiple projects across the country.

Lake Worth, FL. Removal and treatment of exotic flora, exotic surveying, and utilizing GIS. Mitigated the spread of invasive species in several natural areas.

North Palm Beach, FL. Removal and treatment of exotic flora, exotic surveying, herbicide usage reporting and utilizing GIS. Mitigated the spread of invasive species in several natural areas.

Boca Raton, FL. Exotic surveying, utilizing GIS, public outreach, & mentoring. Categorization of Tradescantia spathacea as a category-I on the 2019 FLEPPC plant list.

EDUCATION

BA, Biological Sciences and Certificates in Geographic Information Systems (GIS) and Environmental Science, Florida Atlantic University, 2018

AA, Biology, Palm Beach State College, 2016

AREA OF EXPERTISE

Wetland Delineation

Permitting

GIS

REGISTRATIONS/ CERTIFICATIONS

Florida Stormwater, Erosion, and Sedimentation Control Inspector Qualification, FL, # 49656, April 2022

FDEP Certified Wetland Evaluator, FL, July 2021 – July 2023

Commercial Pesticide Applicator License, FL, June 2019 – June 2023

TRAINING

HAZWOPER 40-Hour & Refresher for All Industries, Click Safety, September 2020 – February 2023

Lifetime Boating Safety Education, June 2014

OFFICE

Stuart, FL

YEARS OF EXPERIENCE

8

TETRA TECH

Patrick Zuloaga
Ecology and Habitat Assessment

EXPERIENCE SUMMARY

Patrick Zuloaga possesses over 21 years experience in aquatic ecology including marine, estuarine, and freshwater systems. His professional experience has focused on the management, integration, and performance of aquatic habitat restoration, expert testimony, and NEPA compliant documents. He has extensive field experience with ecological studies for aquatic habitat monitoring, characterization, mapping, assessment, rare/threatened/endangered species surveys, remedial investigations, Stream Condition Index (SCI) calculations, Vegetative Index of Wetland Condition (VIWC) calculations, and sediment characterization. He has served as an expert witness for National Park Service (NPS) and the United States Department of Justice (DOJ) in the capacity of a submerged aquatic vegetation (SAV) restoration expert. He has led field efforts on a variety of large-scale restoration projects for clients such as the South Florida Water Management District (SFWMD), National Park Service (NPS), Florida Department of Environmental Protection (FDEP, United States Army Corps of Engineers, and a variety of private clients. He has been the lead member of ecological teams that have conducted field work in numerous locations including Washington, Alaska, Florida, Florida Keys, Dry Tortugas, Hawaii, Bahamas, Grand Cayman, Puerto Rico, U.S. Virgin Islands (St. Thomas and St. Croix) and the Northern Mariana Islands (Tinian, Saipan, and Pagan).

EDUCATION

Various Coursework, University of Florida, 2004 - 2010

BS, Organismic Biology, Ecology, Florida Atlantic University, 2000

AREA OF EXPERTISE

Habitat Restoration

Wetland, Coral Reef, and Seagrass Studies/Restoration

NEPA Documentation

RTE Species Surveys

Aquatic Habitat Monitoring

Expert Witness

REGISTRATIONS/ CERTIFICATIONS

PADI Advanced Open Water Diver Certification, 5/1/93

TRAINING

HAZWOPER 40 Hour 29 CFR 1910.120, 2002

8-Hour OSHA Refresher Training, 2008

FFWCC Authorized Gopher Tortoise Agent

PRIMER 6 Multivariate Statistical Analysis Training, February 2009

OFFICE

Stuart, FL

YEARS OF EXPERIENCE

21

RELEVANT PROJECT EXPERIENCE

Coral Inventory and Benthic Resource Surveys, City of Key West, Key West, FL. Tetra Tech is working with the City of Key West (City) to collect the necessary survey data and prepare the construction documentation needed to facilitate the improvements of gravity-type seawalls located adjacent to the Half Shell Raw Bar and Turtle Krawls Restaurants in Key West, Florida. Tetra Tech is performing certified resource surveys during the permitting process and preparing written reports cataloging the resources and showing their position and size along the face of the existing walls. The results of the resource surveys will be presented to NOAA for comment and will be used during the permitting process with FDEP and the ACOE.

National Park Service (NPS), Everglades NP, Natural Resource Damage Assessments at Multiple Vessel Grounding Sites in the Florida Keys. Responsibilities for the assessment of injuries to this mixed seagrass/coral community include coordination with EVER staff to ensure agreement with project objectives and assessment methods, performance of a site visit to collect data on current site conditions, and preparation and implementation of an Assessment Plan. Specific assessment activities include determination and subsequent mapping of the injury area using a portable remote diver-directed device housing a Trimble® DGPS. The collected data are transmitted back to the work platform via telemetry; data are captured and processed using Hypack® software. In addition to mapping, physical descriptions of both the injury and reference areas are noted and photographically documented.

NPS, Biscayne National Park, No Name Shoal Seagrass Habitat Restoration, Homestead, FL. Project involves the restoration of seventeen seagrass injury sites within No Name Shoal in Biscayne National Park. Specific responsibilities include coordination with NPS, injury assessment, development of current site conditions report and Field Implementation Plan, development of and implementation of restoration techniques, and ensuring compliance with regulatory permits. Prior to restoration activities, led and participated in the collection of sediment core samples to evaluate the native sediments and find a suitable material for restoration implementation.

TETRA TECH

Lisa Canty
Ecology and Habitat Assessment

EXPERIENCE SUMMARY

Lisa Canty's professional experience with coastal ecosystems and freshwater wetlands is focused on the management of natural resources, including habitat assessments, restoration, mitigation, and monitoring. She is proficient at performing impact assessments and surveys of environmentally sensitive areas, including wetland, coral reef, and seagrass habitat, and presenting the results for preservation or restoration planning. Lisa has more than 10 years of experience performing with several ecological teams to assess, restore, and/or monitor coral reef and seagrass habitat in numerous locations throughout south Florida, Puerto Rico, and the Commonwealth of the Northern Mariana Islands. She has performed dozens of coral reef and seagrass restoration/monitoring projects for Biscayne and Everglades National Parks from 2006 to present. Previously, she worked for REEF Environmental Education Foundation monitoring reef fish populations in the Florida Keys and the U.S. Fish and Wildlife Service where she implemented a sea turtle monitoring program in the French Frigate Shoals, Northwestern Hawaiian Islands.

RELEVANT PROJECT EXPERIENCE

Coral Inventory and Benthic Resource Surveys, Key West, FL. Biologist supporting the City of Key West in collecting the necessary survey data to prepare the construction documentation needed to facilitate the improvements of gravity-type seawalls located adjacent to the Half Shell Raw Bar and Turtle Krawls Restaurants in Key West, Florida. Tetra Tech performed certified resource surveys during the permitting process and prepared written reports cataloging the resources and showing their position and size along the face of the existing walls. The results of the resource surveys were presented to NOAA for comment and used during the permitting process with Florida Department of Environmental Protection (FDEP) and the U.S. Army Corps of Engineers (USACE).

National Park Service, Coral Survey, Relocation, and Monitoring, St. Croix, U.S. Virgin Islands. Tetra Tech is working with the National Park Service to reduce the environmental impact of the proposed replacement of the Christiansted Wharf Bulkhead, including taking appropriate mitigation measures to relocate coral colonies to recipient sites outside the potential area of impact. Following guidance from the U.S. Virgin Islands Department of Planning and Natural Resources Coral Relocation Site Selection Criteria, Tetra Tech performed a recipient site survey to locate suitable habitat for relocation of the stony corals located on the bulkhead structure and adjacent bottomlands. The site assessment survey evaluated potential sites to determine if there is suitable substrate and sufficient habitat area to support corals to be relocated. Next steps include removing, relocating, and reattaching scleractinian corals from the existing bulkhead to the selected recipient sites prior to construction, 2) monitoring the recipient sites for continued protection of coral habitat, and 3) identifying resource protection areas (seagrass habitat) to protect those existing benthic communities, if necessary. The results of all surveys are being presented to National Park Service (NPS) Christened National Historic Site, National Oceanic and Atmospheric Administration (NOAA), and the U.S. Virgin Islands Department of Planning and Natural Resources for comment.

Various Clients, Central and Southern, FL. Performance of ecological field surveys including, wetland determinations/delineations, habitat assessment and threatened and endangered species surveys, for site development permit preparations.

