

Routine Engineering Services for Water Projects

Statement of Qualifications #24-013

June 21, 2024

Jefferson Parish



Ms. Shanna Folse
Jefferson Parish
General Government Building
200 Derbigny Street
Suite 4400
Gretna, Louisiana 70053
United States of America

Statement of Qualifications No. 24-013 To Provide Routine Engineering Services for Water Projects in Jefferson Parish, Resolution No. 144203

June 21, 2024

Dear Members of the Selection Committee:

Covering over sixty miles from the Gulf of Mexico to Lake Pontchartrain, Jefferson Parish is a diverse region connected by approximately 1800 miles of water mains serviced by two drinking water purification plants. To manage this, Jefferson Parish requires an experienced team to provide routine engineering services consisting of pipeline replacement, treatment, storage, and assessments for an aging water system. This need should be backed by an engineering firm who fully understands the intricacies involved in water facility designs on a large-scale level.

Mott MacDonald
650 Poydras Street
Suite 2550
New Orleans, Louisiana 70130
United States of America

T 504.529.7687
mottmac.com

As a global firm with a strong regional presence, Mott MacDonald realizes that an important aspect of supporting Jefferson Parish is to ensure that modern, resilient, and secure infrastructure is planned in advance. Practical plans for upgrading and maintaining your utilities will ensure uninterrupted quality service and allow you to focus on what's truly important – the community you serve. Our staff have provided engineering and related services throughout the gulf coast area for over 40 years. Our proposed staff have successfully designed key projects to maintain and sustain infrastructure that enhance system resiliency for our communities.

We believe that the Mott MacDonald team is the right choice to deliver the services required for this project, and we offer you multiple benefits:

- **Proven local project leadership staff, Austin Kittok, PE, Roy Thomas, PE, Amir Zafar, PE, Cale Madden, PE and Bruce Neu, PE, all with extensive water experience.** These staff are long-standing and trusted partners that possess the necessary skills to effectively lead and monitor a multi-discipline design team through successful implementation of routine engineering services including design, permitting, and construction administration.
- **Local water/wastewater professionals based in New Orleans and over 200 staff between Louisiana, Alabama, and Florida.** Mott MacDonald has the staff needed to address every design challenge. We have a reputation for providing new and fresh perspectives designing with clients' budgets in-mind, and our performance has resulted in repeat work with many clients.
- **A nationally recognized water/wastewater group renowned for their strong technical expertise in resilient treatment design.** Our proposed team has been brought into many high-profile projects due to their quality, commitment, and consistent execution.



We are fully committing our proposed staff and company resources to provide routine engineering services for Jefferson Parish's Water Department. We believe our unmatched water expertise, the extensive experience of our dedicated local senior staff, and our ability to provide a successful end-result while keeping stakeholders informed and involved during the design process makes us qualified to successfully deliver.

We understand that it is essential to the success of your projects that you select a team that can provide the complete range of services and understands the unique challenges associated with implementing water projects. We believe that the Mott MacDonald team is the right choice to serve as your consultant for routine engineering services for water projects and we appreciate your thoughtful consideration of our interest and capabilities.

We have thoroughly enjoyed working with Jefferson Parish's staff over the years to improve our area's water infrastructure and appreciate the opportunity to continue to work in partnership with Jefferson Parish. With that we ask that you select Mott MacDonald to provide routine engineering services for your water projects.

Sincerely,

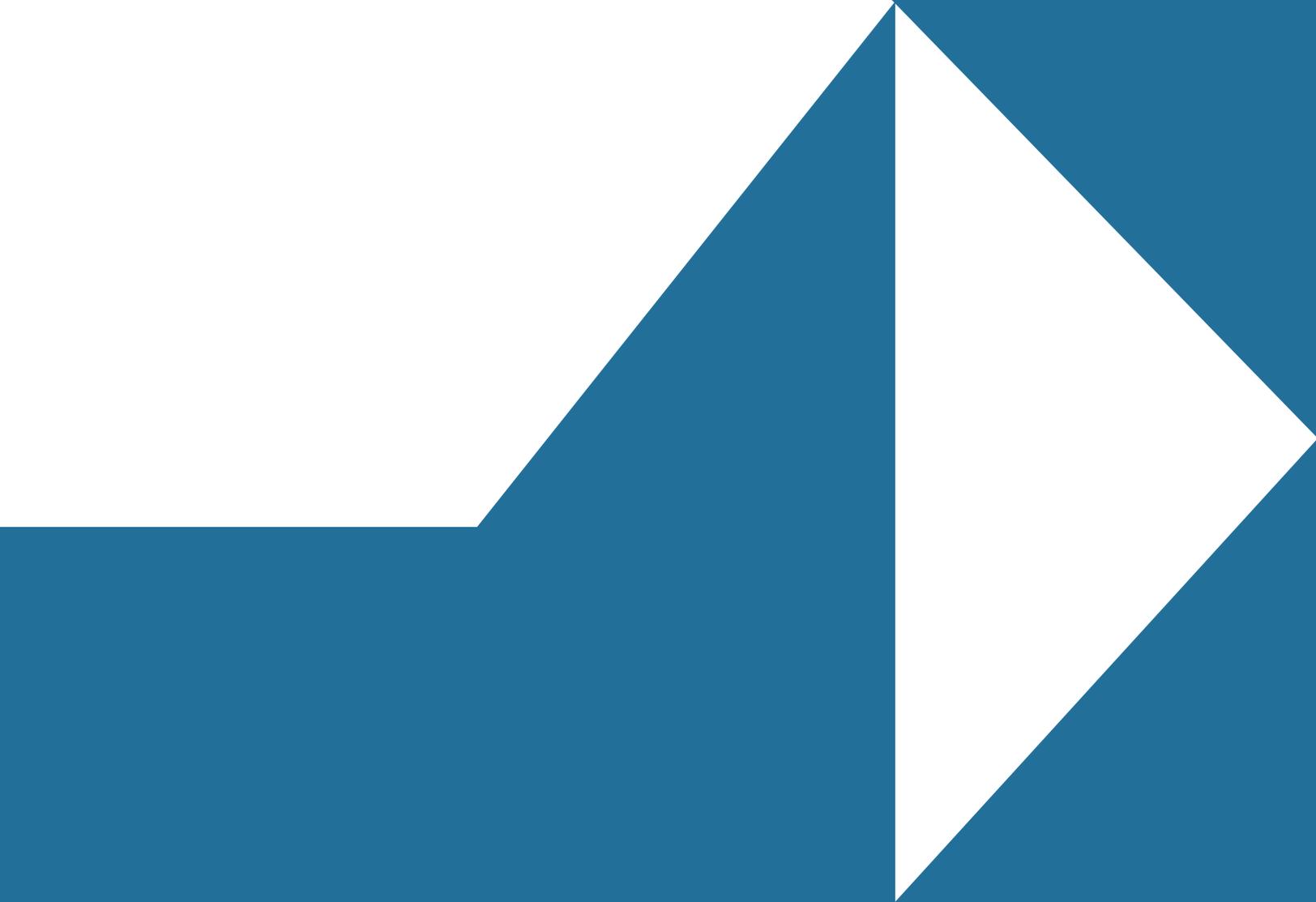
Mott MacDonald

A handwritten signature in blue ink that reads "Cale Madden".

Cale Madden, PE
Principal-in-Charge
Cale.madden@mottmac.com
850.238.3133

A handwritten signature in blue ink that reads "Austin M. Kittok".

Austin M. Kittok, PE
Senior Project Manager – Civil
Austin.kittok@mottmac.com
504-799-0448



**TEC Professional
Services Questionnaire**

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

SOQ 24-013-Provide routine engineering services for Water Projects in Jefferson Parish Resolution #144203

B. Firm Name & Address:



Mott MacDonald, LLC
 650 Poydras Street
 Suite 2550
 New Orleans, Louisiana 70130

C. Name, title and contact information of Principal, as defined in Section 2-926 of the Jefferson Parish Code of Ordinances, who is a registered, licensed architect, professional engineer, or surveyor in the State of Louisiana:

B. Cale Madden, PE

Principal Project Manager – Water/Wastewater
 1022 W 23rd Street
 Panama City, FL 32405

E-mail: cale.madden@mottmac.com
 Phone: 850.238.3133
 LA PE: #43835

D. Name and contact information of employee who is registered and licensed architect, professional engineer, or surveyor in the State of Louisiana in the applicable discipline. A subcontractor may be substituted here only if the advertised Project requires more than on discipline.

Austin Kittok, PE

Senior Project Manager
 650 Poydras Street, Suite 2550
 New Orleans, LA 70130

E-mail: austin.kittok@mottmac.com
 Phone: 504.779.0448
 LA PE: #45850

E. Please provide the number of employees whose primary function corresponds with each category:

<u>310</u> Administrative	<u>6</u> Estimators	<u>2</u> Specification Writers
<u>23</u> Architects (Licensed)	<u>10</u> Geologist	<u>86</u> Structural Engineers
<u>6</u> Chemical Engineers	<u>35</u> Geotechnical Engineers	<u>270</u> Graduate Engineers
<u>215</u> Civil Engineers	<u>1</u> Interior Designers	<u>102</u> Project Managers
<u>57</u> Construction Engineers	<u>1</u> Landscape Architects	<u>43</u> Clerical
<u>1</u> Ecologist	<u>16</u> Land Surveyor	<u>16</u> Grant/Funding Specialist
<u>63</u> Electrical Engineers	<u>48</u> Mechanical Engineers	<u>6</u> Sanitary Engineers
<u>123</u> Engineer Intern	<u>23</u> Environmental Engineers	
<u>16</u> Professional Land Surveyors		<u>2,619</u> Total

F. is this submittal by a JOINT-VENTURE? Please check: YES NO

If marked "No" skip to Section I. If marked "yes" complete sections G-H

TEC Professional Services Questionnaire

G. If submittal is by JOINT-VENTURE, list the firms participating and outline specific areas of responsibility (including administrative, technical, and financial) for each firm. Please attach additional pages if necessary.

1. N/A

2.

H. Has this JOINT-VENTURE previously worked together? Please check:

YES NO

I. List all subcontractors anticipated for this Project. Please note that all subcontractors must submit a fully completed copy of this questionnaire, applicable licenses, and any other information required by the advertisement. See Jefferson Parish Code of Ordinances, Sec. 2-928(a)(3). Please attach additional pages if necessary.

Name & Address:	Specialty:	Worked with Firm Before (Yes or No):
1. N/A	N/A	N/A
2.		
3.		

J. Please specify the total number of support personnel that may assist in the completion of this Project:

We estimate 25 individuals may assist in completing routine engineering services for water projects. More employees can be added, as necessary, should it be needed.

TEC Professional Services Questionnaire

K. List the professional in charge, key persons, specialists, and individual consultants anticipated for this Project and provide their relevant information below. If necessary, please attach additional documentation (i.e. resume) that demonstrates the employment history and experience of the Firm's key persons that may assist in the completion of this Project. Please attach additional pages if necessary.

PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

Cale Madden, PE, Principal Project Manager

Project Assignment:

Principal-in-Charge

Name of Firm with which associated:

Mott MacDonald

Years' experience with this Firm:

With the firm: 9 With other firms: 15

Education: Degree(s)/Year/Specialization

BS, 2015, Civil Engineering; MS, 2017, Civil Engineering

Active registration: Year first registered/discipline:

Professional Engineer: 2019, Civil (LA #43835)

Other experience and qualifications relevant to the proposed Project:

Cale has over 24 years in the construction industry performing numerous heavy civil and commercial projects. He has served as project manager, project engineer, and construction inspector for the replacement of many miles of water and sewer mains by Horizontal Directional Drill (HDD) and open cut methods, as well as participating in many storage, booster, pumping and repumping systems.

MLK/ Fairfax Water Main, Jacksonville Electric Authority (JEA), Jacksonville, FL: Project manager for the design review of a proposed 20-inch water main through a highly congested urban area. The project consisted of replacing an aging critical transmission main and includes open cut installation in heavily congested right-of-ways, HDDs, jack and bore crossings, and service lines all while maintaining service on the existing transmission main.

Deer Point Raw Water Transmission Main, Bay County, FL: Project manager and EOR for the design of a replacement of approximately 2200 lf of 36-inch raw water main including an 1,800 lf subaqueous crossing by HDD under Deer Point Lake. The project required USACE, FDEP, and County permits.

CR 210 Longleaf Pine Parkway to Shearwater Road, JEA, Jacksonville, FL: Senior design engineer for approximately 11,400 lf of 24-inch DI reclaimed water main along Greenbriar Road within St. Johns County. Installation is within St. Johns County right-of-way and requires coordination with the St. Johns County's Engineering and Growth Management Departments to confirm existing and future connection points along the RWM alignment to provide service to existing, proposed, and future reclaimed water customers within the project limits. Prior to progressing to 60% design, the project was put on hold.

New World Ave 24-inch Water Main, JEA, Jacksonville, FL: Senior design engineer for 9,800 lf of 24-inch DI water main along City of Jacksonville POW-MIA Memorial Parkway. Installation was within City ROW with one 42-inch steel cased jack-and-bore. The team also eliminated a second costly jack-and-bore across POW-MIA Memorial Parkway and with an open cut installation with wet tap of the existing 30-inch water main. The costs and constructability of the proposed tie-in method were thoroughly investigated during the 30 percent phase and agreed to by JEA.

Bannon Lakes Reclaimed Water Ground Storage Tank and Booster Pump Station, SJCUD, St. Johns, FL: Engineer. Assisted with the design, permitting, bidding, and construction services for a new reclaimed booster pump station and ground storage tank for the Bannon Lakes service area. The project includes new 2,015 gpm booster pumps with VFDs, 2.0 MG prestressed concrete GST, standby generator and controls, HVAC design, and yard piping connections to the tank.

Preliminary Procurement & Structural Evaluation, Destin Water Users, Destin, FL: 398134 Engineer. Assisted with the preliminary process and structural evaluation of two oxidation ditch type treatment units.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Austin Kittok, PE, Senior Project Manager – Civil
Project Assignment:
Project Manager
Name of Firm with which associated:
Mott MacDonald
Years' experience with this Firm:
With the firm: 7.5 With other firms: 0
Education: Degree(s)/Year/Specialization
BS, 2016, Civil Engineering, Minor in Mathematics
Active registration: Year first registered/discipline:
Professional Engineer: 2021, Civil (LA, #45850)
Other experience and qualifications relevant to the proposed Project:
<p>Austin has a comprehensive background in civil engineering, offering both project management and technical support across various infrastructure projects in Louisiana, Alabama, and Florida. His expertise spans a multitude of areas including roadways, tunnels, aviation, and water systems. He is adept in design aspects like hydraulic and sewer modeling, roadway and water pressure pipe design, as well as overseeing horizontal drilling and open cut water main installation.</p> <p>Water System Pipeline Assessment and Near Term (5-Year) Plan, Jefferson Parish, LA: Project Manager and Engineer of Record responsible for evaluating and identifying critical areas in Jefferson Parish's water system that required replacement. Supervised the assessment efforts conducted by Mott MacDonald, which involved interviews with Parish workers, analysis of GIS records, and utilization of existing water models provided by the Parish. Once the assessment was finished, assisted in updating and prioritizing a list of potential water main failures, encompassing both transmission and distribution mains.</p> <p>Jefferson Parish Waterline Improvements City of Harahan along Jefferson Hwy (Bailey Street to Plantation Drive), Jefferson Parish Water Department, Jefferson Parish, LA: Project Manager and Engineer of Record overseeing the replacement of a 7,000LF section of a 14" cast iron transmission main on Jefferson Highway. The design process involved creating a pressure network design for a new 14" C905 water main, including all necessary service lines, valves, hydrants, and fittings. Collaborated with various entities such as LADOTD, SLFPA, utilities companies, and Jefferson Parish throughout the design phase.</p> <p>FEMA Water Line Replacement Program at St. Anthony and Dillard Neighborhoods, Sewerage and Water Board of New Orleans, New Orleans, LA: Oversees the professional engineering services for FEMA-eligible water main repairs in the St. Anthony and Dillard neighborhoods. The design work involved open cut installation for 8in - 12in water main totaling around 30,000LF. He ensured quality assurance and quality control during the design phase, contributed to the bidding and award process, and is now supervising the construction administration for JIRR projects RR215, RR045, and RR159.</p> <p>Water Strategic Plan, City of Kenner, Kenner, LA: Project Manager for the water strategic plan for the City of Kenner's existing water system. Scope of work consists of analyzing the existing water system and providing goals, needs and methodology for upgrades to the existing water system.</p> <p>West End (Group E), City of New Orleans DPW, New Orleans, LA: Project Manager and Engineer of Record for design of FEMA-eligible street repairs in the West End neighborhood. Scope of work consists of 1800LF of 8"-12" water main replacement, drainage replacement, and sewer repairs located on Bellaire Drive.</p> <p>Bourbon Street Rehabilitation Phase I/II (Canal St. to Dumaine St.), City of New Orleans DPW, New Orleans, LA: Project Engineer responsible for design and construction administration of the full reconstruction of Bourbon Street. Project consisted of over 3000LF of 12" ductile iron water main through means of open cut installation.</p> <p>Water Distribution System Improvements, Big Bend Water Authority, Stienhatchee, FL: Project Engineer who assisted in QA/QC design reviews for 5,000LF of new 8in water main along state highway FL358.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Bruce Nue, PE, CME , Principle Engineer - Water/Wastewater
Project Assignment:
QA/QC – Pipe Networks
Name of Firm with which associated:
Mott MacDonald
Years' experience with this Firm:
With the firm: 32 With other firms: 17
Education: Degree(s)/Year/Specialization
BS, 1975, Civil Engineering; MS, 1980, Environmental Engineering
Active registration: Year first registered/discipline:
Professional Engineer: 2006, Civil (AL #28305; FL)
Other experience and qualifications relevant to the proposed Project:
<p>Bruce has over 45 years of experience in the engineering study, design, and construction of water and wastewater pump stations, metering chambers, and treatment facilities, as well as wastewater collection, water distribution, and storm drainage systems. He specializes in the horizontal directional drilling (HDD) construction method for the installation of water transmission mains and sanitary sewer force mains, having served as project manager for the field reconnaissance, design, permitting, public bid, and construction administration of numerous HDPE and steel casing water mains and sanitary force mains, ranging in diameter from 12- to 45-inches, involving land and subaqueous crossings ranging in length from 350 to 5,300 lf. Bruce served on Mott MacDonald's Trenchless Technology Advisory Committee, where he evaluated and promoted the use of trenchless technology for new road, rail, and infrastructure installation as well as rehabilitations and upgrades. In addition, he serves as a technical resource and peer review of projects being considered for/implemented with trenchless technology construction.</p> <p>St. Johns Nocatee South Reclaimed Water Improvements, SJCUD, St. Johns County, FL: Technical Consultant and QA/QC Reviewer for field studies, design, permitting, and contract delivery document preparation reclaimed water transmission main system reinforcement in St. Johns County rights of way and utility easements.</p> <p>JEA DES Metropolitan Loft Chiller Water Extension, Four Waters Engineering, Inc., Jacksonville, FL: Technical Consultant and QA/QC Reviewer for field studies, design, permitting, and contract delivery document preparation for 12-inch, insulated, welded steel supply and return chilled water mains in urban City of Jacksonville streets.</p> <p>Fairfax Street 1st to 26th Street Water Main, Four Waters Engineering, Inc., Jacksonville, FL: Technical Consultant and QA/QC Reviewer for field studies, design, permitting, and contract delivery document preparation for a 20-inch water transmission main in City of Jacksonville streets with a FDOT right of way crossings by trenchless technology.</p> <p>MLK Fairfax to Brentwood Water Main, Four Waters Engineering, Inc., Jacksonville, FL: Technical Consultant and QA/QC Reviewer for field studies, design, permitting, and contract delivery document preparation for 5400 lf of 20-inch, 1900 lf of 16-inch and 800 lf of 4-inch water mains in City of Jacksonville streets with 2 FDOT and 1 Norfolk Southern right of way crossings by trenchless technology.</p> <p>JEA SIPS Southside Water Main and Davis-Gate Reclaimed Water Main, JEA, Jacksonville, FL: Technical Consultant and QA/QC Reviewer of field studies, design, permitting, and contract delivery document preparation for the installation of 40,500 lf of 30-inch DI raw water main, 15,000 lf of 30-inch DI reclaimed water main.</p> <p>William Burgess to Police Lodge Reclaimed Water Main, JEA, Nassau County, FL: Project Principal for field studies, design, permitting, and contract delivery document preparation for the installation of 11,800 lf of 16-inch PVC reclaimed water main within an FDOT right of way, waterway crossing horizontal directional drills (HDD) totaling 2800 lf with 20-inch HDPE pipe, and FDOT 30-inch steel cased auger jack and bores with the 16-inch PVC reclaimed water main.</p> <p>New World Avenue-Waterworks Water Main, JEA, Jacksonville, FL: Project Principal for field studies, design, permitting, and contract delivery document preparation for the installation of 9,900 lf of 24-inch DI water main. Florida Turnpike First Coast Expressway open cut and cased crossing and a 160 lf FDOT highway and 42-inch steel cased auger jack and bores with the 24-inc DI water main.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Amir Zafar, PE, BCEE, Principal Project Manager – Water/Wastewater
Project Assignment:
QA/QC – Treatment/Conveyance
Name of Firm with which associated:
Mott MacDonald
Years' experience with this Firm:
With the firm: 24 With other firms: 3
Education: Degree(s)/Year/Specialization
BS, 1996, Chemical Engineering; MS, 1998, Chemical Engineering, Concentration in Process Design and Environmental Engineering; MBA, 2010
Active registration: Year first registered/discipline:
Professional Engineer: 2001, Civil (FL #56829); Board Certified Environmental Engineer: 2005
Other experience and qualifications relevant to the proposed Project:
<p>Amir has 27 years of experience in municipal water and wastewater treatment facilities design, pump station, sewer collection system, inflow and infiltration analysis, water distribution system, booster pump station, solid waste management and recycling, stream water quality analysis, regulatory permitting, facility startup, analytical testing, effluent reuse, project funding, and odor control. He has worked on a wide array of process design assignments ranging from process optimization, process modeling, evaluation of wastewater treatment plant expansion and upgrades alternatives, odor control system, and hydraulic analysis. Amir's experience includes sewer collection system, Inflow and Infiltration Studies, hydraulic analysis and modeling, feasibility studies, design reports, development of detailed design drawings, and specifications for facility with capacities that ranged from 1000 Gallons per Day up to 62.5 Million Gallons per Day. He is also experienced with construction phase engineering of water and wastewater treatment and conveyance facilities, as well as start-up and troubleshooting activities.</p> <p>Water System Pipeline Assessment and Near Term (5-Year) Plan, N-Y Associates, Jefferson Parish, LA: Principal Engineer, was responsible for evaluating and identifying critical areas in Jefferson Parish's water system that required replacement. He supervised the assessment efforts conducted by Mott MacDonald, which involved interviews with Parish workers, analysis of GIS records, and utilization of existing water models provided by the Parish. Once the assessment was finished, he reviewed the proposed Capital Improvement Plan (CIP) for water main replacement projects for Jefferson Parish.</p> <p>Water Facilities Plan, Bonifay, FL: Project Director responsible for the preparation of the water facilities plan for Bonifay, Florida. The City current system dates back for 1950 and is at the end of its useful life. The primary purpose for the report is to evaluate condition and adequacy of the existing water facilities to meet current and future needs. The report included a five phased \$15 million capital improvement plan.</p> <p>North Springfield Water System Expansion, Springfield, FL: Project Manager responsible for the design and permitting of the potable water system expansion in the City's north Springfield area. The system was hydraulically modeled utilizing WaterCAD and the project included over 5 miles of water mains, fire hydrants, isolation valves, and new service connection.</p> <p>Marianna Water System Upgrade, City of Marianna, FL: The Marianna water system upgrade project included evaluation of the existing water system, hydraulic modeling to evaluate current and future pressures and fire demands, an updated current water system map, and a Master Plan Report which included prioritized recommendations for repairing, upgrade, and replacement.</p> <p>Mary Esther South Stormwater Pipe Replacement, Mary Esther, Florida: Project Manager responsible for the complete design and construction administration to replace approximately 2500 linear feet of storm water pipe ranging in size from 24-inch to 54-inch in diameter.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Roy Thomas, PE, Principal Engineer – Water/Wastewater
Project Assignment:
Principal Civil Engineer – Water/Wastewater
Name of Firm with which associated:
Mott MacDonald
Years' experience with this Firm:
With the firm: 2 With other firms: 24
Education: Degree(s)/Year/Specialization
BS, 1996, Civil Engineering; MS, Environmental Engineering, 1998; MBA, 2016
Active registration: Year first registered/discipline:
Professional Engineer: 2002, Civil (LA #29936; AL, AR; FL; MI; TX)
Other experience and qualifications relevant to the proposed Project:
<p>Roy has 26 years of design, project, and program management experience of civil and water/wastewater engineering infrastructure projects. This experience includes technical and financial management of projects, as well as oversight of engineering departments, design teams, subconsultants, and contractors. Roy has spent his career as a water professional in the Louisiana region.</p> <p>New Orleans Water Line Replacement Project; Sewerage and Water Board of New Orleans, New Orleans, Louisiana: As part of the Joint Infrastructure Recovery Roads (JIRR) Program, responsible for project management and engineering oversight of the waterline replacement efforts in the Dillard, Filmore, and St. Anthony neighborhoods.</p> <p>Southside Integrated Pipeline System (SIPS), JEA, Jacksonville, Florida: Managed the design and construction administration of a 30" raw water line to connect the two portions of the JEA potable water system. This work included open cut and horizontal directional drilling (HDD) of large diameter pipelines, real estate acquisition, and environmental coordination of the relocation of threatened gopher tortoises.</p> <p>RiverTown Booster Pump Station, JEA, Jacksonville, Florida: Managed the construction administration of a new booster pump station to coincide with the construction of the new RiverTown Water Treatment Plant (WTP).</p> <p>Bayou la Batre Water System Improvements, Mobile County Commission, Mobile, Alabama: Managing the design, bid, and construction administration of a city-wide water line improvement project for Bayou la Batre, Alabama. This project was funded by the RESTORE Act and administered by the Mobile County Commission to replace undersized water lines that were past their useful life.</p> <p>Bob Sikes Bridge Redundant Water Main, Emerald Coast Utilities Authority, Pensacola, Florida: The project involved a redundant water main to be attached to the Bob Sikes Bridge connecting two parts of ECUA's service area. Responsibilities included a quality assurance review of the civil and water main design to ensure compliance with the client's specifications.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Lila Lasecki, PE, Senior Project Manager – Civil
Project Assignment:
Civil Engineer
Name of Firm with which associated:
Mott MacDonald
Years' experience with this Firm:
With the firm: 9 With other firms: 0
Education: Degree(s)/Year/Specialization
BS, 2015, Civil Engineering
Active registration: Year first registered/discipline:
Professional Engineer: 2019, Civil (LA #44145; AL)
Other experience and qualifications relevant to the proposed Project:
<p>Lila is a civil engineer with a specialization in stormwater management and construction engineering. She is skilled in site design using Civil 3D and other, similar software. She has completed trainings in Applied Fluvial Geomorphology and River Morphology and Applications. Lila was the founding Chairwoman of the American Society of Civil Engineers Younger Member Group in Mobile, Alabama.</p> <p>FEMA Water Line Replacement Program at St. Anthony and Dillard Neighborhoods, Sewerage and Water Board of New Orleans, New Orleans, LA.: Project Engineer, provided plan design and review services for FEMA-eligible water main repairs in the St. Anthony and Dillard neighborhoods of New Orleans, LA. The design work involved open cut installation for 8in - 12in water main totaling around 30,000LF. Ensured quality assurance and quality control during the design phase, contributed to the bidding and award process.</p> <p>Bourbon Street Rehabilitation Phase I/II (Canal St. to Dumaine St.), City of New Orleans DPW, New Orleans, LA: Project Engineer responsible for design and construction administration of the full reconstruction of Bourbon Street. Project consisted of over 3000LF of 12” ductile iron water main through means of open cut installation. Other aspects of design included sewer rehab, drainage, and roadway replacement.</p> <p>Little Farms Avenue Rehabilitation, Jefferson Parish, LA: Project Engineer providing design support for the improvement of Little Farms Avenue from Stewart Avenue to Airline Drive. Mott MacDonald is responsible for the coordination between the Parish, the LADOTD, Canadian National Railway, private utility owners, and contractors.</p> <p>West End (Group E), City of New Orleans DPW, New Orleans, LA: Project Engineer for design of FEMA-eligible street repairs in the West End neighborhood. The project scope of work consists of 1800LF of 8”-12” water main replacement, drainage replacement, and sewer repairs located on Bellaire Drive (NO Hammond Hwy – 32nd Street).</p> <p>S. Palmer Gaillard Pump Station Emergency Generators, MAWSS Resiliency Upgrades, Mobile, AL (MAWSS): Engineering support. After performing a facility resiliency study for the Mobile Area Water and Sewer System, the Gaillard and Stickney pump station and water treatment facility were exposed as sub-par. Due to the approaching North Atlantic Hurricane Season, expedited delivery was crucial. This project entailed the preparation of conceptual design for sufficient for generator sizing and tie-in determination, preparation of bidding specifications, advertisement, and review.</p> <p>City of Daphne Recreation Fields Trione Sport Complex, Daphne, AL (City of Daphne): Civil design support. Alongside the Project Manager, the team provided engineering and architectural design services for the proposed parking area, multiuse fields and concessions and maintenance buildings at Trione Park. Design services included three multiuse fields, access drives, parking lots, lighting, landscaping, irrigation, site utilities including water, sewer, electrical and drainage. Design also included concessions and maintenance buildings and corresponding electrical, mechanical and other components for the proposed buildings.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Billy Perry, PE, SI, Principal Project Manager