EDUCATION

BS Bachelors, Marine Science, University of Hawaii, 2001

AREA OF EXPERTISE

Marine Ecosystems

Diseases Of Coral and Other Reef Organisms

Wetland, Coral Reef, And Seagrass Restoration

Scientific Diving

REGISTRATIONS/ CERTIFICATIONS

PADI, Advanced Open Water & Rescue Diver

FWC Licensed Gopher Tortoise Agent #GTA-13-00001

Florida Fish and Wildlife Conservation Commission, Prescribed Fire Techniques for Wildlife, 2007

TRAINING

Diseases of Coral and Other Reef Organisms; MOTE Marine Laboratory, 2009

DOT Employee Training Program, 2011

FDEP Wetland Delineation Training, 2008

FWC Licensed Gopher Tortoise Agency, 2012

OFFICE

Stuart, FL

YEARS OF EXPERIENCE

21

Ardaman & Associates, Inc.

Douglas P. Dufresne, PG

Environmental Assessment | UST Services

EXPERIENCE SUMMARY

Doug Dufresne has provided professional geological and hydrogeological services to municipalities, water and wastewater utilities, engineering companies, and private industry for over 36 years. Services he provided include geological and hydrogeological studies, groundwater flow modeling, contaminant transport modeling, groundwater level monitoring, groundwater quality monitoring, water resource assessment, water use permitting, well and wellfield design, well construction services, aquifer performance testing, alternative water supply planning, aquifer storage and recovery, deep injection wells, environmental site assessments, and expert witness services. He has presented and published nearly 40 technical papers at several regional, national, and international conferences on various hydrogeological topics.

EDUCATION

MS, Geology, University of Florida, 1988

BS, Earth Sciences, University of New Orleans, 1984

AREA OF EXPERTISE

Geological and Hydrogeological Studies

Groundwater Flow Modeling

Water Resource Assessment

REGISTRATIONS/ CERTIFICATIONS

Professional Geologist, Florida, No. 1527

Registered Professional Geologist, Georgia, No. 2008

Professional Geoscientist, Louisiana, No. 699

OFFICE

Orlando, FL

YEARS OF EXPERIENCE

36

RELEVANT PROJECT EXPERIENCE

Toho Water Authority, Kissimmee, FL – Cypress Lake Wellfield Production Wells CL-1 through CL-4. Project director for the project with a construction cost of $8.25 million, which includes preliminary design, production well design, bidding and award, field construction services, permitting, construction management, and testing. The wellfield includes the construction of three new Lower Floridan aquifer production wells each with a capacity of 2,740 gpm and modification of one Lower Floridan aquifer. The Lower Floridan aquifer production wells have well casings set at approximately 1,350 feet below land surface (bls) and total depths of 1550 feet bls. Testing includes well development, geophysical logging, video logging, step-drawdown testing, constant rate discharge testing, plumbness and alignment, and water quality.

City of Port St. Lucie, FL – Well F7 Evaluation, Testing and Rehabilitation. Project Director for the project with a construction cost of $247,000, which included hydrogeological services including review and analyses of existing water quality data, well pumping data, total wellfield pumping data, and original geophysical and video logging; well testing and remediation oversight; well testing and analyses including geophysical logging, flow logging, video logging, packer testing, aquifer performance testing, specific capacity testing, and water quality testing; and well remediation including back plugging the well, well acidization, well development, additional specific capacity testing, and final water quality testing after rehabilitation.

City of Palm Bay, FL – SJRWMD Consumptive Use Permit Ten Year Compliance Report. Project Director for the project, which included the hydrogeologic services related to review and analysis of all data required for submittal to the St. Johns River Water Management District regarding the City's consumptive use permit. The City's compliance for all 24 of the CUP conditions requiring submittals was determined, and a report summarizing the findings was prepared for submittal to the SJRWMD.

City of Sanford, FL – Hydrogeologic Consulting and Groundwater Modeling. Project Director for the project with continuing consulting hydrogeologic services, including groundwater flow modeling and contaminant transport modeling, regulatory meetings and presentations, hydrogeologic consulting involving the geologic and hydrogeologic components and processes, water supply assessment, water quality sample analyses, production well design, bidding and award services, well construction administration, well-drilling oversight, and well construction and testing observation. The observed testing and associated analyses included lithology, water quality sampling, well development, step-drawdown testing, constant rate discharge testing, geophysical logging, video logging, plumbness, and alignment testing, and preparation of a well construction summary report.

Valerie C. Davis, PG
Environmental Assessment

EXPERIENCE SUMMARY

Valerie Davis has provided professional geological and hydrogeological services to water and wastewater utilities, engineering companies, and private industry for over 27 years. She has provided a wide range of services, including geological and hydrogeological studies, groundwater flow and contaminant transport modeling, water use permitting, well and wellfield design, well construction services, aquifer performance testing, alternative water supply solutions, aquifer storage and recovery, deep injection wells, environmental site assessments, mining feasibility studies, and expert witness services. Additionally, she has prepared, calibrated, and executed numerous groundwater flow and contaminant transport models for projects related to well drawdown impact analyses, wellfield expansion, safe yield assessments, capture zone evaluations, effluent disposal, mounding analyses, landfill assessments, gypsum stack evaluations, system analyses, and expert witness testimony. These projects' computer groundwater flow and solute transport models include MODFLOW, Groundwater Vistas, MT3D, MODPATH, SEAWAT, and other numerical and analytical models.

EDUCATION

BS, Geology, University of Florida, 1994

AREA OF EXPERTISE

Geological and Hydrogeological Studies

Well Construction Services

Environmental Site Assessments

REGISTRATIONS/ CERTIFICATIONS

Professional Geologist, Florida, No. 2138

OFFICE

Orlando, FL

YEARS OF EXPERIENCE

27

RELEVANT PROJECT EXPERIENCE

North Regional Water Treatment Plant RO Master Plan Report, City of Palm Bay, FL. Senior Hydrogeologist for the City of Palm Bay project working to reduce surficial aquifer withdrawals. The City is working on the North Regional Water Treatment Plant Reverse Osmosis Master Plan to incorporate additional Upper Floridan aquifer (UFA) wells into the utility system. Ardaman is providing hydrogeologic services to assist in evaluating the historic and future water quality impacts resulting from the historic and proposed future pumpage. Services include investigating and evaluating hydrogeologic parameters and water quality for Palm Bay and surrounding utilities, assisting in wellfield operation scheduling, and updating and running the MODFLOW groundwater flow model and the SEAWAT solute transport model in Groundwater Vistas to estimate potential saltwater intrusion impacts based on initial phase expansion and final phase expansion of the Floridan aquifer wellfield. The modeling included multiple wellfield pumpage configurations for the 23 proposed UFA wells in North Regional and South Regional wellfields.

Groundwater Modeling for Consumptive Use Permit Renewal, City of Port Orange, FL. Senior Hydrogeologist for the project with hydrogeologic services, including groundwater flow modeling and impact analysis for the renewal of the City's Consumptive Use Permit. The modeling included simulating pumpage from 40 Upper Floridan Aquifer wells in two wellfields and evaluating drawdown, upconing, and MFL impacts using MODFLOW and SWUP models. Analyses also included wellfield management simulations for balancing a system with chloride-impacted wells.

IRREC – Groundwater Modeling for Water Use Permit Renewal. Senior Hydrogeologist and constructed a groundwater flow model using Groundwater Vista, to assist the University of Florida/IFAS in a permit renewal for a research facility in St. Lucie County, Florida. Constructed a groundwater flow model using Groundwater Vista to estimate drawdown and impacts from the requested irrigation allocation.

Hydrogeologic Consulting and Groundwater Modeling, City of Sanford, FL. Senior Hydrogeologist for the project with hydrogeologic services, including groundwater flow modeling and contaminant transport modeling, regulatory meetings and presentations, hydrogeologic consulting involving the geologic and hydrogeologic components and processes, water supply assessment, water quality sample analyses, production well design, bidding and award services, well construction administration, well-drilling oversight, and well construction and testing observation. The observed testing and associated analyses included lithology, water quality sampling, well development, step-drawdown testing, constant rate discharge testing, geophysical logging, video logging, plumbness, and alignment testing, and preparation of a well construction summary report.

Kathryn B. Minter

Environmental Assessment | UST Services

EXPERIENCE SUMMARY

Kathryn Minter has 27 years of experience on various environmental and geotechnical projects. She has worked on several field projects for the U.S. Army Corps of Engineers involving logging SPT and rock cores and overseeing the installation of monitoring wells and piezometers. Environmental projects include Phase I and Phase II environmental assessments, site assessments for petroleum contaminated sites, and subsurface soil explorations, including sinkhole investigations. She manages ecological assessments, contamination assessments, well installations, tank closures, and subsurface soil explorations. She has also conducted water budget analyses using the HELP model.