Project Assignment:
Principal Civil Engineer – Water/Wastewater
Name of Firm with which associated:
Mott MacDonald
Years' experience with this Firm:
With the firm: 20 With other firms: 18
Education: Degree(s)/Year/Specialization
BS, 1982, Civil Engineering; AA, 1979, Civil Engineering
Active registration: Year first registered/discipline:
Professional Engineer: 1988, Civil (FL #40552; AL); Special Inspector: 2003 (FL); Certified Building Contractor: 1987 (FL); Certified Environmental Inspector: 1992
Other experience and qualifications relevant to the proposed Project:
<p>Billy has 38 years of experience overseeing the design, permitting, and construction administration for a variety of civil/site, stormwater, water and wastewater treatment, storage, collection, and transmission, fuel storage systems, and port and marine terminals, and environmental assessment projects. He is a licensed engineer, state certified special inspector, state certified building contractor, and has been involved in the constructibility reviews on many of Mott MacDonald's more complicated projects. Billy's primary area of expertise is in structural systems and hydraulic structures, and he often serves as lead structural engineer in addition to project management duties.</p> <p>A1A Ground Storage Tank and Booster Pump Station, SJCUD, St. Johns County, FL: Senior Project Engineer for the hydraulic modeling efforts and design of a booster pump station and GST for the water system in the A1A service area of St. Johns County. The water model was developed in steady state and converted to an extended period simulation (EPS). Modeling software used was InfoWater by Innovyze. One of the scenarios showed that the County was not meeting fire flow in the lower portion of A1A South near the Matanzas bridge. The project also included a 10 and 30 percent design technical memorandums of the necessary improvements to meet a fire flow of 1,500 gpm. The recommended improvements were a 180,000 gallon ground storage tank and new vertical turbine can booster pumps and jockey pump to use during low pressure periods and fire flow events.</p> <p>Bay County Alternate Water Supply, Bay County, FL: Project Manager and Design Engineer for a new raw water intake and pumping facility in Bay County involving over 10 miles of 36-inch raw water main. The new main transports raw surface water from the northern end of the reservoir to the water treatment facility. Along with open cut installation within FDOT and county right-of-ways, the project included an extensive amount of HDD pipe installations which included a lake crossing and 7 critical areas. The project includes a total HDD length of 12,839 lf, passive intake facility and a 30 MGD triplex pump station near Econfina Creek which feeds the Deer Point Reservoir.</p> <p>TWMP Segment 4 Water Transmission Main, JEA, Jacksonville, FL: Project Director for the design of a 5,100 lf ductile iron water transmission main in a highly congested area of the JEA system. This segment of the Total Water Management Plan project included a 200 lf 36-inch HDPE component installed by the HDD trenchless method. The project included a route evaluation, constructibility analysis, maintenance of traffic, level 4 location of underground utilities using SUE pot holing and various associated agency permits.</p> <p>Panama City Water Model, City of Panama City, Panama City, FL: Project Principal supporting water modeling services and the preparation of a hydraulic model of the Panama City water system using WaterGEMS software.</p> <p>I-10 Utilities Extension, City of Chipley, FL: Project Manager to replace two wells that were threatened by petroleum contamination as well as extend the water and sewer utilities closer to I-10 in response to growing population. The project included two miles of new 10-inch water main with tie-in to the existing main at SR 77, 1,200 gpm potable water well, 300,000-gallon elevated water storage tank, 2,500 lf of 6-inch sewer main, and a 180 gpm sewer pump station. Mr. Perry oversaw the project team and helped navigate the project to meet strict deadlines and budget set forth by the project's funding agencies - NFWFMD and FDEP as well as coordinated with an adjacent FDOT widening project on SR 77 for installation of the water and sewer mains.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
John Scheri, PE, Water Practice Leader
Project Assignment:
Principal Civil Engineer – Water/Wastewater/Reuse
Name of Firm with which associated:
Mott MacDonald
Years' experience with this Firm:
With the firm: 35 With other firms: 1
Education: Degree(s)/Year/Specialization
BS, 1989, Civil Engineering; MS, 1996, Civil and Environmental Engineering
Active registration: Year first registered/discipline:
Professional Engineer: 1994, Civil (NJ #24GE03858600; MD; NY; VA; CT; DE; FL; CO; MA)
Other experience and qualifications relevant to the proposed Project:
<p>John is Mott MacDonald's National Water Practice Leader and has focused most of his career on the planning, design, and construction of water facilities. He routinely serves in a QA/QC role and technical advisor for treatment plant projects. He has extensive experience in various aspects of the planning, design, permitting, and construction of municipal and industrial wastewater treatment facilities. These have included wastewater management master and facilities planning, hydraulic evaluations, assessment of alternative treatment technologies, detailed design, and construction phase engineering.</p> <p>Wastewater Treatment Facility, City of Sterling, Logan County, CO: Project Director and Engineer of Record for the design of a new 3 MGD wastewater treatment plant to replace existing lagoon nitrification facility. The new facility design is for a five stage Bardenpho process with integrated fixed film activated sludge (IFAS) media, new 75-foot diameter clarifiers, new blower building, tertiary disc filters, ultraviolet (UV) disinfection, and reuse of existing lined lagoons for solids holding and treatment.</p> <p>Players Club Water Reclamation Facility (WRF), St. John's County Utilities Department, Ponte Vedra Beach, FL: Lead QA/QC Engineer for the design, permitting, State Revolving Fund loan application and approval, bidding, and construction services for a new 2.4 MGD (6.5 MGD, peak) WRF to consolidate the flow from the Players Club, Innlet Beach, and Sawgrass wastewater treatment plants. The existing steel ring plant will be demolished and replaced with a new advanced wastewater treatment plant, high-level ultraviolet (UV) disinfection, and public access reuse system to serve the surrounding community. The project includes a new headworks with 6-mm screen and vortex grit removal system, biotrickling filter odor control and carbon polisher, 4-stage Bardenpho activated sludge process to meet 5-5-3-1 limits (BOD/TSS/TN/TP), two 75-foot diameter secondary clarifiers, two disk cloth disk filters (10-micron), high-level disinfection system using UV, six vertical turbine reclaimed water pumps to three different off-site reclaimed water uses, and onsite reclaimed water and reject storage ponds. The solids handling systems include return activated sludge (RAS) and waste activated sludge (WAS) pumping, sludge holding tank, and belt filter press dewatering. New split face block buildings were provided for the operations building, blower and main electrical building, and dewatering and chemical feed building.</p> <p>Hastings Wastewater Treatment Plant Phase III I Improvements, St. Johns County, FL: Design QA/QC engineer for the upgrades to the 0.12 MGD (0.6 MGD peak) treatment plant. Performed overall QA/QC of drawings and specifications, with a focus on treatment process implementation, design layouts, and optimization.</p> <p>FEMA Sandy Plant-Wide Restoration and Mitigation: Little Ferry Water Pollution Control Facility, Bergen County Utilities Authority (BCUA), Little Ferry, NJ: Project Director for the design of improvements to restore and improve resiliency of the 94 MGD facility. The project is comprised of work across 10 FEMA Project Worksheets (PWs), including improvements to more than 40 components, such as dry and wet floodproofing, elevation of electrical equipment, and the construction of freestanding floodwalls and submarine doors. Led project initiation activities, alternatives evaluations, and performed QA/QC of project deliverables.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Michael Altland, PE, Principal Project Manager
Project Assignment:
Principal Civil Engineer – Water/Wastewater
Name of Firm with which associated:
Mott MacDonald
Years' experience with this Firm:
With the firm: 36 With other firms: 0
Education: Degree(s)/Year/Specialization
BS, 1988, Civil Engineering
Active registration: Year first registered/discipline:
Professional Engineer: 1993, Civil (NJ #24GE03743100; CA; CO; IL; MD)
Other experience and qualifications relevant to the proposed Project:
<p>Michael has been involved in various water supply and distribution projects, such as transmission mains, pump stations, and master plan studies. He has been involved in all project stages from design to construction. As part of the design and study of pumping stations and distribution systems, Mike has developed expertise in the use of Steady-state computer analysis and the Surge transient analysis computer model. Typical surge analyses have included power failures at booster stations that pump to gradients with elevation differences of 800 to 2,000 feet. Mike is also familiar with other types of surge transients, such as valve closure, and has applied his experience with surge and pressure transients to several projects. He has been extensively involved in the preparation of comprehensive computer models for large water utilities, which involve modeling the distribution system and preparing recommendations for improvements to meet anticipated future supply and demand conditions.</p> <p>Water Distribution System Master Plan, Pittsburgh Water and Sewer Authority (PWSA), Allegheny County, PA: Project Manager for the preparation of a comprehensive water distribution system master plan that identified needs and recommended capital improvements for the pumping, storage, transmission, and distribution system, resulting in a capital improvements program of over \$400 million for 10 years.</p> <p>Water System Assessment Report, Edison Township, Middlesex County, NJ: Leader for the evaluation and capital improvement program (CIP) development for the water system, which services 12,800 residents and includes 810,000 feet of water main. Developed a 10-year \$2.2 million per year CIP.</p> <p>Capital Improvements Program (CIP), Aquarion Water Company, CT, NH, and MA: Task Leader for the preparation of a 30-year CIP to be included in a due diligence evaluation of the system for the purposes of a potential sale of assets. The combined capital program for the systems was in excess of \$100 million annually.</p> <p>Capital Improvements Program (CIP), Suez Water, Rahway, NJ: Project Leader for the development of a 40-year CIP for the City of Rahway water system as part of an operating concession agreement. The program anticipated a total expenditure of approximately \$128 million over the life of the program.</p> <p>Water System Master Plan, City of New Brunswick, Middlesex County, NJ: Assisted in a distribution system study which included the evaluation of the hydraulic adequacy of the system by examining probable deficient areas and conducting coefficient and fire flow tests, evaluation of their results, and preparing recommendations to eliminate the distribution system deficiencies as part of a Master Plan Report.</p> <p>Short Hills System Initial Distribution System Evaluation (IDSE) Modeling, New Jersey American Water, Essex, Morris, and Somerset Counties, NJ: Project Manager for the detailed hydraulic modeling, calibration, and analysis of the 36,000-pipe system. Extended period simulation modeling was used to determine water age in the distribution system as part of the IDSE Modeling.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Douglas Brown, PE, Project Engineer – Water/Wastewater
Project Assignment:
Civil Engineer – Water/Wastewater
Name of Firm with which associated:
Mott MacDonald
Years' experience with this Firm:
With the firm: 5 With other firms: 1
Education: Degree(s)/Year/Specialization
BS, 2016, Civil Engineering; MS, 2018, Civil Engineering
Active registration: Year first registered/discipline:
Professional Engineer: 2021, Civil (FL #92723)
Other experience and qualifications relevant to the proposed Project:
<p>Douglas specializes in the planning, design, and construction of engineering projects as a civil engineering water resource engineer. His technical proficiencies include water and wastewater treatment, water storage, effluent disposal, pressure flow hydraulics, gravity flow (open channel) hydraulics, and water utility planning. Douglas is skilled in an array of software, including ArcGIS products, Bentley water modeling software, ICPR, and the Autodesk suite. Business proficiencies include feasibility studies, water utility master planning, financial analysis, construction administration, project management, and program management. Proven history of successful grant writing and funding acquisition with municipal clients.</p> <p>Water System Pipeline Assessment and Near Term (5-Year) Plan, Jefferson Parish, LA: Engineer responsible for the preparation of a water strategic plan for Jefferson Parish, Louisiana. Work included assisting in the assessment of Jefferson Parish's existing water distribution and transmission system to develop and provide a 5-year plan defining critical areas requiring replacement within the Parish's water system. Mott MacDonald's scope of work consists of evaluating and determining problem areas within the Parish's water system through interviews with Parish workers, GIS records, and existing water models received from the Parish. The assessment included spatial risk analysis, such that a prioritized list of probable water main failures (both transmission and distribution) could be developed. The prioritized list of repairs and replacements total approximately \$125 million over 5-years and conforms to the planned annual capital spending budget of the Parish.</p> <p>Potable Water Strategic Plan, City of Kenner, Kenner, LA: Project Engineer for the water strategic plan for the City of Kenner's existing water system. Mott MacDonald's scope of work consists of analyzing the City of Kenner's existing water system and providing goals, needs and methodology for upgrades to the City's existing water system by working with the City of Kenner to fully understand their current needs and what will be needed in the future.</p> <p>Taste & Odor Treatment Study, Central Elmore Water & Sewer Authority, Wetumpka, AL: Prepared a descriptive report analyzing the most efficient and cost-effective means to reduce and remove seasonal taste and odor compounds from a 6 MGD surface sourced, drinking water supply. The study included the analyses of using ozone, UV + hydrogen peroxide with chlorine quench, UV + hydrogen peroxide with GAC quench, and activated carbon filters to remove geosmin and MIB from the lake Martin raw water supply at the CEWSA water treatment plant. The recommendation ultimately being the addition of GAC to reduce and eliminate the T&O issues. The project is currently undergoing a 1-year pilot study to determine the precise type and amount of carbon required for remediation.</p> <p>St. Andrews Bay Subaqueous Potable Water Main Crossing Inspection Services, Bay County, FL: Provided engineering oversight and construction inspection services representing Bay County for the design build of a 5,300 LF horizontal directional drill (HDD) crossing of St. Andrews Bay at Hathaway bridge with a 24-inch diameter FPVC water transmission main. The project included a horizontal bore, several hundred feet beneath the bottom of the Bay to ensure the security of the new water transmission main. The project also included the land-based ties into active (live) water transmission mains located near both ends of the Hathaway bridge.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Thomas Hachmeister II, PE, Project Engineer – Water/Wastewater
Project Assignment:
Civil Engineer – Water/Wastewater
Name of Firm with which associated:
Mott MacDonald
Years' experience with this Firm:
With the firm: 7 With other firms: 4
Education: Degree(s)/Year/Specialization
BS, 2010, Civil Engineering; AA, 2007, Pre-Engineering Studies
Active registration: Year first registered/discipline:
Professional Engineer: 2010, Civil (FL #89599)
Other experience and qualifications relevant to the proposed Project:
<p>Thomas is a multi-disciplined engineer with experience in water, wastewater, stormwater, general contracting, and project management. He has provided his expertise to a number of projects with our team. Utilizing his skills learned from both Florida State University as well as on the job in a few select contracting companies, Thomas is able to meet challenging opportunities head on and meet tight deadlines with efficiency.</p> <p>Town of Mayo WWTF Improvements, Mayo, FL: Project manager and design lead for design and construction administration of upgrades to the Town of Mayo's Wastewater Treatment Facility. This includes but is not limited to the construction of the following items: headworks, sequencing batch reactors, post equalization basin, disk filter units, chlorine contact chamber, effluent pump station, plant drain pump station, offsite pump station improvements, digester rehabilitation and repurposing, sludge dewatering screw press, sludge feed pumps, operations building, holding pond liner, electrical / instrumentation upgrades, and associated site improvements. Duties include calculations, project document production and review, coordination with permitting agencies, and serving as a client liaison.</p> <p>WWTF Improvements, Big Bend Water Authority, Steinhatchee, FL: Project manager and design lead for design of an expansion to the existing treatment facility which will enhance the current treatment capabilities. These efforts include performing preliminary design investigations, hydraulic analyses, site layouts, and equipment selection.</p> <p>Septic to Sewer Project, Big Bend Water Authority, Steinhatchee, FL: Project manager and design lead for a septic to sewer conversion for existing residences in the Steinhatchee area. The project involved the design of 100+ residential grinder stations and a new force main network to convey the wastewater flow to the wastewater treatment facility. Also assisted with the hydraulic analyses of the pump and force main network and providing design input for the force main sizing and routing.</p> <p>Sewer Rehabilitation, City of Springfield, Springfield, FL: Design Engineer for repairs to the City of Springfield's Sanitary Sewer System. Due to greatly reduced volume of flow through the sanitary sewer system, the wastewater in the sewer lines often remains stationary, becomes septic, and generates harmful and corrosive gasses and results in problems with infiltration and inflow into the system. Performed analyses to ascertain the magnitude and location of incoming wastewater flow, obtained data from various sources and used this information to estimate the necessary pipe size at each length along the proposed sewer line that was being redesigned, and helped generate a final layout of the proposed trunk line replacement. Also participated in cooperative efforts between Mott MacDonald, the City of Springfield, and Bay County Engineering and Utility Departments.</p> <p>I-10 Utilities Extension Project, City of Chipley, Chipley, FL: (343721) Mott MacDonald was tasked with designing a potable water well with sodium hypochlorite disinfection, an elevated 300,000-gallon water tank, over 13,000 lf of 10"-12" water main, a wastewater pump station that can accommodate future development, and over 4000 lf of 2.5" – 6" force main. Mr. Hachmeister helped to design the initial well site plans, the sodium hypochlorite delivery system, and the potable water well components. He coordinated with outside vendors in an effort to develop a practical design and also incorporated comments made by the City representatives into the project.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Heath Roberts, PE, Project Engineer – Water/Wastewater
Project Assignment:
Civil Engineer – Water/Wastewater
Name of Firm with which associated:
Mott MacDonald
Years' experience with this Firm:
With the firm: 7 With other firms: 6
Education: Degree(s)/Year/Specialization
BS, 2017, Mechanical Engineering; AA, 2014, Engineering
Active registration: Year first registered/discipline:
Professional Engineer: 2022, Civil (FL #93379)
Other experience and qualifications relevant to the proposed Project:
<p>Heath has worked on a multitude of projects spanning multiple sectors including port, water/wastewater and development projects. He assists with document creation, drawing creation, specification creation and handling bid documents. He has software experience in Autodesk AutoCAD Civil 3D, Autodesk Revit, Bentley SewerGEMS, and Bentley WaterGEMS.</p> <p>Marianna Waterline and Meter Replacement Study, City of Marianna, Marianna, FL: Project Engineer and Engineer of Record responsible for producing the City of Marianna Potable Water Facility Plan. This project involved the creation of a report which provided evaluation of current water infrastructure, prioritization of required improvements, preliminary planning and design of water meter and water line replacement, and the required information needed for obtaining funding for the Florida Department of Environmental Protection's State revolving Fund. Also coordinated with FDEP personnel to answer requests for information and ensure all SRF funding requirement were met.</p> <p>BBWA Water Meter Replacement, Big Bend Water Authority, Steinhatchee, FL: Engineer responsible for assisting in-field personnel with construction and technical support for meter installation and construction. Provides guidance for SRF compliance related items such as American Iron and Steel Requirements, owner direct purchase management and funds disbursement processing.</p> <p>Area O-11 Improvements, City of Panama City, FL: Project Engineer / Project Manager for the design of Panama City's SRF Area O-11 water, sewer and stormwater improvements located in Downtown Panama City. Oversaw the design of 2,300 LF of gravity sewer replacement, 3,700 LF of water main replacement and 600 LF of stormwater pipe replacement and developed the technical specifications for the project. Also coordinated significantly with Panama City Staff and other engineers due to its close proximity to other projects currently under design. Performed hydraulic modeling on the area to determine required water main sizing.</p> <p>I-10 Utilities Extension, City of Chipley, Chipley, FL: Engineer Intern assisted with document revision using AutoCAD Civil 3D and inspection of completed water mains. Design and construction support for a new 1200 gpm potable water well with sodium hypochlorite disinfection, an elevated 300,000-gallon water tank, two miles of 10- to 12-inch water main, a wastewater pump station that can accommodate future development, and over 6,000 lf of 2.5- to 6-inch force main. Right of way acquisition and FDOT permitting was required.</p> <p>Reclaimed Water Reuse Plan, City of Bonifay, Bonifay, FL: Intern assisted project engineer in document creation and handling. Previously the City's WWTF discharged into Camp Branch tributary, which was placed on the impaired water body list in 2013 with a total maximum daily load established for nutrients and dissolved oxygen. As a result, the City was required to find alternate methods for effluent discharge and disposal. The project involved developing a reclaimed water reuse plan, which included inventory of current and potential future reclaimed water users, cost benefit analysis, and minimum and maximum reuse potential. Our team identified alternatives and potential non-potable demand offset, conducted a preliminary assessment of environmental impacts, evaluated resulting user charges and fees, and evaluated technical feasibility as well as funding sources for construction.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Colton McNac, PE, Project Engineer – Water/Wastewater
Project Assignment:
Civil Engineer – Water/Wastewater
Name of Firm with which associated:
Mott MacDonald
Years' experience with this Firm:
With the firm: 5 With other firms: 0
Education: Degree(s)/Year/Specialization
BS, 2020, Civil Engineering
Active registration: Year first registered/discipline:
Professional Engineer: 2024, Civil (FL #98955)
Other experience and qualifications relevant to the proposed Project:
<p>Colton is a civil engineer involved in the support of project engineer for design of local, state, federal, and private clients. His base of experience includes water and wastewater design for treatment facilities, force mains, gravity sanitary sewer, and lift stations. As a Civil Engineer, he is responsible for supporting the project team in the completion of projects, reports, specifications, and research.</p> <p>ST. Andrews Wastewater Treatment Plant Upgrade, Panama City, FL: Engineering support for multiple phases for the existing wastewater treatment plant that will be upgraded to handle the capacity of future influent flows. Phase 1 includes a new headworks building, new sequencing batch reactors, new blower building and blowers, a post-equalization pump station, new disk filters, new reaeration basin, new chlorine disinfection system, re-purposed reject holding areas, new electrical and control system, new lab building and UV disinfection system. Phase 2 consists of adding 12 MGD effluent pump station, a generator, and a new 24" effluent force main.</p> <p>Replacement of Pump Station 22, Panama City, FL: Engineering support for the design and documentation of the project. The existing pump station is in poor condition, so a new pump station was proposed. This new pump station will tie into the existing piping leading to pump station 22 and will be able to handle the proposed future flow estimation. Following the construction of the new pump station, the existing pump station 22 will be demolished.</p> <p>Improvements to Pump Station 61, Panama City, FL: Engineering support for the design of new pump station 61 includes changing the existing duplex pump system to a triplex pump system. The interior of the wetwell will be resurfaced and improved for the future estimated flow.</p> <p>Chipley Effluent Disposal, Chipley, FL: Engineering support for the design and development of documentation for the new force main, pump stations, and sprayfield. The new force main will be 66,450 feet leading to the new sprayfield consisting of multiple zones. To ensure the future estimated flow can be managed, an intermediate pump station was implemented and will be tapped into the existing effluent piping from the existing wastewater treatment facility.</p> <p>Demolition and Rebuild of Container Freight, Panama City Port Authority, Panama City, FL: Engineering support for the new water/sewer connection to the proposed building that is to be implemented. To handle the capacity of loaded heavy duty trucks, a heavy-duty asphalt and concrete easement was designed. A new storm sewer system was designed to handle the new capacity of water runoff from the proposed warehouse design.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Lucy Lyons, EI, Engineer III - Civil
Project Assignment:
Civil Engineer Intern
Name of Firm with which associated:
Mott MacDonald
Years' experience with this Firm:
With the firm: 1 With other firms: 1
Education: Degree(s)/Year/Specialization
BS, 2020, Civil Engineering
Active registration: Year first registered/discipline:
Engineer Intern: 2023 (LA, #35352)
Other experience and qualifications relevant to the proposed Project:
<p>Ms. Lyons joined has experience providing engineering support for a range of projects including civil/site developments, lift stations, gravity stormwater systems, transportation planning, and roadway construction within both Louisiana and Florida. She is experienced in the development of cost estimates, quantity calculations, pressure pipe design, preparation of specifications, and construction inspection. Miss Lyons has completed the ATSSA Traffic Control Supervisor, Technician and Flagger Work Zone Training Program.</p> <p>Jefferson Parish Waterline Improvements City of Harahan along Jefferson Hwy (Bailey Street to Plantation Drive), Jefferson Parish Water Department, Jefferson Parish, LA: Mr. Lyons is assisting in the preliminary design efforts associated with the replacement of a 7,000LF section of an existing 14" cast iron transmission main on Jefferson Highway, which extends from Bailey Street to Plantation Drive. Sh was responsible for the AutoCAD drafting and preliminary water main alignment of the new pressure network design involving a new 14" C905 water main, including all necessary service lines, valves, hydrants, and fittings.</p> <p>New Orleans Sewerage and Water Board - FEMA Waterline Rehabilitation at St. Anthony and Dillard Neighborhoods, New Orleans, LA: Engineer Intern providing engineering services for construction administration for the design several JIRR projects including RR216, RR045, and RR159 in New Orleans, LA.</p> <p>DPW661 Conti Street Rehabilitation (Bourbon Street to Chartres Street), City of New Orleans, New Orleans, LA: Engineer Intern provided plan development for the full reconstruction of Conti Street surface and subsurface infrastructure from Royal Street to North Peters Street. Mott MacDonald is currently coordinating the design after engaging the City of New Orleans, Department of Public Works, the Sewerage and Water Board of New Orleans, residents, business owners, utilities, and contractors.</p> <p>Lake Terrace and Lake Oaks (Group B), City of New Orleans DPW, New Orleans, LA: Engineer Intern completing design of FEMA-eligible street rehabilitation in the Lake Terrace neighborhood. The project scope of work includes over 3000LF of 8"-10" gravity sewer main, drainage, water, and roadway replacement.</p> <p>Project Storm, City of Panama City, Panama City, FL: Engineer Intern assisting in plan development and design for the rehabilitation and upgrade of various lift stations throughout Panama City. Included the replacement of 350 gpm pumping station, upgrade of 1,200/2,400 gpm pumping station, and new construction of 2,900 gpm pumping station including modeling of complex force main network and maintaining existing system operation during construction.</p> <p>43rd and California Partial Force Main Replacement, City of Kenner, Kenner, LA: Engineer Intern assisting in plan development and construction administration. The project consists of replacing approximately 2000 linear feet of an existing 14" sewer force main through means of horizontal directional drilling. An existing aerial canal crossing will also be replaced as part of this project. The project's scope of work consists of survey, geotechnical engineering, design, construction administration, and resident inspection.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Conner Wick, EI, Engineer III - Civil
Project Assignment:
Civil Engineer Intern
Name of Firm with which associated:
Mott MacDonald
Years' experience with this Firm:
With the firm: 3 With other firms: 0
Education: Degree(s)/Year/Specialization
BS, 2020, Civil Engineering
Active registration: Year first registered/discipline:
Engineer Intern: 2021, Civil (LA #34873)
Other experience and qualifications relevant to the proposed Project:
<p>Connor has experience providing engineering support for a range of projects including civil/site developments, gravity stormwater systems, and roadway construction. He is experienced in the development of cost estimates, quantity calculations, drainage design, stormwater management plans, geometric design, erosion control, maintenance-of-traffic, preparation of specifications, and construction inspection. Connor has completed the ATSSA Traffic Control Supervisor, Technician and Flagger Work Zone Training Program.</p> <p>Jefferson Parish Waterline Improvements City of Harahan along Jefferson Hwy (Bailey Street to Plantation Drive), Jefferson Parish Water Department, Jefferson Parish, LA: Mr. Wick is assisting in the preliminary design efforts associated with the replacement of a 7,000LF section of an existing 14" cast iron transmission main on Jefferson Highway, which extends from Bailey Street to Plantation Drive. He was responsible for the AutoCAD drafting and preliminary water main alignment of the new pressure network design involving a new 14" C905 water main, including all necessary service lines, valves, hydrants, and fittings.</p> <p>New Orleans Sewerage and Water Board - FEMA Waterline Rehabilitation at St. Anthony and Dillard Neighborhoods, New Orleans, LA: Mr. Wick as an Engineer Intern provided engineering services for the development of preliminary design plans, final plans and specifications, bid documents, and construction administration for the design several JIRR projects including RR216, RR045, and RR159 in New Orleans, LA.</p> <p>Water Distribution System Improvements, Big Bend Water Authority, Stienhatchee, FL: Engineer Intern who assisted in preliminary and final design for the installation of 5,000LF of new 8in water main along state highway FL358 for the Big Bend Water Authority. The project was part of a three-phase improvement plan for Stienhatchee, FL drinking water system, funded by the State of Florida State Revolving Fund (SRF), which is approximately \$5 million in funding.</p> <p>Bayou La Batre Water Distribution System Upgrades, Mobile County, AL: Engineer Intern who assisted with the preliminary design for the replacement of more than 80,000LF of 2in to 6in water main distribution systems. Assisted with the AutoCAD drafting of the preliminary design and cost estimate efforts for the project.</p> <p>Conti Street Rehabilitation (Bourbon Street to Chartres Street), City of New Orleans, New Orleans, LA: Engineer Intern provided plan development and CA assistance for the full reconstruction of Conti Street surface and subsurface infrastructure from Bourbon Street to Chartres Street. Mott MacDonald is currently coordinating the design and construction sequenced construction after engaging the City of New Orleans, Department of Public Works, the Sewerage and Water Board of New Orleans, residents, business owners, utilities, and contractors.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Samantha Hanke, EI Engineer III - Water/Wastewater
Project Assignment:
Civil Engineer Intern
Name of Firm with which associated:
Mott MacDonald
Years' experience with this Firm:
With the firm: 1 With other firms: 0
Education: Degree(s)/Year/Specialization
BS, 2021, Civil Engineering
Active registration: Year first registered/discipline:
Engineering Intern: 2023 Civil (FL #1100026552)
Other experience and qualifications relevant to the proposed Project:
<p>Ms. Hanke is an engineer in-training with experience working on water and wastewater designs for various projects within Florida. Some of her experience includes 24-36-inch pipeline design for reclaimed and water mains, wastewater and water treatment facilities, and pump station design. She assists with design, permitting, and construction services for utility providers in Northeast Florida.</p> <p>Players Club WRF, SJCUD, Ponte Vedra Beach, FL: Served as a staff engineer for the Players Club WRF project that consisted of three wastewater treatment plants that consolidated into one plant on the existing site of the Players Club WWTP. The new 2.4 MGD facility provides advanced wastewater treatment and public access reused water to several local golf course ponds.</p> <p>Greenland WRF Pipelines, JEA, Jacksonville, FL: Served as a staff engineer for the progressive design-build contracted with JEA for its new Greenland WRF. The project was broken into three large diameter pressurized pipelines including: 19,300 lf of 24-inch DI water main, 38,700 lf of 24-inch/30-inch/36-inch DI reclaimed water main, and 21,500 lf of 24-inch PVC force main. Both the water main and the reclaimed water mains were along heavily congested ROW along US-1 Phillips Highway, involving complex TTC/MOT plans and coordination with FDOT and FEC Railroad for constructing the pipelines in this area. Each pipeline corridor required open cut, HDD, and jack-and-bore methods of construction in city, state, and FEC railroad ROW and the crossing of wetlands.</p> <p>New World Avenue (Waterworks to Chaffee) 24-inch Water Main, JEA, Jacksonville, FL: Served as staff engineer for a new 24-inch DI water main along COJ/POW Memorial Parkway. The total linear footage is approximately 9,900 lf and includes open cut installation along COJ ROW outside the curb line and within JEA electric transmission lines. The project also required two jack-and-bore, one wet tap and one tie-in connection providing a second connection between the CCC WTP and the North Grid for JEA.</p> <p>Millville WWTP, Panama City, FL: Served as a staff engineer for the design of the UV disinfection improvements for the Panama City Facility. The project included all new equipment for the existing UV disinfection channels along with an open canopy design.</p> <p>Master Lift Stations Odor Control Improvements, SJCUD, St. Augustine, FL: Served as a staff engineer for the Odor Control Improvements for three existing master lift stations in St. Johns County. Ms. Hanke assisted with the construction phase services for the FRP ductwork piping, eyewash station implementation and manufacturer coordination.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Ellis McDaniel, EI, Engineer III - Water/Wastewater