EDUCATION

BS, Geology, University of Florida, 1998

AREA OF EXPERTISE

Environmental

Geotechnical

Phase I and II Environmental Assessments

OFFICE

Orlando, FL

YEARS OF EXPERIENCE

27

RELEVANT PROJECT EXPERIENCE

- Contamination Screen Evaluation Report for Fairbanks Avenue from I-4 to Highway 17-92, Winter Park, Orange County, Florida
- Contamination Screen Evaluation Report Update for State Road 528 from East of Industry Road to East of Courtenay Parkway, Brevard County, Florida
- Contamination Screen Evaluation Report for Round Lake Road, Lake County, Florida
- Contamination Screen Evaluation Report for SR 500 (US 441) Resurfacing from Central Avenue to North of Bradshaw Road, Apopka, Orange County, Florida,
- Preliminary Contamination Assessment, Wickham Road, FDOT, Brevard County, Florida
- Contamination Assessment, Solvent Extraction Area, Uranium Recovery Plant, CF Plant City Chemical Complex, Hillsborough County, Florida
- Limited site assessment and remediation monitoring (since 2004), Orlando Regional Medical Center Site, Orlando, Florida
- Preliminary Contamination Assessment, Sanford Coastline Park, Sanford, Florida Tank Closure Assessment and Source Removal, Colonial High School, Orange County, Florida
- Contamination Screening Evaluation Report for Proposed Wabash Avenue Extension From Harden Boulevard to Ariana Street, Lakeland, Polk County, Florida
- Phase II Environmental Assessment, Site Assessment and Source Removal, Proposed Drugstore Site, Orange County, Florida
- Preliminary Contamination Assessment, Former Green Parrot Lounge, City of Orlando, Orange County, Florida
- Waste Exploration, Former Good Homes Road Landfill, Orange County, Florida
- Preliminary Contamination Assessment, Solvent Extraction Area, Uranium Recovery Plant, CF Plant City Chemical Complex, Hillsborough County, Florida
- St. Johns County Shore Protection Project, St. Johns County, Florida
- Nassau County Shore Protection Project, Nassau County, Florida
- Site Assessment, National Freight, Orange County, Florida
- Site Assessment, Park Manor Waterworks, Orange County, Florida
- Site Assessment, Sanlando Utilities-Wekiva Plant, Seminole County, Florida
- Phase I Environmental Assessments, Various Proposed Orange County School Sites, Florida
- Phase I Environmental Assessment, Morning Star Infant Daycare Facility, Clermont, Lake County, Florida
- Phase I Environmental Assessment, 1350-acre Property, Orange County, Florida
- Phase I and Phase II Environmental Assessments, Various Proposed Drugstore Sites, Orange and Lake Counties, Florida
- Phase I Environmental Assessment, Maudlin Trucks, Orange County, Florida
- Herbert Hoover Dike Piezometers, Palm Beach and Martin Counties, Florida
- STA 1 East Dike Alignments, Palm Beach County, Florida
- South Pierce Deep Monitor Well Installation, Polk County, Florida

Ardaman & Associates, Inc.

Carl R. Stephens, PE

Remediation Design | UST Services

EXPERIENCE SUMMARY

Carl Stephens is responsible for preparing proposals, planning projects, coordinating field sampling and analytical testing programs, reducing, and evaluating data, preparing technical reports for environmental projects, and reviewing technical reports prepared by environmental professionals. Carl is also responsible for training and instructing engineers and field technicians on sampling techniques and environmental studies. In addition, he manages the Orlando Office Drilling Department. He has prepared and/or reviewed over 1,000 Phase I and Phase II Environmental Assessments, as well as over 250 Petroleum Storage Tank Closure Reports. He has served as Project Manager on numerous contamination assessments, remedial action plans, and site remediation projects. Carl manages Ardaman's FDEP PRP ATC contract for the central region. He is also responsible for establishing environmental policies for Ardaman and often acts as a liaison between Ardaman and the local regulatory agencies. Carl has worked on environmental projects at Ardaman for 35 years.

EDUCATION

MS, Environmental Engineering, University of Central Florida, 1995

BS, Limnology, University of Central Florida, 1988

AREA OF EXPERTISE

Coordinating Field Sampling

Preparing Technical Reports

Training and Instructing Engineers

REGISTRATIONS/ CERTIFICATIONS

Professional Engineer, Florida, No. 53221

OFFICE

Orlando, FL

YEARS OF EXPERIENCE

35

RELEVANT PROJECT EXPERIENCE

Sadler/Shingle Creek Relief Elementary School, Orange County, FL. Project Manager for this Orange County Public Schools project, providing environmental engineering consulting services for the school site. Ardaman conducted both a Phase I and Phase II assessment on former golf course and discovered elevated levels of arsenic in the soil resulting from the application of herbicides (monosodium methane arsonate, MSMA) and fertilizers and the discharge of sprayer and equipment wash water. Ardaman prepared an Interim Remedial Action Plan for the site and directed the remediation activities, including confirmatory testing and verifying the contractor's pay items.

CSER, Level 2 Assessments, Site Remediation and Consulting, Hoagland Blvd. Extension, Osceola County, FL. Ardaman updated the CSER for this project. Level 2 Assessments were conducted relative to six sites, and supplemental assessment was conducted at three of these sites. Under Carl's direction, a gun range was remediated, carcinogenic compounds in the soil at a nursery were removed to preclude exposure to construction crews, and a former contaminated soil incineration facility was partially remediated, allowing contamination to remain under impervious cover, as negotiated with FDEP. Ardaman prepared work plans and assisted with plan notes regarding constructing the roadway through areas of arsenic-contaminated groundwater.

SR 408 and Rosalind Avenue, Contamination Evaluation and Source Removal, Orlando, FL. An underground storage tank was encountered by construction crews improving State Road 408 at Rosalind Avenue. Ardaman completed a tank closure assessment, source removal, and confirmatory soil sampling at the site. The source removal consisted of the excavation and off-site incineration of contaminated soil above and below the water table. In addition, a monitoring well was installed and sampled after source removal. Ardaman subsequently assessed groundwater and promptly got a No Further Action from FDEP so roadway improvements could continue unhindered.

City of Orlando, Fleet Maintenance Facility Contamination Assessment and Remediation, FL. Project Manager during the preparation of a Site Assessment Report (SAR), which delineated the vertical and horizontal extent of petroleum contamination in soil and groundwater at this city fueling facility. Prepared plans and specifications to excavate the contaminated soil and treat groundwater as source removal at the client's preference in order to minimize redevelopment delays. Monitored and directed the contractor on behalf of the City. A total of 11,236 tons of contaminated soil were excavated, and 1.75 million gallons were pumped from the excavation, treated, and discharged to prevent highly contaminated groundwater and product from the re-contaminating clean fill. The excavation was carefully backfilled and compacted since two buildings were slated to be built over the 19,000 square-foot excavation.

TETRA TECH

Michael O. Jaynes, PE
Remediation Design

EXPERIENCE SUMMARY

Mike Jaynes has over 33 years of experience in environmental engineering including contamination assessment, remedial investigations, feasibility studies, remedial system design and implementation, and project management. His experience includes preliminary assessments, site investigations, well drilling and direct-push technology oversight, groundwater, surface water, sediment, and soil sampling, landfill studies, aquifer characterization, remedial investigations, site inspections, and remedial construction oversight. His expertise is in remedial system design, installation and construction oversight, system monitoring, operation and maintenance, groundwater injection remedies, CERCLA and RCRA decision document preparation. Other experience includes MRP site investigations and remediation, tank inspections, SPCC plans, data acquisition, management, and interpretation. Mike's experience also includes work at industrial sites, RCRA landfills, U.S. Naval Facilities, underground storage tank (UST)/petroleum sites, commercial drycleaner/chlorinated solvent sites, U.S. Coast Guard Facilities, Targeted Brownfields sites, and National Priority List Superfund sites.

RELEVANT PROJECT EXPERIENCE

Naval Air Station (NAS) Pensacola, Naval Facilities Engineering Command Southeast (NAVFAC SE), Pensacola, FL. Currently the Engineer of Record/technical lead for five CERCLA sites at NAS Pensacola. His responsibilities included preparation and review of feasibility study/proposed plan/record of decision (FS/PP/ROD) documents and remedial design (RD) documents addressing various soil and groundwater remedial projects at Sites 38, 43, 44, 45, and 46, as well as UST Site 21, Berthing Pier.

Continental Cleaners Superfund Site, U.S. Environmental Protection Agency (USEPA). Engineer of Record/technical lead for the Continental Cleaners USEPA Superfund site in Miami, Florida. His responsibilities included all aspects of site rehabilitation including feasibility studies, remedial alternative evaluation, injection design, and implementation oversight. This site is a former drycleaner site which includes a very large widespread solvent plume (soil and groundwater) within both residential and commercial areas. Other responsibilities included development of remedial alternative cost estimates and report preparation.

NAS Whiting Field, NAVFAC SE, Milton, FL. Project manager/technical lead for the CERCLA site investigations at NAS Whiting Field, a NPL facility. His responsibilities included overall project/task management, remedial alternative analysis; preparation and review of FS/PP/ROD documents and RD documents for several sites across the facility requiring various degrees of remedial action including the base-wide groundwater investigation (Site 40) and soil excavation at Site 41, the Former Pesticide Storage Building. Sixteen (16) RODs have been completed and signed within the last ten years for Sites 2, 5, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 29, 35, 38, and 41. The selected remedy for many of the sites involved LUCs to restrict access to and future land use of sites with surface and/or subsurface soil contamination.

Alpha Delta Piers, Light Non-Aqueous Phase Liquid (LNAPL) Monitoring and Removal, U.S. Naval Station (NAVSTA), NAVFAC SE, Jacksonville, FL. Responsible for execution of the RAP at the Alpha Delta Piers (a UST site) at NAVSTA Mayport. His responsibilities included field operation and project management (planning and scheduling), LNAPL monitoring, groundwater sampling, and other field related tasks. Other responsibilities included data acquisition and analysis, and preparation of quarterly monitoring reports.

EDUCATION

BS, Chemical Engineering and Petroleum Refining, Colorado School of Mines, 1991

AREA OF EXPERTISE

Assessment

Remedial Design

Implementation

O&M and Monitoring

Injection Technologies

MRP Sites

SPCC Plans

REGISTRATIONS/ CERTIFICATIONS

Professional Engineer, Florida, No. 55441; Mississippi, No. 17816; Texas, No. 142369

TRAINING

OSHA 1910.120 - 40-Hr HAZWOPER Training

OSHA 1910.120 - 8-Hr Refresher/ Supervisor Course

OSHA 1910.146 - Confined Space Entry Training

OSHA 10-Hr Construction Supervisor Course

Laws and Ethics for Professional Engineers

OFFICE

Austin, TX

YEARS OF EXPERIENCE

33

TETRA TECH

Francisco Martinez, PE

Remediation Design | Marine Structural Design | Construction Bids and Tech Review

EXPERIENCE SUMMARY

Francisco Martinez has had over 10 years of experience working with structural and environmental components across various sites in Florida. Some of the work performed has included production and review of design and construction plans and specifications, inspection of environmental impacts on sites, inspection of structures to determine repair requirements, project site visits to monitor construction activities, and meeting with current and potential clients and subcontractors. Other duties performed include writing reports summarizing work performed/to-be-performed on a project, and checking on material production and testing procedures. As part of inspecting construction activities, he has had to document all work done, confirm the accuracy of the construction activities with the plans, and prepare/present reports to project managers, clients, and contractors in order to facilitate the completion of all required project activities. Other experience involves producing and updating plan drawings using AutoCAD programs for multiple on-going projects and permit applications for future projects, as well as innovating new uses of AutoCAD, Civil3D, and other 3D modeling software to meet project modeling and review needs.

RELEVANT PROJECT EXPERIENCE

Key West Historic Seaport Seawall Repair Design, Key West, FL. Following inspection of the state of the marina seawalls, primarily responsible for producing engineered design and construction plans for the repair/replacement of the Key West Historic Seaport seawalls. Design components included cantilever sheet pile walls with concrete caps and gravity concrete seawall footer repairs. Consideration in design included coordination with existing utilities including water, sewer, and electric along and behind the existing seawall.

Key West Aquarium Seawall Repair, Key West, FL. Performed engineering inspection of the seawall to repair damage caused by Hurricane Irma. Responsible for quantifying and depicting impacts to the seawall and developing construction plans and specifications required to repair/improve the current seawall. Primarily responsible for permitting the construction activities with multiple agencies and coordinating efforts with agency employees and other impacted parties. During design of the replacement seawall, duties included design of the demolition plan and layout of the new seawall in front of the existing seawall with sheet piles. As construction takes place, responsible for site inspections to ensure construction conforms to all contract documents and design plans.

Key West Bight Marina Inspection and Repair, Key West, FL. Over various project phases performed inspection of various seawalls that comprise the full extent of the Key West Bight Marina, often with the assistance of a dive team, to determine the state of the seawalls and whether any repair would be required. Also, primarily responsible for the structural inspection of the docking facilities (docks, piers, and piles) across the full Marina. For each, project reports and CAD drawings were produced to show the extent of any damage along any seawall or marina structure, and repair alternatives were presented to the client. Support was provided during the development of construction plans and bid documents required for the repair/construction work. During construction of the first phase, various inspections were performed throughout the duration of construction as well as after substantial completion for design conformity and general conformance to contract documents.

EDUCATION

BS, Civil Engineering, Florida Atlantic University, 2011

MS, Civil Engineering, Florida Atlantic University, 2013

AREA OF EXPERTISE

Civil Engineering

Structure / Engineering Inspection

Construction Oversight

Data Analysis

REGISTRATIONS/ CERTIFICATIONS

Professional Engineer, FL, Number 86702

Engineer Intern, FL, Number 1100016050

FDEP Qualified Stormwater Management Inspector, 40268

TRAINING

DOT Hazardous Materials Training; 2018

Environmental Safety Supervisor; 2019

OSHA 8-Hour HAZWOPER Refresher Course; 2019

OFFICE

Stuart, FL

YEARS OF EXPERIENCE

10

TETRA TECH

Stephen Blair
Coastal Engineering

EXPERIENCE SUMMARY

Steve Blair has over 34 years of experience in managing large water and environmental programs. He has served as a technical expert on a wide range of projects involving surface and groundwater hydrology, watershed assessment, environmental damage mitigation and restoration, water and water and wastewater infrastructure planning, design and construction.

RELEVANT PROJECT EXPERIENCE

Franklin-98 Living Shoreline Project, Franklin County, FL. Served as design engineer for this 12-mile-long living shoreline project involving installation of nearshore oyster reefs, to create intertidal marshes. As part of predesign studies, prepared a Coastal Conditions Analysis. The report consolidated data to define key design parameters with regard to tidal datums, historic storm surge elevations and wind conditions, existing bathymetric data, etc. The assessment also included numerical wave modeling to determine probable wave characteristics (e.g., wave heights and periods) during average annual conditions and varying-level storm events. Led the preparation of design documents and supported the first phase of construction.

Defence Advanced Research Project Agency (DARPA), A Mosaic Oyster Habitat for Coastal Defense, Panama City, FL. Served as lead engineer for the implementation of a pilot study employing an innovative artificial oyster reef material currently under development by a team of academics representing 6 universities and research agencies. Reviewed research results and providing feedback as these studies continue. Led initial design activities for the field pilot test to be located at Tyndall Air Force Base expected to start this year.

Florida Fish and Wildlife Conservation Commission, Riverside Conservancy Living Shoreline Design, Volusia County, FL. Led design activities for this living shoreline project along 100 feet of the Intracoastal waterway shoreline. This project will serve as a demonstration of a simple, affordable way for local residents to replace their existing concrete bulkhead with an ecologically enhance and resilient shoreline.

Toho Water Authority, Peace Creek Aquifer Recharge Project, Polk County, FL. Led the preparation of a 30% design of a 500 acre treatment wetland and slow sand filtration system to treat water from Peace Creek prior to aquifer storage and recovery. The system is sized to provide up to 40 mgd of water suitable for injection in accordance with Florida Department of Environmental Protection requirements.

Apalachee Regional Planning Council (ARPC), Alligator Point Coastal Resiliency Alternatives Assessment, Franklin County, FL. Performed an assessment of shoreline conditions, community assets at risk and developed alternatives to address the chronic beach erosion along the south shore of Alligator Point. Alternatives ranged from seawalls to protect critically impact roadways to beach restoration combined with breakwaters. Each alternative was evaluated against criteria related to effectiveness, implementation, and cost. This information is being used to advance to further public discussion regarding potential management strategies to increase the long-term resilience of the Alligator Point community.

National Practice Lead for Coastal and Ecosystem Restoration. Responsible for development of national marketing strategy, coordination of marketing activities, participation in major project pursuits, promotion of technical excellence and quality within the practice area.