Project Assignment:
Civil Engineer Intern
Name of Firm with which associated:
Mott MacDonald
Years' experience with this Firm:
With the firm: 3 With other firms: 0
Education: Degree(s)/Year/Specialization
BS, 2020, Civil Engineering
Active registration: Year first registered/discipline:
Engineer Intern: 2021, Civil (FL #1100025010)
Other experience and qualifications relevant to the proposed Project:
<p>Ellis is a civil engineer involved in the support of project engineers for the design of local, state, federal, and private clients. His base of experience includes water and wastewater design and construction of force mains, sanitary sewer collection systems, stormwater, potable water, and lift stations. As a Civil Engineer, he is responsible for supporting the project team in the completion of projects through the design and construction phases.</p> <p>West End Water System Improvements, City of Panama City Beach, Panama City Beach, FL: Assisted the project engineer with the design and drafting of new water system improvements. Project consists 6500 L.F. of new water line and to supply residents with improved water service and fire protection. Assisted in the preparation of Plans, Specifications, quantities, and opinion of probable construction cost.</p> <p>ST. Andrews Wastewater Treatment Plant Upgrade, Panama City, FL: Engineering support for multiple phases for the existing wastewater treatment plant that will be upgraded to handle the capacity of future influent flows. Phase 1 includes a new headworks building, new sequencing batch reactors, new blower building and blowers, a post-equalization pump station, new disk filters, new reaeration basin, new chlorine disinfection system, repurposed reject holding areas, new electrical and control system, new lab building and UV disinfection system. Phase 2 consists of adding 12 MGD effluent pump station, a generator, and a new 24" effluent force main.</p> <p>Chipley Effluent Disposal, Chipley, FL: Engineering support for the design and development of documentation for the new force main, pump stations, and sprayfield. The new 14" force main will be 66,000 feet leading to the new sprayfield consisting of multiple zones. To ensure the future estimated flow can be managed, an intermediate pump station was implemented and will be tapped into the existing effluent piping from the existing wastewater treatment facility. Construction Management support and admin during the project's construction. Handled the day-to-day activity during the construction process and performed CEI duties including inspection, oversight, and documentation of field activity.</p> <p>Bayou La Batre Water System Upgrades, Mobile County, AL: Engineering design support for an 80,000 L.F. water system and fire flow upgrade for the city of Bayou La Batre. Prepared drawings and an estimate of cost.</p> <p>Improvements to Pump Stations 11 & 14, Panama City, FL: Assisted the project manager with construction admin and management support during the construction process. Reviewed submittals, pay requests, and assisted with progress meetings. Project consisted of two new pumping stations, new force main, new gravity sewer, and site work to replace existing facilities and improve the client's wastewater system.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Claude Elkins, Designer V - Water/Wastewater
Project Assignment:
Designer - Water/Wastewater
Name of Firm with which associated:
Mott MacDonald
Years' experience with this Firm:
With the firm: 24 With other firms: 14
Education: Degree(s)/Year/Specialization
Gulf Coast Community College, 1992
Active registration: Year first registered/discipline:
N/A
Other experience and qualifications relevant to the proposed Project:
<p>Claude serves as a Senior Designer in Mott MacDonald's Panama City office. He is experienced in all aspects of engineering design for gravity sewer systems, pumping stations, force main networking, water system computer modeling (WAM), storm water conveyance and treatment facilities, storm water modeling, and all phases of state and local permitting. Claude is also experienced in CADD applications used with civil design software such as Civil 3D, SewerCAD, WaterCAD, StormCAD and AutoTurn, and has experience in BIM technology using Autodesk Revit Architecture/Structure/MEP on several projects. Additionally, Mr. Elkins has experiences in other civil design software applications such as ICPR, PondPack, PONDS and HELP.</p> <p>SRF Water Improvements, Bonifay, FL: Layout and design for 25,000 lf of new water lines for replacement/upgrade of portions for the existing water system while maintaining service to existing customers.</p> <p>Water System Improvements, Bayou La Batre, AL: Layout, design, and modeling for 80,000 lf of new portions of existing water system upgrades and replacement while maintaining service to existing customers.</p> <p>Bay County Alternate Water Supply Project: Design of new surface water intake structure, pump station and associated 36" diameter piping for transmission of raw water to existing water treatment plant.</p> <p>CEWSA New Clearwell Tanks: Design of two (2) 1-million-gallon water storage tanks to replace an existing 2 million gallon clearwell, including maintaining continuous operations as well as abandonment of existing tankage and pipework.</p> <p>Springfield CDBG Water and Streets, City of Springfield, Springfield, FL: Design of 4" and 6-inch water lines and accessories for previously developed subdivision area.</p> <p>Marianna SRF drinking Water Improvement, City of Marianna, Marianna, FL: Replacement of a large portion of the City's deteriorated 2" thru 12" water lines with road resurfacing in various areas of the city while maintaining service to all customers during construction.</p> <p>Connect Well 4 to Well 1 Tanks, Aqua Utilities, Sunny Hills, FL: Providing alternative means for filling system potable water storage facilities, while maintaining service to all customers during construction.</p> <p>New Ground Storage Tank, Aqua Utilities, Sunny Hills, FL: Design of 150,000-gallon ground storage tank for existing community.</p> <p>Highway 388/79 Water and Sewer, St. Joe Company, Bay County, FL: Design of new 4" thru 10" water line extension to serve new development, including section installed by horizontal directional drilling.</p> <p>2321 Water line, Bay County, Bay County FL: Design of two miles of new 12" diameter water main extension including section installed by horizontal directional drilling.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Andrew Gibbs, PE, Principal Project Manager - Electrical
Project Assignment:
Electrical Engineer
Name of Firm with which associated:
Mott MacDonald
Years' experience with this Firm:
With the firm: 15 With other firms: 2
Education: Degree(s)/Year/Specialization
BS, 2008, Electrical Engineering
Active registration: Year first registered/discipline:
Professional Engineer: 2013, Electrical (LA #45679; AL; CA; CO; DC; FL; GA; MD; MS; NC; OR; PR; VA; TX)
Other experience and qualifications relevant to the proposed Project:
<p>Andrew is a Principal Project Manager and the Practice Leader for Mott MacDonald's Electrical Engineering and Instrumentation, Controls & Automation (ICA). His broad range of technical experience includes: medium and low voltage power distribution, overcurrent protective device coordination studies, short circuit analysis, load flows, arc flash hazard analysis, interior, exterior area, and roadway lighting, generator paralleling, power factor correction, grounding and lightning protection systems, industrial control systems and networks, SCADA, instrumentation systems, access security systems, airfield visual and navigational aids (aeronautical ground lighting), and electrical inspection. This technical experience has been in the aviation, highways, pipelines, ports and harbors, stormwater, tunnels, water, and wastewater sectors across North America.</p> <p>Water Production Sites Overcurrent Protective Device Coordination and Arc Flash Analysis, Emerald Coast Utilities Authority, Pensacola, FL: Senior Project Manager and Engineer of Record for Overcurrent protective device coordination and Arc Flash Analysis for 33 water production sites, including wells, water treatment plants, and booster pump stations.</p> <p>SIPS Southside Watermain and Davis Gate Reuse Water main, JEA, Jacksonville, FL: Lead electrical engineer and engineer of record for the design of a new intertie and water quality monitoring system. The project consisted of a new potable watermain for transporting finished water from JEA's northern WTPs to the Greenland WTP. A new GST was added at the Greenland WTP to allow for water quality monitoring and storage of the potable water prior to distribution from the Greenland WTP. Performed the required calculations including facility load, service sizing, lightning protection, grounding, conduit/cable sizing, voltage drop, short circuit, and lighting in accordance with NFPA, ANSI, IEEE, and IES standards.</p> <p>Bay County Alternate Water Supply, Bay County Public Works, Bay County, Florida: Electrical Engineer of Record for upgrades to a Raw Water Pumping Station. The station was originally conceived as an alternate water supply station to collect and pump raw surface water from Econfina Creek to the Water Treatment Facility. The upgrades included the addition of a new 4160V, VFD driven, 600 HP Pump and the associated controls and instrumentation.</p> <p>Northeast Water Treatment Plant Ground Storage Tank and High Service Pump Station Upgrades, St Johns County Utility Department, St. Augustine, FL: Electrical Team Leader responsible for overseeing the design and resources for the Electrical and ICA team for the electrical and controls systems upgrades related to the addition of a new ground storage tank and upgrades to the high service pumps.</p> <p>Arc Flash Analysis Update for the Central Water Reclamation Facility, ECUA, Pensacola, FL: Electrical Engineer of Record and Project Manager responsible for conducting and updated electrical system analysis. The preliminary analyses were performed using Power Tools for Windows software and included load flow, voltage drop, short-circuit, over current protective device coordination and an initial arc flash evaluation. The project included field investigation, model development, and system analysis. The facility included 15 kV distribution, 480V, three phase and 208V, three phase utilization with approximately 400 devices located, modeled, analyzed, and labeled.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Lowry Denty, PE, SI, Principal Project Manager - Structural
Project Assignment:
Structural Engineer
Name of Firm with which associated:
Mott MacDonald
Years' experience with this Firm:
With the firm: 28 With other firms: 4
Education: Degree(s)/Year/Specialization
BS, 1993, Civil Engineering
Active registration: Year first registered/discipline:
Professional Engineer: 1998, Civil (LA #438440; AL; CO; FL; GA; MD; MS; NC; TX); Special Inspector: 2001 (FL #2020)
Other experience and qualifications relevant to the proposed Project:
<p>Lowry is a senior structural engineer, project manager, and special inspector, involved in all aspects of project design, administration, and threshold inspections for local, state, federal, and private clients. His broad base of structural engineering experience includes structural design and construction administration for water and wastewater facilities, marine/port structures, aviation facilities, commercial, municipal, educational, and federal operations buildings, parking structures, surge/seawalls, pedestrian and vehicular bridges and boardwalks, and a variety of transportation projects throughout the US. As a project manager he is responsible for providing project, program, and quality management leadership, client communications, business development, budgeting, staffing, and project controls.</p> <p>Players Club Water Reclamation Facility (WRF) Expansion, SJCUD, Ponte Vedra Beach, FL: Structural QA/QC Engineer for the design, permitting, bidding, and construction services for a new 2.4 mgd WRF to consolidate the flow from the Players Club, Innlet Beach, and Sawgrass WWTPs. The project includes screens, grit removal systems, UV, two-10 disk cloth disk filters, belt filter press, and six vertical turbine reclaimed water pumps to three different discharge locations. Project challenges include an accelerated schedule associated with State Revolving Fund (SRF) requirements, improvements that meet AWT limits, creative consolidation of existing flow from the other WWTPs, and maintenance of plant operations during construction.</p> <p>A1A Ground Storage Tank, and Booster Pump Station, SJCUD, St. Johns County, FL: Structural QA/QC Engineer for the necessary improvements to meet a fire flow of 1,500 gpm. The recommended improvements are a 0.18 MG cast-in-place ground storage tank and new split-face block building to house the vertical turbine can booster pumps and jockey pump to use during low pressure periods and fire flow events and new electrical room.</p> <p>Southeast WTP HSP Upgrades, JEA, Jacksonville, FL: Structural EOR for the design, permitting, bidding, and construction services of an upgrade to the high service pump building. The project included five 2,500 gpm pumps and VFDs in a new 3,150 sf split-face block building complete with a new 3-ton bridge crane. The building includes an electrical room, operator work area, and restroom. The project also includes yard piping improvements, new standby generator, VFDs, and controls.</p> <p>Marietta WTP HSP Replacement, JEA, Jacksonville, FL: Structural EOR for the design, permitting, bidding, and construction services of an upgrade to JEA's Marietta WTP. The project includes three new 2,500 gpm horizontal-split case pumps, new standby generator, VFDs, and controls. The new electrical building will be a precast concrete building and will be sized for the upgrades and for future upgrades anticipated at the plant. Structural design includes new concrete pads for the building and generator and pump bases.</p> <p>Central Water Reclamation Facility, ECUA, Pensacola, FL: Structural Engineer for design and construction administration for new BioSolids Facility, O&M Building and miscellaneous chemical and electrical buildings for new 20 MGD advanced waste water treatment facility. Design included concrete, masonry, structural steel and precast construction.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Chad Lyner, PE, Principal Engineer - Structural
Project Assignment:
Structural Engineer
Name of Firm with which associated:
Mott MacDonald
Years' experience with this Firm:
With the firm: 19 With other firms: 7
Education: Degree(s)/Year/Specialization
BS, 2001, Civil Engineering; BS, 1999, Technology
Active registration: Year first registered/discipline:
Professional Engineer: 2006, Civil (AL #28305; FL)
Other experience and qualifications relevant to the proposed Project:
<p>Chad serves as a project manager in Mott MacDonald's structural engineering department. His experience includes structural design and inspection for water and wastewater facilities, coastal and marine structures, municipal, commercial, and industrial buildings, parking structures, pedestrian and vehicular bridges, and other transportation-related projects.</p> <p>Marietta WTP High Service Pump, JEA, Jacksonville, FL: Project Engineer. This project involved the design, permitting, bidding, and general services during construction for the Marietta Water Treatment Plant (WTP) High Service Pump Upgrades project. Some of the major objectives of this project involved furnishing three new pumps (including the piping and valves), providing electrical system upgrades for the pumps, evaluating electrical feed capacity, providing a new emergency power generator, and performing minor building renovations.</p> <p>Bay North Isolation Valve, ECUA, Pensacola, FL: Project Engineer of Record for the relocation of the isolation valve for the subaqueous water line across Pensacola Bay. The project included the subterranean vaults for flow and pressure instrumentation as well as the isolation valve.</p> <p>US-1 South Re-Pump and Booster Pump Station Facility, JEA, Jacksonville, FL: Project Engineer for the civil site design and permitting for a new re-pump station, 1.5 MG prestressed concrete ground storage tank, asphalt drive and parking areas, and associated stormwater infrastructure. Site design also planned and accounted for the future installation of a second ground storage tank. Permitting efforts included securing State of Florida Environmental Resource Permit, FDOT access permit, FDOT Drainage Exemption and City of Jacksonville development review and approval.</p> <p>Bannon Lakes Reclaimed Water Ground Storage Tank and Booster Pump Station, SJCUD, St. Augustine, FL: Project Engineer for the civil site design and permitting of a new reclaimed booster pump station, 2M gallon ground storage tank and associated asphalt drive and parking areas. Project challenges included site location within an existing PUD with approved stormwater management plan but which had yet to be fully constructed particularly with respect to stormwater collection/transmission facilities intended to serve the project site. Mott MacDonald coordinated with permitting agencies to develop interim stormwater management design/criteria necessary for State of Florida Environmental Resource permit and St. Johns County Land Development permits.</p> <p>Preliminary Procurement & Structural Evaluation, Destin Water Users, Destin, FL: Project Engineer. Assisted in the preliminary process and structural evaluation of two oxidation ditch type treatment units.</p> <p>McMillan St. Wastewater Pump Station Rehabilitation, JEA, Jacksonville, FL: Project Engineer for the McMillan Street Class III/IV Pump Station rehabilitation, whose peak flow capacity totals more than 42 mgd and an average flow of 14.5 mgd. The project consists of the installation of new influent sluice gates, a multi-rake bar screen, replacement of four extended control shaft vertical centrifugal pumps, a biotrickling filter odor control system, structural rehabilitation of the deteriorated portions of the station exposed to sewer gases, and electrical upgrades including conversion to 480 volt service.</p>