EDUCATION

M.S. - Water Resources Engineering, State University of New York at Buffalo, 1991

B.S. - Civil Engineering, State University of New York at Buffalo, 1989

AREA OF EXPERTISE

Water Resources

Hydrology and Hydraulics

Ecological Restoration

Coastal Restoration

Water Infrastructure

Project Management

REGISTRATIONS/ CERTIFICATIONS

Professional Engineer: Florida 83121

TRAINING

PM1, 2024 (Tetratech)

PM2, 2025 (Tetratech)

OFFICE

Stuart, FL

YEARS OF EXPERIENCE

34

Gerardo Contreras, PE, LEED AP, D.CE, D.PE

Coastal Engineering | Construction Bids and Tech Review | Construction Management and CEI

EXPERIENCE SUMMARY

Gerardo Contreras is a civil engineer with more than 34 years of experience. This experience includes engineering projects supporting several industries such as energy, mining, environmental, and transportation. Gerardo is exceptionally well qualified and proactive in adapting to the latest technologies to improve project execution, including the use of 4D design, smart drawings, and simulations. His design experience covers structural design for vertical buildings, heavy equipment foundations, piers, and seawalls. His computer modeling skills included being highly trained on 3D civil modeling techniques with the capability to simulate and design dredging and disposal sites, beach nourishment projects, and all surfaces involved in coastal projects such as breakwater modeling, submerged surface modeling, and roads and site development. He has gained considerable construction experience from various assignments that include Owner Representative, Field Engineer, and Construction Manager. Recent experience includes work overseas (Venezuela, Spain, Malta, Azerbaijan, Armenia, Sri Lanka, Greece, Bahamas, and Peru). His construction experience covers a multidisciplinary scope focused on civil, structural, electrical, and communications, which includes on-site assessments of facilities, field inspection, QA/QC, site acceptance, and field oversight roles. As part of his long and varied participation in port sector projects, Gerardo has developed a broad knowledge of port operations in conjunction with the engineering side. Combined with his extensive coastal experience, he has been recognized in both fields by his peers by achieving the Diplomate Certificates granted by the Academy of Coastal, Ocean, Port and Navigations Engineers (ACOPNE).

RELEVANT PROJECT EXPERIENCE

Martin County Coastal Engineering Section, Manatee Pocket Contract, FL. Field investigations, design studies, dredged material handling, and regulatory permitting, public participation, grant research and writing, and construction support services for the development of a navigational channel in Manatee Pocket at Stuart, Florida. Tetra Tech contributed the project's qualification for about $10 million of the $13 million construction cost. In October 2010, the Treasure Coast Chapter of the Florida Association of Environmental Professionals gave the project its Project Award for the single project that provided the most environmental enhancement.

Martin County Coastal Engineering Section, Jensen Beach Boat Ramp Contract Number 3156, FL. Field investigations, design studies, dredged material handling, and regulatory permitting for the development of recreational boat ramp located at Jensen Beach.

Concord Wilshire, Redevelopment of Ruffy's Marina, Hollywood, FL. The project included site, bathymetric, and sea grass surveys for input into the design and permitting process. Tasks included permit drawings preparation, alternatives analysis for dredging and mitigation, and input for submittals to the agencies.

City of Fort Pierce, City Marina Replacement and Expansion, FL. Permitting and design of the replacement and expansion of the City Marina that was destroyed by Hurricane Jeane in 2004. The project involved coordination with FEMA regarding the hurricane damage to the marina and the development of a damage mitigation plan to protect the rebuilt marina from future storm wave and current damage. The reconstruction program included design of 150 slips on floating docks with full utilities, design of a new bulkhead, design of a system of island breakwaters to protect the marina, and the design of shore stabilization at an adjacent city park.

EDUCATION

Executive MBA, Advanced Management Program, IESA, Caracas, Venezuela, 1999

Civil Engineer, Universidad Central de Venezuela, Ciudad Universitaria, 1990

AREA OF EXPERTISE

Civil Engineer

Structural Design for Heavy Equipment Foundations, Piers and Seawalls

Construction Management

Port Operations/Coastal Projects

3D Computer Modeling

REGISTRATIONS/ CERTIFICATIONS

LEED Accredited Professional

Diplomate, Coastal Engineering, ACOPNE, Number ACOPNE #21

Diplomate, Coastal Engineering, ACOPNE #5

Professional Engineer, #72828 (Venezuela)

Professional Engineer, FL, #66381

Active Record Holder with National Council of Examiners for Engineering and Surveying (NCEES); #38114

OFFICE

Stuart, FL

YEARS OF EXPERIENCE

34

TETRA TECH

Mauricio Posada, PE
Marine Structural Design

EXPERIENCE SUMMARY

Mauricio Posada is a Senior Structural Engineer with 24 years of experience providing civil, structural, and marine engineering solutions for the industrial, commercial, oil/gas, and maritime industries. Mauricio has worked in analysis, design, rehabilitation, and detailed engineering for many structural projects, including ports, waterfront structures, flood control, foundations, piers, dolphins, bulkheads, and platforms. Mauricio is proficient in the design of steel, aluminum, and concrete structures. Experience also includes seismic engineering and lifting/rigging analysis/solutions.

RELEVANT PROJECT EXPERIENCE

520 Pluckebaum Connector, Brevard County, FL. Structural design of retaining walls to stabilize a ditch near the Pluckebaum road. The solution comprises sections with precast concrete blocks and hydro-turf. Stability analysis for retaining wall using precast concrete blocks.

Brickell Bay Drive Phase II, Miami, FL. Structural analysis and design of a seawall including precast king piles and cast-in-place reinforced concrete wall. Metocean and live load definition. Geotechnical analysis using PYWALL software. Tieback design.

Drainage Mitigation Project, City of Pasadena, TX. Structural design of hydraulic structures: double reinforced concrete box (culvert) for the city of Pasadena, Texas. Details and reinforcement design for special connections for the concrete box to reinforced concrete pipes and drainage inlets.

Molinos de Puerto Rico Dolphin Replacement, PR. Structural Engineer. Responsible for analysis and design of new breasting dolphin structures in Puerto Rico to replace damaged dolphins. The new dolphins are five-legged structures (steel piles with concrete cap). Mooring and berthing analysis. Fender selection. Analyses for seismic, storm and breasting scenarios.

Hyder Cap 107 - Design Services to Prepare Feasibility Study Design and Report for Hyder Section 107 - Hyder, AK. Project Manager and Marine Structural Engineer. Responsible for the management and coordination of the marine, structural and geotechnical tasks. Responsible for structural analyses on alternatives for the enhancement of the harbor. The Hyder Harbor is sited in an alluvial fan at the mouth of the Salmon River. Shallow depths are impacting the efficient use of portions of the harbor at Hyder. Vessels often ground during low tide, and portions of the harbor are inaccessible. The shallow depths are due to sediment movement and deposition within the alluvial fan. Our involvement consists of preparing alternatives and selection the best for a new harbor that is economically justified, environmentally compliant, technically feasible and of public interest.

Accudock Solar Panels Floats for the Teco R&D in Tampa, FL. Structural performance verification of floating units supporting solar panels. The floating units are subjected to hurricane forces. The connection between panels were revised and retrofit details were implemented.

Broward County Water Detention Facility, USACE Jacksonville District, Broward County, FL. Deputy Project Manager. Responsible for the coordination of the tasks of all the disciplines in the project (40-men team comprising engineers, scientists, and designers). In charge of receiving and evaluating the government furnished information. Responsible for time entries, schedule, and deliverables management. The project comprises design of different hydraulic structures, a pump station, mitigation and permitting. The impoundment will provide above ground storage for 1,032 acres.

EDUCATION

MS, Civil Engineering (Structural), The University of Texas at Austin, 2001

BS, Civil Engineering, Universidad de los Andes, 1998

AREA OF EXPERTISE

Structural Analysis

Concrete Design

Steel Design

Foundations Design

Waterfront Structures

Ports, Marinas, Bulkheads, Piers

REGISTRATIONS/ CERTIFICATIONS

Professional Engineer, Civil

TX License #99369 (2007)
FL License #69521 (2009)
LA License #37932 (2013)
AK License #13772 (2013)
NY License #097467 (2017)
DE License #21390 (2017)
RI License #12439 (2017)
NJ License #GE54747 (2018)
OH License #PE.85716 (2020)
AZ License #72816 (2021)
GA License #PE 046781 (2021)
PR License #PE 28535 (2022)
VA License #402066661 (2023)
MA License #58511 (2023)

OFFICE

Jacksonville, FL

YEARS OF EXPERIENCE

24

TETRA TECH

Jennifer L. Deal, PE
Landfill and Solid Waste Consulting

EXPERIENCE SUMMARY

Jennifer Deal has 25 years of experience as an engineer and project manager in the environmental field, focusing on regulatory compliance assistance, client management, regulatory agency interaction, permitting and technical design, and quality assurance. She has 18 years' experience managing multi-disciplinary projects, primarily for solid waste management facilities, assessment, and remediation projects. She has 14 years of experience conducting project quality assurance reviews for commercial projects in Florida. Jennifer has performed project quality reviews for work plans, contamination/site assessment reports, state and local permit applications and supporting documentation, construction quality assurance plans and technical specifications, solid waste master plans, proposals/contracts, general regulatory or client correspondence, Phase I/II ESA reports, remedial action plans, remediation summary reports, construction progress reports, among others.

RELEVANT PROJECT EXPERIENCE

Stock Island Landfill, Key West, FL. Reviewed the landfill closure report and associated groundwater monitoring for a closed landfill to provide opinion on current assessment of the landfill.

Brevard Central Landfill, Cocoa, FL. Provided third party Construction Quality Assurance oversight for partial side slope closure on a Class I landfill, reviewing field and laboratory geosynthetic test results.

Lee County Solid Waste Department, Fort Myers, FL. Updating Operations Plans; Stormwater Pollution Prevention Plans; and Spill Prevention, Control, and Countermeasures Plans for the solid waste operations ancillary to the Waste-To-Energy Facility, including C&D recycling, municipal waste transfer station, yard waste processing area, and waste tire processing. Provided overall management for development and compilation of an Integrated Solid Waste Master Plan. Managed field components for Waste Characterization Study of waste and recyclable materials.

Orange County Solid Waste, Orange County, FL. Provided oversight of assessment activities and prepared a Summary Report of damage to Orange County Landfill cells due to Hurricane Ian (2022). Prepared State solid waste management facility permit renewal application, including engineering report, operations plan, and closure plan for a municipal solid waste transfer station. Conducted site audit and prepared summary of operations and permit review for the Recovered Materials Processing Facility.

DRD Landfill; Arcadia, FL. Prepared groundwater technical report summarizing first five groundwater monitoring events. Prepared solid waste management facility permit application for a major lined Class III landfill expansion, including operations plan, closure plan, groundwater monitoring, and overall project management. Construction Quality Assurance oversight for construction of Cell 3, a single lined landfill cell, reviewed field work, reviewed field and laboratory testing of geosynthetic components, collected soil samples and reviewed laboratory geotechnical test results, prepared final certification report. Construction Quality Assurance oversight for construction of Cell 2, a single lined landfill cell, reviewed field work, reviewed field and laboratory testing of geosynthetic components, collected soil samples and reviewed laboratory geotechnical test results, prepared final certification report. Provided third party Construction Quality Assurance oversight for construction of Cell 1, a single lined landfill cell, reviewed field work, reviewed field and laboratory testing of geosynthetic components, collected soil samples and reviewed laboratory geotechnical test results. Provided third party oversight and technical review of initial background and semi-annual groundwater sampling reports.

EDUCATION

BS, Environmental Engineering, University of Central Florida, 1997

AREA OF EXPERTISE

Solid Waste Management

Permitting

Landfill CQA

Contamination Assessment

Phase I ESAs

SWPPPs and SPCCs

Quality Assurance

REGISTRATIONS/ CERTIFICATIONS

Registered Professional Engineer: Florida (58592), Georgia (044474), South Carolina (36691), Tennessee (122963), Alabama (39076-E)

Qualified Stormwater Management Inspector (26520)

Florida Association of Environmental Professionals (Central Florida and Tampa Bay Chapters)

TRAINING

OSHA 40-hr. HAZWOPER Training

OSHA 8-hr. Supervisor Training

OFFICE

Orlando, FL

YEARS OF EXPERIENCE

25

TETRA TECH

Sasha Kishore

Construction Bids and Tech Review

EXPERIENCE SUMMARY

Sasha Kishore has over 25 years of experience in construction administration and quality assurance. She specializes in various projects across Florida, including new construction, rehabilitation, and retrofitting structures. Her expertise lies in low-level bridges, marinas, seawalls, piers, water control structures, heavy civil structures, revetment, and municipal critical facilities. In addition, Sasha has experience as a quantity and construction cost estimator, as well as preparing permit and construction documents, including plans and specifications.

RELEVANT PROJECT EXPERIENCE

South Florida Water Management District (SFWMD), C-43 West Basin Storage Reservoir Project, LaBelle, FL. Sasha is responsible for several tasks, such as assisting in the transitional phase of the project as SFWMD serves as the Prime Contractor until a new one is selected. Sasha is also tasked with reconciling Purchase Orders and Invoices provided by sub-contractors who provided emergency services during this period. Additionally, Sasha will help determine the level of effort required to complete the project, prepare quantity take-offs, and cost estimates based on current pricing for the remaining work, and focus primarily on the project's 14 water control structures. Furthermore, Sasha will coordinate the purchase orders of subcontractors, ensure thorough review and timely approvals of invoices, participate in look-ahead meetings, perform periodic site visits, and meet with the Quality Assurance team and individual sub-contractors' Quality Control Managers to address concerns and ensure conformance to the project's plans and specifications.

G-716 Spillway Structure, Palm Beach County, FL. Responsible for creating construction documents, estimating material quantities and construction costs. Throughout the construction phase, reviewed and approved shop drawings, contractor pay applications, and responded to contractor RFIs. Additionally, performed field observations for pile driving, reinforcement, and concrete placement both at pre-cast concrete component production facilities and on the project site.

S-140 Pump Station Improvements, Broward County, FL. Responsible for creating construction documents, making quantity take-offs, and estimating construction costs. Throughout the construction phase, reviewed and approved shop drawings, contractor pay applications, and responded to contractor RFIs. Additionally, performed field observations for pile driving, reinforcement, and concrete placement at both pre-cast concrete component production facilities and the site.

Lake Worth Water Treatment Plant East Clearwell Structural Repairs, Palm Beach County, FL. Responsible for preparing construction documents, quantity take-offs, and construction cost estimates. During the construction phase, provided services such as reviewing and approving shop drawings, contractor pay applications, responding to contractor RFIs, and performing field observations of reinforcement and concrete at the project site.

Hyder Squared Bridge over E-1 Canal, Palm Beach County, FL. Responsible for preparing construction documents, quantity take-offs, and construction cost estimates. Throughout the construction phase, reviewed and approved shop drawings, contractor pay applications, and responses to contractor RFIs. Additionally, performed field observations for pile driving, reinforcement, and concrete placement at pre-cast concrete component production facilities and the project site.

EDUCATION

BS, Mechanical Engineering, Florida Institute of Technology, 1998

AREA OF EXPERTISE

Quality Assurance

Quantity Takeoffs

Construction Cost Estimating

Construction Management

REGISTRATIONS/ CERTIFICATIONS

Engineer Intern, Florida, 1100003780, 1998

ASCE Construction Engineering Certificate, 2019

TRAINING

OSHA 30-Hour Construction Safety and Health, 2021

OSHA Permit and Non-Permit Confined Space, 2020

ACI Concrete Field Technician Grade 1, 2002

OFFICE

Stuart, FL

YEARS OF EXPERIENCE

25

TETRA TECH

Brian Proctor
Construction Management & CEI

EXPERIENCE SUMMARY

Brian Proctor has 26 years of experience as a project manager and lead scientist with specific experience in land stewardship, natural resources management, wetland ecosystems, and natural areas restoration. He has applied these skills across numerous industries including utility scale power generation, transmission and distribution, water quality improvement projects and Everglades Restoration. As Project Manager, he has implemented more than 100 habitat restoration projects. He has been the responsible person in charge of designing, permitting, planning, and construction oversight a diverse array of upland and wetland restoration projects. His experiences included delineation, assessment, and restoration planning and monitoring of inland and coastal resources for both upland and wetland habitats. He has conducted and overseen numerous qualitative and quantitative flora and fauna surveys to monitor post project success. Brian has extensive experience with documenting the outcome of these surveys and studies. Following these documentation activities, he has coordinated with State and Federal agencies to prepare habitat conservation plans as part of an Incidental Take Permit as required by the ESA. He has coordinated with the USFWS concerning Biological Opinions on most listed species as part of consultations with Sections 7 and 10 of the ESA. Brian served as Aquatic Preserve Manager for the Indian River Lagoon Aquatic Preserve and Buffer Preserve Manager for the North Fork St Lucie Buffer Preserve with the Florida Department of Environmental Protection. He was responsible for oversight of the management, planning, and implementation of restoration and enhancement activities on over 160,000 acres of State owned and managed lands.

EDUCATION

MS, Environmental Resource Management, Florida Institute of Technology, 1995

BA, Environmental Policy, University of Maryland, 1991

AREA OF EXPERTISE

Land stewardship

Natural resources management

Wetland ecosystems

Habitat restoration

Project management

REGISTRATIONS/ CERTIFICATIONS

SCUBA, PADI

TRAINING

Authorized Gopher Tortoise Agent, Permit # GTA-09-00206

Certification for Stormwater, Erosion and Sediment Control Inspector; FDEP (#22435)

FERC Environmental Review and Compliance for Natural Gas Facilities Seminar; 2017

Aquatic Plant Identification; University of Florida, IFAS; 2006

Commercial Pesticide Applicators License; State of Florida Categories in Natural Areas and Aquatics

OFFICE

Stuart, FL

YEARS OF EXPERIENCE

29

RELEVANT PROJECT EXPERIENCE

South Florida Water Management District, C-43 Reservoir CMS, FL. Project Manager for C-43 Reservoir CMS representing Tetra Tech as part of JTech (Jacobs-Tetra Tech JV) Project included construction of 19 miles of earthen levees over 10,000 acres of former citrus grove. The project includes 14 water control structures and 2 pump stations up to 1500 CFS.