TEC Professional Services Questionnaire

L. Work by Firm or Joint-Venture members which best illustrates current qualifications relevant to this Project. Please include any and all work performed for Jefferson Parish. Please attach additional pages if necessary.

PROJECT NO. 1

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Jefferson Parish Water System Pipeline Assessment and Near Term (5-Year) Plan Jefferson Parish, LA</p> <p>Jefferson Parish Water Department Sidney J. Bazley, Director 1221 Elmwood Park Blvd Suite 909 Elmwood, LA 70123 504.736.6744</p>	<div style="display: flex; justify-content: space-between;"> <div style="width: 70%;"> <p>The Jefferson Parish Water Department recognized the need to implement a water system pipe rehabilitation and replacement program and requested an updated water criteria assessment of the existing water systems located on both the East and West Banks of the Parish. Mott MacDonald and N-Y Associates developed new criteria to complete the assessment based on guidance provided by Jefferson Parish. Efforts were also placed on providing the Parish with comparisons of all pipe segments previously evaluated in 2008 by MWH Global Inc. to demonstrate how the assessment had reevaluated these specific pipe segments.</p> <p>The evaluation of Jefferson Parish's water system consisted of both transmission and distribution mains ranging from 4" to 60" diameter pipes. All pipe segments were evaluated using the updated criteria to determine problem areas within the Parish's existing water system. Such evaluations were completed through interviews with Parish workers, GIS records, and existing water model data received from the Parish. After a full assessment was completed, a prioritized list was developed of probable water main failures of both transmission and distribution mains. Additional analysis was completed to provide Jefferson Parish with an order of magnitude construction cost estimate with 30% contingency, to replace the assessed mains.</p> <p>Through discussions with the Parish a detailed budget was developed for their water replacement program and a Capital Improvement Plan (5-year CIP) was organized to prioritize future projects based upon impact to the system. A report detailing the methodology taken during the evaluation process along with the recommendations for the CIP was provided to Jefferson Parish.</p> </div> <div style="width: 25%; text-align: center;">  </div> </div>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2022	\$250,000.00	\$125,000.00

TEC Professional Services Questionnaire

PROJECT NO. 2		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Jefferson Parish Waterline Improvements City of Harahan along Jefferson Hwy (Bailey Street to Plantation Drive) Jefferson Parish, LA</p> <p>All South Consulting Engineers, LLC Jens J. Nielsen, Jr., PE, Water Program Manager 652 Papworth Avenue Metairie, LA 70037 504.322.2783</p>	<p>Jefferson Parish Water Department is currently implementing a capital improvement plan to upgrade their existing water system for both transmission and distribution mains as part of the evaluations developed by the team of Mott MacDonald and N-Y associates in 2022.</p> <p>Mott MacDonald was contracted to complete one of these CIP projects associated with the replacement of the existing 14” cast iron transmission main on Jefferson Highway, stretching from Bailey Street to Plantation Drive. This project includes updating all associated service lines, valves, hydrants, and fittings, as well as necessary roadwork. Mott MacDonald is the prime consultant for all engineering services to see the project through to completion, including attending meetings and public hearings.</p> <p>The water main, measuring 14 inches in diameter and spanning approximately 7,000 linear feet, will undergo evaluation for installation methods such as open cut and pipe bursting, wherever feasible. The project poses challenges in terms of construction and design, primarily due to its proximity to the Mississippi River. This necessitates obtaining levee permits and implementing construction sequencing based on river heights. Additionally, the project runs alongside state highway LA48, necessitating close coordination with LADOTD to effectively sequence construction activities and minimize disruptions to local traffic. Furthermore, the project serves multiple large-scale warehouses within its boundaries, requiring the maintenance of larger service lines throughout the construction process to ensure adequate fire pressure and public safety for all structures.</p> <p>During the preliminary phase, Mott MacDonald and our team of subconsultants conducted a topographic survey, notified utility companies, coordinate utility relocations, and drafted preliminary plans for approval. The next phase will involve developing comprehensive construction documents, securing permits, and finalizing cost estimates. During the bidding stage, Mott MacDonald will support in the bidding process, providing analysis and recommendations. The construction phase will entail supervising contract implementation, conducting regular site inspections, and coordinating with utility providers.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2026 (est.)	\$5.1M	\$471,216.00



TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Southside Intergrated Pipeline System (SIPS) Southside Watermain and Davis-Gate Raw Watermain Jacksonville, FL</p> <p>JEA Beth DiMeo, PE, r. Manager – Project Management 225 N Pearl Street Jacksonville, FL 32202 904.665.8139</p>	<p>The state of Florida issued regulations governing the withdrawal of groundwater in the Jacksonville area. These regulations allowed for the pumping of groundwater north of the St. Johns River, but did not allow for additional withdrawal south of the river.</p> <p>This project consisted of a new potable watermain for transporting finished water from JEA's northern Water Treatment Plants (WTPs) to the Greenland WTP on the south side. This included the installation of 40,500 liner feet (lf) of 30-inch ductile iron (DI) raw water main and 15,000 lf of 30-inch DI reclaimed water main.</p> <p>Mott MacDonald completed field studies, design, permitting, and contract delivery documentation for installation of the new pipelines, which involved waterway and FDOT right-of-way horizontal directional drills (HDD). A new ground storage tank (GST) was also added at the Greenland WTP to allow for water quality monitoring and storage of the potable water prior to distribution from the Greenland WTP.</p> <p>The project is currently in construction, with Mott MacDonald providing construction administration services. This includes review of HDD fusion logs and project submittals, as well as coordination of real estate activities for site access and environmental concerns such as the relocation of gopher tortoises along the project route. Completion of the project is estimated in mid-2026.</p>	
	 <small>3/21/2024 9:57</small>	
	 <small>3/19/2024 10:12</small>	
	 <small>3/19/2024 14:02</small>	
	Estimated Cost:	
Completion Date (Actual or estimated):	Entire Project:	Work for which Firm was Responsible:
2026 (est.)	>\$100M (engineering and construction)	\$3.1M

TEC Professional Services Questionnaire

PROJECT NO. 4		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>St. Anthony and Dillard Waterline Replacement New Orleans, LA</p> <p>Sewerage and Water Board of New Orleans Susan Diehl, JIRR Deputy Program Administrator 8800 S. Claiborne Ave New Orleans, LA 70118 504.930.7209</p>	<p>The Sewerage and Water Board of New Orleans appointed Mott MacDonald with professional engineering services for the water main replacement of the St. Anthony and Dillard neighborhoods as part of the JIRR FEMA-eligible waterline replacement program.</p> <p>As part of this contract, Mott MacDonald developed design plans, bidding documents, and completed construction administration for the replacement of approximately 30,000 LF of 8in – 12in distribution water mains within New Orleans, LA. The installation methods used to install these water mains included open cut and pipe bursting and complied with Sewerage and Water Board design standards, AWWA specifications, and the City of New Orleans Department of Public Works guidelines.</p> <p>Our team has been responsible for professional engineering services pertaining to water main replacement for the following JIRR projects associated with this contract:</p> <ul style="list-style-type: none"> • RR031 Dillard Group A • RR032 Dillard Group B • RR159 St. Anthony Group A • RR045 Filmore South Group D • RR161 St. Anthony West Group C • RR156 St. Anthony East Group B • RR157 St. Anthony East Group C • RR198 West End Group F • RR197 West End Group E • RR196 West End Group D • RR195 West End Group C <p>Each project was coordinated with the City of New Orleans Department of Public Works, Sewerage and Water Board of New Orleans, LA Department of Transportation submerged roads programs, and other relevant stakeholders.</p>	
	 	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2025 (est.)	\$100M	\$3,364,084.77

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>RiverTown Booster Pump Station Jacksonville, FL</p> <p>JEA Mickey Willoughby, Project Manager 225 N Pearl Street Jacksonville, FL 32202 865.661.7494</p>	<p>Mott MacDonald provided design, bid, and construction administration services for the RiverTown Reclaimed Water Booster Pump Station for JEA in Jacksonville, FL. The booster pump station is a completely prefabricated entity that includes the building enclosure, 4 VFD controlled pumps, two 8-foot-wide rollup doors, HVAC system, bypass piping to allow flow to bypass the booster pumps during low demand conditions, flow meter, and controls (both programmable logic control and SCADA). Yard piping is included to connect the booster pump station to the existing 20-inch reclaimed water mains that will feed the booster pump station and return the boosted water to the reclaimed distribution system. Additional yard piping will include gravity sewer drains from the booster pump station to the sewer system and potable water piping with backflow preventer, if needed, to provide wash water piping to feed hose bibbs.</p> <p>Site improvements include minor grading, a fence to match existing, an access driveway, and a manual slide gate for vehicle entry. Electrical improvements including site lighting, generator/fuel tank for 100% backup power, automatic transfer switch, instrumentation and controls, and design criteria for the VFDs for the reuse pumps, main station control panel, main-tie-main switchboard, and low voltage distribution equipment. The generator design was based on JEA facilities preference for a belly fuel tank for the generator.</p> <p>Mott MacDonald oversaw the geotechnical and SUE field work to evaluate the general subsurface conditions within the area planned for the booster pump station. The project is currently in construction, with Mott MacDonald providing construction administration services.</p> <div style="text-align: center;">  <p>JEA Building Community®</p> </div>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2024	\$2.9 M (engineering and construction)	\$272,000

TEC Professional Services Questionnaire

PROJECT NO. 6		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Water Distribution System Improvements Steinhatchee, FL</p> <p>Big Bend Water Authority Mark Reblin, General Manager 1313 First Av SE Steinhatchee, FL 32359 352.498.3576</p>	<p>Big Bend Water Authority (BBWA) is located in Steinhatchee, FL and provides potable drinking water to approximately 1,800 customers. BBWA has initiated a three-phase improvement plan for its drinking water system, funded by the State of Florida State Revolving Fund (SRF), which is approximately \$5 million in funding.</p> <p>Phase 1 focused on replacing outdated water meters in Steinhatchee and Jena, totaling approximately 1,300 units. Our team provided planning services for the project, which included locating funding opportunities and developing the general scope of the project. Design services were provided during which the meter technical specifications, bid documents, and location of the meter replacements were determined. We are also assisting construction services, including contractor oversight, scheduling, project controls, and vendor coordination.</p> <div style="display: flex; justify-content: space-around;">   </div> <p>Phase 2 involves the replacement of around 5,100 linear feet of existing 6-inch transite pipe with new valves and hydrants along Riverside Dr, between Park Av and 13th St SE.</p> <p>Finally, Phase 3 aims to enhance water infrastructure in Jena by replacing and constructing new water mains, improving the overall water service delivery and reliability. 1,500 linear feet of an existing 8-inch water main will be replaced on the 10th St East bridge over the Steinhatchee River. Roughly 5,000 linear feet of new 8-inch water main will be constructed along Hwy 358 in Jena, extending from the 10th St East bridge to Hwy 361. This phase also includes replacing sections of the old 6-inch water main and installing new valves and hydrants, with the old transite pipe being abandoned in favor of the new infrastructure.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
<p>Phase 1: 08/2024 Phase 2: 2025 Phase #: 2026</p>	\$9.5M (est. construction cost)	\$1M (engineering and CEI fee)

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Alternative Water Supply Facility Bay County, FL</p> <p>Bay County Bobby Gibbs, Utility Services Director 3410 Transmitter Road Panama City, FL 32404 850.248.5012</p>	<p>Bay County Utility Services Department provides potable water to the surrounding communities of Panama City, Panama City Beach, Callaway, Lynn Haven, Tyndall Air Force Base, and five other nearby utilities. Bay County draws its raw water for treatment and supply from the Deer Point Reservoir, including up to 60 million gallons per day of drinking water to residents and visitors.</p> <p>A report commissioned by the Northwest Florida Water Management District (NFWFMD) showed that a 100-year storm event, roughly equivalent to a Class 3 hurricane, could potentially overtop the dam with storm surge, making the raw water in the reservoir unusable. Bay County Utility Services and County Administrators determined that a new raw water intake and pumping facility was required to provide increased redundancy and reliability to the current water supply system. With the continued threat of hurricane storm surges jeopardizing the raw water source near its current intake structure, Bay County launched its Alternative Water Supply Project.</p> <p>Bay County chose the design-build delivery method for the project and retained the team of Phoenix Construction and Mott MacDonald to construct a facility that would deliver 50 MGD of raw water through approximately 11 miles of pipeline from the northern end of the reservoir to the water treatment facility without causing significant harm to water resources or the ecology of the area. Mott MacDonald's design of the new facilities included a 30 MGD triplex vertical turbine pump station (1,800 hp total), 10.8 miles of 36-inch raw water main, and passive intake facility with screens, back-up generator power, and telemetry.</p> <p>Various options for the pipeline route were considered with the selected route based on access, ease of maintenance, constructability, and impacts to the environment. The installation of the raw water main included a 1,200 lf aerial pipe crossing at the dam and a 1,500 lf subaqueous crossing by HDD under Cedar Creek. Although a good portion of the work avoided construction in the road right-of-way through use of a Gulf Power easement, approximately half of the pipe alignment was constructed in Bay County road right of way, which required detailed MOT plans for implementation. In addition, a hydraulic model and surge analysis of the pumping and piping system was completed, which indicated negative pressures would occur if the flow instantly stopped. To accommodate this surge, a 25,000-gallon surge tank was included along with combination air/vacuum valves which eliminated surge issues.</p> <p>Due to close collaboration with regulators, contractors, and suppliers, we met the goal of building a state-of-the-art facility \$400,000 under budget and four months ahead of schedule. Our team established an alternative intake site and route that, although slightly longer, drastically reduced environmental impacts and constructability issues.</p>	
		
		
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2018	\$23.4M	\$2M

TEC Professional Services Questionnaire

PROJECT NO. 8		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>I-10 Utilities Extension Chipley, FL</p> <p>City of Chipley Patrice Tanner, City Administrator 1442 Jackson Ave Chipley, FL 32428 850.638.6350</p>	<p>The City of Chipley required improvements to their drinking water, wastewater, and stormwater systems to address existing concerns and growing population south of the interstate. Grants were obtained through NFWMD and FDEP as the primary funding source. Mott MacDonald performed hydraulic modeling, design, permitting, bidding, and construction services. The project included two miles of new 10-inch water main with tie-in to the existing main at State Road 77, 1,200 gpm potable water well, 300,000-gallon elevated water storage tank, 2,500 lf of 6-inch sewer main, and a 180 gpm sewer pump station.</p> <p>Contaminant plume migration from the area threatened two existing city wells - the City Well (400 gpm) and Blackburn Well (400 gpm). To protect the aquifer, prevent use of potentially contaminated water quality, and serve the expanded area, our team replaced these with one larger well (1,200 gpm). Mott MacDonald began by conducting a detailed search to identify the optimal new well site. To do this, Mott MacDonald identified the location of all registered petroleum stations in the area and one-mile radiuses around each site to find uncontaminated locations. Once the ideal location was identified, drilling was complicated by the intricate network of the Floridan Aquifer. With input from NFWMD personnel and their database as well as from other local drillers, Mott MacDonald was able to successfully hit our target well location.</p> <p>Installation of the water and sewer mains required close coordination with an adjacent project through FDOT to widen SR 77. Mott MacDonald performed extensive coordination with the project's engineer, FDOT, and the City to align each project with the SR 77 construction and install the water and sewer mains within the right-of-way. Permitting was successfully accomplished to keep the project construction on-schedule. This included a consumptive use permit for the new well and increased capacity and the abandonment of the two existing well sites. FDEP design and construction permits were obtained for water and sewer. A land use change was required through the county for the new well. FDOT permits were required for construction in SR 77 right-of-way and driveway connections.</p> <p>Mott MacDonald utilized RS Means and other recognized databases as well as specialty cost estimating consultants and our area contract networks to develop our engineering estimate. The actual construction cost came in \$340K under our estimate. Focused bid strategies, experienced constructability reviewers a keen awareness of market material costs, well written specifications and bid price controls, and a definitive basis of payments helped keep the project on budget. Mott MacDonald developed specifications and established construction administration procedures including timely RAI responses and monthly scheduled construction meetings. Local resident inspector oversight and an on-call well construction inspector were also provided.</p>	
 		
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2018	\$3.1M	\$3.1M

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Bayou La Batre Water Distribution System Upgrades Mobile County, AL</p> <p>Mobile County Commission S. Matthew Jones, PE, Acting Deputy – Env. Services Director 205 Government Street Mobile, AL 36644-1801 251.574.3229</p>	<p>Upgrades are being made to the Bayou La Batre Water Distribution System, including the replacement of more than 80,000-linear feet of 2-inch water lines with 6-inch or larger lines to improve water pressure and increase capacity. The project will help to provide adequate fire protection and support residential, business, and recreational growth and development in the service area. Mott MacDonald is responsible for project planning, development of construction documents, and permitting assistance for the water system and fire flow upgrade.</p> <p>This project is funded by the RESTORE Act, which allows for coastal communities impacted by the 2010 Deepwater Horizon oil spill to apply for funding to make improvements to needed infrastructure. Once the design is approved by the U.S. Treasury Department, Mott will provide bidding and construction administration services to construct these needed improvements.</p> <div style="text-align: right; margin-top: 20px;">  </div>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2026 (est.)	\$13M (est. Construction)	\$450,000.00

TEC Professional Services Questionnaire

PROJECT NO. 10		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Players Club Water Reclamation Facility Ponte Vedra Beach, FL</p> <p>St. Johns County Utility Department Scott Trigg, PE, Project Manager 1205 State Road 16 Saint Augustine, FL 32084 904.209.2622</p>	<p>To improve the effluent quality of treated wastewater and produce public-access reclaimed water in Ponte Vedra, St. Johns County Utility Department underwent its largest capital project to-date – the new Players Club Water Reclamation Facility. This effort consolidated wastewater flows from three existing wastewater treatment plants – Players Club, Innlet Beach, and Sawgrass.</p> <p>Mott MacDonald designed this advanced wastewater treatment facility with headworks equipped with a 5 mm fine screen, and a vortex grit removal system, biotrickling filter odor control and carbon polisher, a four-stage Bardenpho treatment process with Micro-C and alum to meet TN of 5 mg/L and TP of 1 mg/L, secondary clarifiers, tertiary disk filters, and ultraviolet disinfection to public access reuse standards. Reclaimed water is stored in onsite ponds prior to pumping to one of several golf courses or discharged in wet weather events to surface waters. Solids are pumped to a holding tank and pressed in the dewatering facility prior to disposal. The plant's capacity is an average daily flow of 2.4 mgd and 6.5 mgd peak capacity.</p> <p>The plant employs an energy-efficient aeration system using turbo blowers and fine bubble diffusers to optimize the dissolved oxygen in the treatment trains. This 5-acre site (excluding the ponds) also required design and permitting of a single wet detention facility, asphalt drives and parking areas, concrete sidewalks, and other ancillary features necessary for a complete and functional WRF. The site also includes a 3312 sf operations/laboratory building, dewatering building, as well as a combined blower and main electrical building. The WRF is protected by an earthen berm from CAT 2 storm surge and buildings and other critical facilities are at two feet above the 100-year flood event. Special coatings were used for any exposed metals for the buildings to protect them from the salt air.</p> <p>Project challenges include an accelerated design schedule associated with State Revolving Fund (SRF) requirements, improvements that meet advanced wastewater treatment limits, creative consolidation of existing flow from other wastewater treatment plants, and maintenance of plant operations during construction. To meet the requirements to secure the State Revolving Fund low interest rate loan, the project followed an accelerated design schedule. Design was completed in nine months and construction was substantially completed in 24 months, five months ahead of schedule. This project is critical to providing high level wastewater treatment reliably and cost-effectively, as well as delivering reclaimed water to customers in the area. The new facility will allow for a 60% reduction in nutrients. Treated water will most times be 100% recycled and is used to irrigate adjacent golf courses.</p>	
	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2019	\$32M	\$4.2M

TEC Professional Services Questionnaire

M. List all prior and/or on-going litigation between Firm and Jefferson Parish. Please attach additional pages if necessary.