City of Fort Pierce Island Breakwaters Post Construction Ecological Monitoring, St Lucie County, FL. Responsible for overall project management and implementation of the ecological and performance monitoring required by the Florida Department of Environmental Protection and the USACE. Oversaw data collection and reporting of seagrass coverage around the islands as well as the mitigation sites, collection of data and reporting for mangrove, oyster and dune vegetation success.

City of Fort Pierce Island Breakwaters, St. Lucie County, FL. Responsible for overall project management and implementing construction management and engineering inspections during construction for a 12-island breakwater system. Responsible for contractor adherence of the environmental permits and the environmental protection plan. Oversight of monitoring activities of listed species including manatees, least terns, and sea turtles as well as water quality and turbidity.

City of Fort Pierce Marina Reconstruction, St. Lucie County, FL. Responsible for federal permitting activities for reconstruction of City of Ft Pierce Marina and the creation of 11 Island breakwaters within the Indian River Lagoon. Coordinated with Federal and State Partners including NOAA, NMFS HCD and PRD, EPA, and FWS concerning avoidance and minimization of impacts, proposed mitigation, EFH, critical habitat, and other listed species concerns.

Appendix B. Signed Sworn Statements and Affidavits

ANTI-KICKBACK AFFIDAVIT

STATE OF FLORIDA)

: SS

COUNTY OF MONROE)

I, the undersigned hereby duly sworn, depose and say that no portion of the sum herein bid will be paid to any employees of the City of Key West as a commission, kickback, reward, or gift, directly or indirectly by me or any member of my firm or by an officer of the corporation.

By: Brian Proctor

Sworn to (or affirmed) and subscribed before me by means of [_X_] physical presence or [___] online notarization, this day of, March 27, 2025___, by__Brian Proctor_____.

Marirose Insogna
Signature of Notary Public – State of Florida

Marirose Insogna
(Name of Notary Typed, Printed, or Stamped)

(NOTARY SEAL)

MARIROSE INSOGNA
MY COMMISSION # HH 334084
EXPIRES: December 23, 2026

Personally Known ____X__ OR Produced Identification _____

Type of Identification Produced_____

NON-COLLUSION AFFIDAVIT

STATE OF FLORIDA

: SS

COUNTY OF MONROE

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 City, and that the Proposal is made without any connection or collusion with any person submitting another Proposal on this contract.

By: _____

Sworn to (or affirmed) and subscribed before me by means of [_X__] physical presence or [___] online notarization, this day of 27 March, 2025, by__Brian Proctor_____.

Signature of Notary Public – State of Florida

(NOTARY SEAL)

MARIROSE INSOGNA
MY COMMISSION # HH 334084
EXPIRES: December 23, 2026

Marirose Insogna
(Name of Notary Typed, Printed, or Stamped)

Personally Known ____X___ OR Produced Identification _____

Type of Identification Produced_____

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 OFFICER AUTHORIZED TO ADMINISTER OATHS.

1. This sworn statement is submitted with Bid or Proposal for _____

2. This sworn statement is submitted by: Tetra Tech, Inc.
(Name of entity submitting sworn statement)

whose business address is: 759 S Federal Highway Suite 314

Stuart FL 34994

and (if applicable) its Federal Employer Identification Number (FEIN) is:

95-4148514

(If the entity has no FEIN, include the Social Security Number of the individual signing this sworn statement)

3. My name is Brian Proctor
(Please print name of individual signing)

and my relationship to the entity named above is: VP , SE Operations Lead

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 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 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 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 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 (indicate which statement applies).

   _____X____Neither the entity submitting this sworn statement, or any of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, nor any affiliate of the entity has 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 its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the 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.

   _____The entity submitting this sworn statement, or one or more of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the 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. However, there has been a subsequent proceeding before a Hearing Officer of the State of Florida, Division of Administrative Hearings and the Final Order entered by the Hearing Officer determined that it was not in the public interest to place the entity submitting this sworn statement on the convicted vendor list (attach a copy of the final order).

I UNDERSTAND THAT THE SUBMISSION OF THIS FORM TO THE CONTRACTING OFFICER FOR THE PUBLIC ENTITY IDENTIFIED IN PARAGRAPH ONE (1) ABOVE IS FOR THAT PUBLIC ENTITY ONLY AND, THAT THIS FORM IS VALID THROUGH DECEMBER OF THE CALENDAR YEAR IN WHICH IT IS FILED. I ALSO UNDERSTAND THAT I AM REQUIRED TO INFORM THE PUBLIC ENTITY PRIOR TO ENTERING INTO A CONTRACT IN EXCESS OF THE THRESHOLD AMOUNT PROVIDED IN SECTION 287.017, FLORIDA STATUTES, FOR THE CATEGORY TWO OF ANY CHANGE IN THE INFORMATION CONTAINED IN THIS FORM.

Signature

March 27, 2025
Date

STATE OF FLORIDA

COUNTY OF MONROE

Sworn to (or affirmed) and subscribed before me by means of [___] physical presence or [___] online notarization, this day of, 27 March2025, by__Brian Proctor_____.

Signature of Notary Public – State of Florida

(NOTARY SEAL)

MARIROSE INSOGNA
MY COMMISSION # HH 334084
EXPIRES: December 23, 2026

Marirose Insogna
(Name of Notary Typed, Printed, or Stamped)

Personally Known ___X___ OR Produced Identification _____

Type of Identification Produced_____

EQUAL BENEFITS FOR DOMESTIC PARTNERS AFFIDAVIT

STATE OF FLORIDA

: SS

COUNTY OF MONROE

I, the undersigned hereby duly sworn, depose and say that the firm of __Tetra Tech, Inc._____
provides benefits to domestic partners of its employees on the same basis as it provides benefits to employees' spouses, per City of Key West Code of Ordinances Sec. 2-799.

By:_____

Sworn to (or affirmed) and subscribed before me by means of [_x_] physical presence or [___] online notarization, this day of 27 March, 2025, by___Brian Proctor_____.

(NOTARY SEAL)

MARIROSE INSOGNA
MY COMMISSION # HH 334084
EXPIRES: December 23, 2026

_____
Signature of Notary Public – State of Florida

Marirose Insogna
(Name of Notary Typed, Printed, or Stamped)

Personally Known ___X____ OR Produced Identification _____

Type of Identification Produced_____

CONE OF SILENCE AFFIDAVIT

Pursuant to City of Key West Code of Ordinances Section 2-773 (attached below)

STATE OF FLORIDA

: SS

COUNTY OF MONROE

I, the undersigned hereby duly sworn, depose and say that all owner(s), partners, officers, directors, employees, and agents representing the firm of Tetra Tech, Inc. _____

have read and understand the limitations and procedures regarding communications concerning City of Key West Code of Ordinances Sec. 2-773 Cone of Silence (attached).

By: _____

Sworn to (or affirmed) and subscribed before me by means of [__x] physical presence or [___] online notarization, this day of March 27, 2025, by___Brian Proctor_____.

(NOTARY SEAL)

MARIROSE INSOGNA
MY COMMISSION # HH 334084
EXPIRES: December 23, 2026

_____
Signature of Notary Public – State of Florida

_____
(Name of Notary Typed, Printed, or Stamped)

Personally Known ___X___ OR Produced Identification _____

Type of Identification Produced_____

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. Completive 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;

(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 publicly 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;

(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.

(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.

(5) 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. (Ord. No. 13-11, § 1, 6-18-2013)

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AFFIDAVIT ATTESTING TO NONCOERCIVE CONDUCT

FOR LABOR OR SERVICES

Entity/Vendor Name: Tetra Tech, Inc.

Vendor FEIN: 95-4148514

Vendor's Authorized Representative: Brian Proctor

Address: 759 S Federal Highway, Suite 314

City: Stuart State: FL Zip: 34994

Phone Number: 772.781.3472

Email Address: Brian.Proctor@TetraTech.com

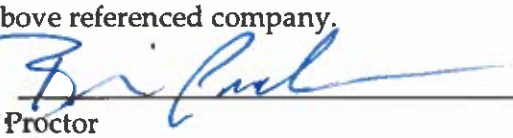
As a nongovernmental entity executing, renewing, or extending a contract with a government entity, Vendor is required to provide an affidavit under penalty of perjury attesting that Vendor does not use coercion for labor or services in accordance with Section 787.06, Florida Statutes.

As defined in Section 787.06(2)(a), coercion means:

(1) Using or threating to use physical force against any person;
(2) Restraining, isolating, or confining or threating to restrain, isolate, or confine any person without lawful authority and against her or his will;
(3) Using lending or other credit methods to establish a debt by any person when labor or services are pledged as a security for the debt, if the value of the labor or services as reasonably assessed is not applied toward the liquidation of the debt, the length and nature of the labor or service are not respectively limited and defined;
(4) Destroying, concealing, removing, confiscating, withholding, or possessing any actual or purported passport, visa, or other immigration document, or any other actual or purported government identification document, of any person;
(5) Causing or threating to cause financial harm to any person;
(6) Enticing or luring any person by fraud or deceit; or
(7) Providing a controlled substance as outlined in Schedule I or Schedule II of Section 893.03 to any person for the purpose of exploitation of that person.

As a person authorized to sign on behalf of Vendor, I certify under penalties of perjury that Vendor does not use coercion for labor or services in accordance with Section 787.06. Additionally, Vendor has reviewed Section 787.06, Florida Statutes, and agrees to abide by same.

Certified by: Brian Proctor, who is authorized to sign on behalf of the above referenced company.

Authorized Signature: 

Print Name: Brian Proctor

Title: VP, SE Operations Lead

ANTI-KICKBACK AFFIDAVIT

STATE OF FLORIDA)

: SS

COUNTY OF MONROE)

I, the undersigned hereby duly sworn, depose and say that no portion of the sum herein bid will be paid to any employees of the City of Key West as a commission, kickback, reward, or gift, directly or indirectly by me or any member of my firm or by an officer of the corporation.

By: Brian Proctor

Sworn to (or affirmed) and subscribed before me by means of [_X_] physical presence or [___] online notarization, this day of, March 27, 2025___, by__Brian Proctor_____.

Marirose Insogna
Signature of Notary Public – State of Florida

Marirose Insogna
(Name of Notary Typed, Printed, or Stamped)

(NOTARY SEAL)

MARIROSE INSOGNA
MY COMMISSION # HH 334084
EXPIRES: December 23, 2026

Personally Known ____X__ OR Produced Identification _____

Type of Identification Produced_____

VENDOR CERTIFICATION REGARDING

SCRUTINIZED COMPANIES LISTS

Proposer Vendor Name: Tetra Tech, Inc.

Vendor FEIN: 95-4148514

Vendor's Authorized Representative Name and Title: Brian Proctor VP, SE Operations Lead

Address: 759 S Federal Highway Ste 314

City: Stuart State: FL Zip: 34994

Phone Number: 772.781.3472

Email Address: Brian. Proctor@TetraTech.com

Section 287.135(2)(a), Florida Statutes, prohibits a company from bidding on, submitting a proposal for, or entering into or renewing a contract for goods or services of any amount if, at the time of contracting or renewal, the company is on the Scrutinized Companies that Boycott Israel List, created pursuant to section 215.4725, Florida Statutes, or is engaged in a boycott of Israel. Section 287.135(2)(b), Florida Statutes, further prohibits a company from bidding on, submitting a proposal for, or entering into or renewing a contract for goods or services over one million dollars ($1,000,000) if, at the time of contracting or renewal, the company is on either the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, both created pursuant to section 215.473, Florida Statutes, or the company is engaged in business operations in Cuba or Syria.

As the person authorized to sign on behalf of Proposer, I hereby certify that the company identified above in the section entitled "Proposer Vendor Name" is not listed on either the Scrutinized Companies that Boycott Israel List, Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List I understand that pursuant to section 287.135, Florida Statutes, the submission of a false certification may subject such company to civil penalties, attorney's fees, and/or costs and termination of the contract at the option of the awarding governmental entity.

Certified by: Brian Proctor (*Print Name*) VP, SE Operations Lead (*Print Title*)

Who is authorized to sign on behalf of the above reference company.

Authorized Signature: 

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. Proposer understands and agrees that any and all liabilities regarding the use of any subcontractor or subconsultant for services related to this agreement shall be borne solely by the Proposer. Ten dollars of the consideration paid by the City is acknowledged by Proposer as separate, good and sufficient consideration for this indemnification. This indemnification shall be interpreted to comply with Section 725.06 and 725.08, 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.

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COMPANY SEAL

PROPOSER: Tetra Tech, Inc

Address: 759 S Federal Highway 1 Suite 314
Stuart FL 34994

Signature:

Brian Proctor
Print Name

March 27, 2025
Date

VP, SE Operations Lead
Title

NOTARY FOR THE PROPOSER

STATE OF FLORIDA

COUNTY OF MONROE

The foregoing instrument was acknowledged before me by means [_X_] physical presence or [___] online notarization, this day of, 2025, by__Brian Proctor_____.

Signature of Notary Public – State of Florida

(NOTARY SEAL)

Marirose Insogna
(Name of Notary Typed, Printed, or Stamped)

Personally Known ___x____ OR Produced Identification _____

Type of Identification Produced_____

MARIROSE INSOGNA
MY COMMISSION # HH 334084
EXPIRES: December 23, 2026

LOCAL VENDOR CERTIFICATION

PURSUANT TO CITY OF KEY WEST CODE OF ORDINANCES SECTION 2-798

The undersigned, as a duly authorized representative of the vendor listed herein, certifies to the best of his/her knowledge and belief, that the vendor meets the definition of a "Local Business." For purposes of this section, "local business" shall mean a business which:

a. Principle address as registered with the FL Department of State located within 30 miles of the boundaries of the city, listed with the chief licensing official as having a business tax receipt with its principle address within 30 miles of the boundaries of the city for at least one year immediately prior to the issuance of the solicitation.

b. Maintains a workforce of at least 50 percent of its employees from the city or within 30 miles of its boundaries.

c. Having paid all current license taxes and any other fees due the city at least 24 hours prior to the publication of the call for bids or request for proposals.

X Not a local vendor pursuant to Code od Ordinances Section 2-798
Qualifies as a local vendor pursuant to Code od Ordinances Section 2-798

If you qualify, please complete the following in support of the self-certification & submit copies of your County and City business licenses. Failure to provide the information requested will result in denial of certification as a local business.

Business Name: Tetra Tech, Inc Phone: 772.781.3400

Current Local Address: _____ Fax: _____

(P.O. Box numbers may not be used to establish status)

Length of time at this address:

_____ 27 March 2025

Signature of Authorized Representative Date

STATE OF FLORIDA

COUNTY OF MONROE

The foregoing instrument was acknowledged before me this 27th day of March 2025.

By Brian Procter, VP, SE Operations Tetra Tech Inc.

(Name of officer or agent, title of officer or agent) (Name of corporation acknowledging)

or has produced _____ as identification

(type of identification)

_____

Signature of Notary

Marirose Insogna

Print, Type, or Stamp Name of Notary

Return Completed form with
Supporting documents to:
City of Key West Purchasing

MARIROSE INSOGNA
MY COMMISSION # HH 334084
EXPIRES: December 23, 2026

THE CITY OF KEY WEST E-VERIFY AFFIDAVIT

Beginning January 1, 2021, Florida law requires all contractors doing business with The City of Key West to register with and use the E-Verify System in order to verify the work authorization status of all newly hired employees. The City of Key West requires all vendors who are awarded contracts with the City to verify employee eligibility using the E-Verify System. As before, vendors are also required to maintain all I-9 Forms of their employees for the duration of the contract term. To enroll in the E-Verify System, vendors should visit the E-Verify Website located at www.e-verify.gov.

In accordance with Florida Statute § 448.095, it is the responsibility of the Awarded Vendor to ensure compliance with all applicable E-Verify requirements.

By executing this affidavit, the undersigned contractor verifies it compliance with Florida Statute § 448.095, stating affirmatively that the individual, firm, or corporation which is engaged in the performance of services on behalf of the City of Key West, has registered with, is authorized to use, and uses the U.S. Department of Homeland Security's E-Verify system.

Furthermore, the undersigned contractor agrees that it will continue to use E-Verify throughout the contract period, and should it employ or contract with any subcontractor(s) in connection with the performance of services pursuant to this Agreement with The City of Key West, contractor will secure from such subcontractor(s) similar verification of compliance with Florida Statute § 448.095, by requiring the subcontractor(s) to provide an affidavit attesting that the subcontractor does not employ, or subcontract with, an unauthorized alien. Contractor further agrees to maintain records of such compliance during the duration of the Agreement and provide a copy of each such verification to The City of Key West within five (5) business days of receipt.

Failure to comply with this provision is a material breach of the Agreement and shall result in immediate termination of the Agreement without penalty to the City of Key West. Contractor shall be liable for all costs incurred by the City of Key West to secure replacement Agreement, including but not limited to, any increased costs for the same services, and costs due to delay, and rebidding costs, if applicable.

March 27, 2025
Date

(Signature of Authorized Representative)

State of Florida
County of Monroe

Personally Appeared Before Me, the undersigned authority, ___Brian Proctor__ who, ☑ being personally know or ☐ having produced his/her signature in the space provided above on this __27__ day of __March, 2025.

Signature, Notary Public

12/23/2026
Commission Expires

Stamp/Seal:

MARIROSE INSOGNA
MY COMMISSION # HH 334084
EXPIRES: December 23, 2026