Parties:		Status/Result of Case:
Plaintiff:	Defendant:	
1. N/A	N/A	Mott MacDonald does not have any prior and/or on-going litigation with Jefferson Parish.
2.		
3.		
4.		

N. Use this space to provide any additional information or description of resources supporting Firm's qualifications for the proposed project.

The following information will elaborate on Mott MacDonald's qualifications, specifically addressing the evaluation criteria outlined in the request for Statements of Qualifications.

Professional training and experience

Mott MacDonald has demonstrated a particular strength in water and reclaimed water systems planning, design, management, and construction administration. We work with our clients to formulate policy, secure funding, and implement plans that contribute to the sustainable management of water resources.

Mott MacDonald delivers solutions to our clients that are durable, cost-effective, efficient, and sustainable. Our experts are directly involved in the development of the water/wastewater industry. We participate in trade association regulatory committees, conduct industry research, and help develop standards of practice. This allows us to stay current and to offer state-of-the-art tactics to help you address the regulatory trends that affect you.

We are experienced in securing grants and funding, acquiring permits, communicating with regulatory agencies, providing expert testimony, preparing reports and operating manuals, training client personnel, providing field personnel, and conducting inspections.

Mott MacDonald recognizes that the business of water and sewer sector management is ever-changing. We are sensitive to the frequently modified regulatory requirements and how they affect your operations and rates. We strive to help you sustain moderate and affordable utility costs for your customers.

This section will focus on the primary areas of experience that have specific application to Jefferson Parish's envisioned improvements and upgrades to its water systems for repairs, restoration system expansions, and improvements typical of a continuing general services agreement. Our team's strong local knowledge of Jefferson Parish's infrastructure, programs, and goals, combined with our extensive firm experience in evaluating, designing, permitting, and overseeing water projects throughout the U.S. makes us especially qualified to provide the requested engineering services for Jefferson Parish.

#9

of top global design firms in the water market

#19

of top environmental firms for water treatment and supply

According to Engineering News Record's 2023 ranking of top global design firms and top environmental firms.

TEC Professional Services Questionnaire

Water supply and treatment

Water supply is about providing safe, dependable, and affordable drinking water now, and in the future. The Mississippi River is the source of drinking water for Jefferson Parish East and West Bank residents. As such, our staff is very familiar with Jefferson Parish standards and can work closely with the operations and engineering staffs to help build-in standard layouts to create consistency between the Parish's treatment sites. With growing demands on our public water system, maintaining this precious but limited resource is critical. Mott MacDonald is a hub of technology, collaboration, and innovation when it comes to water supply and reclamation for both sourcing and treatment. We deploy cutting-edge technologies to improve resiliency, add value, and reduce costs. Aging and/or inadequate water supply systems have been expanded, rehabilitated, and upgraded to acceptable standards through Mott MacDonald's comprehensive engineering approach. Projects involve increasing water plant capacities, replacing or repairing antiquated equipment and materials, correcting inadequate treatment processes, cleaning and cement mortar lining of water mains and extending transmission mains to solve particular problems.

Reclaimed water

Recycling water has become a viable method for communities in the southern and western regions of North America for groundwater replenishment, cooling water demands, and irrigation uses. Now, even communities located in areas with abundant water see water reuse as an economically viable and environmentally sound water supply source. Mott MacDonald helps clients achieve the advantage of recycling process water, especially as end-of-pipe treatment and disposal costs continue to increase. Industries can see significant benefits from water reclamation aside from cost savings, such as reduced water demand, recovery of production materials, and reduced regulatory costs.

Pumping stations and hydraulic structures

To operate over a large range of flows, pump stations often need built-in flexibility — sustaining energy efficiency, minimizing operational and maintenance requirements, and optimizing a facility's useful life. Mott MacDonald has produced hundreds of designs that have been built and operated for decades. Many have delivered several decades of continuous service before mechanical upgrades were required. Our facilities range in capacity to more than 250 MGD.



Figures 1 and 2. Our team designed a new raw water intake and pumping facility to provide increased redundancy and reliability to the current Bay County, FL water supply system. The new facilities for the Alternate Water Supply included the following major equipment and structures: 30 MGD triplex vertical turbine pump station (1,800 hp total); 10 miles of 36-inch raw water main; and passive intake facility with screens, back-up generator power, and telemetry.

All Mott MacDonald pump stations are designed to satisfy the client's basic flow and hydraulic requirements, while focusing on minimizing the capital costs, optimizing energy efficiency, and satisfying facility performance objectives. For any range of design flows, we can deliver projects using prefabricated stations or one-of-a-kind customized facilities that incorporate screening, comminutors, disinfection, and/or odor controls.

Our team is also known for its hydraulics expertise and knowledge of all types of pumping facilities. We have a particular strength in the rehabilitation and upgrading of existing pumping facilities to meet new flow or hydraulic conditions.

TEC Professional Services Questionnaire

Transmission and distribution

Buried infrastructure is a vital element of water systems that is often overlooked. Designing, building, and maintaining transmission and distribution systems requires an in-depth understanding of flow control, monitoring, metering, pressure regulation, surge protection, and rehabilitation methods. Our team is highly experienced in gravity and pressurized pipeline planning, design, permitting, and construction.

We are very experienced with the construction requirements and the practical considerations that must be incorporated into the design effort when installing sewer piping systems. Mott MacDonald has extensive experience in the design and construction elements of various large diameter pipelines (from 8-inch to over 102-inch diameter) constructed through areas constrained by extensive networks of highways, existing utilities and storm sewers, including small and large diameter water mains through urban areas as well as through suburban and rural communities. We have also evaluated pipeline rehabilitation techniques and designed improvements to extend the useful life of existing buried infrastructure.



Figure 3. Our team works with numerous local utility providers in Louisiana, Alabama, and Florida to perform citywide water system upgrades. We have assisted the City of Springfield, FL (pictured) in obtaining the necessary funding as well as provide modeling and analysis, design, permitting, and construction services.



Figure 4. When Bay County, FL was undertaking their largest trenchless project to-date and needed a trusted advisor, they selected Mott MacDonald as Owner's Representative and Resident Engineer to oversee the design and construction for this 5,290-foot-long 24-inch HDD underneath St. Andrews Bay.

In many instances, the proposed pipeline routes require installation across sensitive wetlands, highways, or rivers and streams, where conventional open cut techniques cannot be employed. In these cases, other trenchless technologies must be evaluated. Trenchless technologies offer tremendous advantages for the construction and rehabilitation of water pipelines. They are often the only practical solutions for construction or rehabilitation in environmentally sensitive areas, waterways, high-density urban areas, and areas not amenable to transitional construction practices.

Mott MacDonald is consistently ranked as one of the leading underground consulting firms by Trenchless Technology and Tunnels & Tunneling magazines. We have successfully completed long horizontal directional drilling (HDD), jack and bores, direct pipe, and curved microtunneling projects. Our professionals have been instrumental in helping develop many of the best practices for the industry, including guidelines for the American Society of Civil Engineers (ASCE) and the North American Society of Trenchless Technology (NASTT).

For pipeline projects, preparation of detailed route analysis including cost and non-cost criteria (environmental, social) must be considered. We understand the balance required among capital costs, operational ease, and maintenance efficiency and will use this knowledge and past lessons learned to benefit Jefferson Parish.

TEC Professional Services Questionnaire

Hydraulic modeling, capacity analysis, and planning

Mott MacDonald is experienced in creating, updating, calibrating, and adjusting water system models, performing capacity analysis, and comparing against future demands, identifying prioritized improvement projects, construction cost estimating, communicating with regulatory agencies, providing expert testimony, preparing reports and operating manuals, training client personnel, providing field personnel, and conducting inspections. This range of expertise makes it possible for us to complete all water, sewer, and reclaimed water services with in-house resources.

We have a long history of providing planning services to many utility providers, districts, cities, and counties for their water systems. Our scope of planning services ranges from single scope, one-time work with small communities on grant-funded projects to complete program management for some of the largest water systems in the country. We have extensive experience handling even the most complex GIS data and scouring as-built plans for the creation of accurate system models in multiple software packages, including WaterGEMS and SewerGEMS. We utilize our hydraulic models to identify system improvement needs related to reliability, looped systems, fire suppression requirements, pressure zones, and point to point capacity flow. We have experience with potable systems, gray water, re-use systems, industrial systems, and combined systems.

Electrical, automation, instrumentation, and controls

Modern water and wastewater control systems can vary in complexity, requiring standalone controls integration of smart devices, programmable logic controllers (PLC), computers, networks, databases, and other high technology equipment with systems operations. We have experience in locations related to a water and utility including treatment facilities, including simple standalone pump stations as well as large master pump station.



Figure 5 and 6. Mott MacDonald is experienced in all aspects of electrical design for utility facilities, including power, lighting, communication, automation, instrumentation, and control systems.



Mott MacDonald's automation, supervisory control and data acquisition (SCADA), and information technology (IT) specialists excel in creating system architectures that support this level of complexity while ensuring process optimization and system integration for the water marketplace. With an excellent depth of knowledge in assessing and designing around problematic issues, our highly experienced electrical engineers integrate the latest technologies in all phases of design to deliver practical, sustainable, energy-efficient, and high-performance solutions. Furthermore, we consider safety to be of the utmost importance for all planning and design projects. Regardless of the type of project, we emphasize safety in the construction, maintenance, and operation.

Mechanical systems

Mott MacDonald offers comprehensive, in-house experience with mechanical systems related to treatments processes such as pumps, screens, aerators, mixers, and dryers, as well as building mechanical systems in use at administration and support facilities such as heating, ventilation, and air conditioning.

Storage facilities

Mott MacDonald has extensive experience in the design of all types of new and upgraded water storage facilities. Water tanks may be constructed of steel, bolted steel, precast/prestressed concrete, cast in place concrete, or composite steel/concrete. We have also been responsible for the inspection and rehabilitation of tanks, including blasting and recoating, removing lead-based coatings (including containment systems), upgrading overflow and venting systems, upgrading ladders/handrails, and complying with OSHA and local regulatory requirements.



Figure 7. 350,000 gallon elevated potable water storage tank for the City of Chipley, FL



Figure 8. Water storage facility for the Central Elmore Water and Sewer Authority, which included two new 1 MGD pre-stressed concrete clearwell ground storage tanks, 24-inch DI pipe, electrical, and SCADA systems, associated site work, and demolition of existing facilities.

TEC Professional Services Questionnaire

Size of firm

Mott MacDonald is a global, full-service engineering, management, and development firm.

We are one of the world’s largest employee-owned companies, with 20,000 employees and over 180 offices delivering projects in the buildings, digital, energy, environment, transportation, and water and wastewater sectors. Mott MacDonald in North America is a vibrant infrastructure development and engineering company with more than 60 offices and 2,600 staff in the United States and Canada.

We offer the advantages of size and stability that come from a \$2 billion global consultant, paired with the personal service and accessibility of a small, local firm. We will leverage our local presence of 200 Gulf Coast professional engineering and administrative staff in our Louisiana, Alabama, Florida, and Texas offices, and supplement their strong water qualifications with additional staff who are considered national experts in their areas of expertise.

Whether it be a single task order or multiple simultaneous assignment, the diverse capabilities and depth of resources of Mott MacDonald enable us to respond to any need presented by Jefferson Parish. We have proven experience assembling the right resources, selecting the appropriate task leads, and successfully provide routine engineering services on an on-call basis.

Capacity for timely completion

Mott MacDonald has the ability to accommodate the anticipated work associated with this project with consideration for current and anticipated workloads and staff commitments.

We have an extensive depth of resources, which can be mobilized at short notice to accommodate the anticipated project schedule and any acceleration that may be required. Similarly, should any delays occur, our resources will be placed on standby, ready to resume work when notified. In addition, Mott MacDonald routinely implements major projects on a multi-office basis to engage the staff with the right skills and experience for the project tasks at hand. Therefore, in addition to local resources, we have the ability to engage staff from other offices as required.

Our Project Manager, Austin, works from our New Orleans office and will regularly visit Jefferson Parish to verify ongoing communications and throughout the duration of our on-call contract. As tasks become defined, individuals will be mobilized and committed to the on-call tasks as required. In selecting our team members, we have reviewed their current and future work assignments to confirm that there are no conflicts or obstacles that would prevent them from performing the required scope of services for this project. All key personnel will be available when needed and committed to completing the project on schedule.

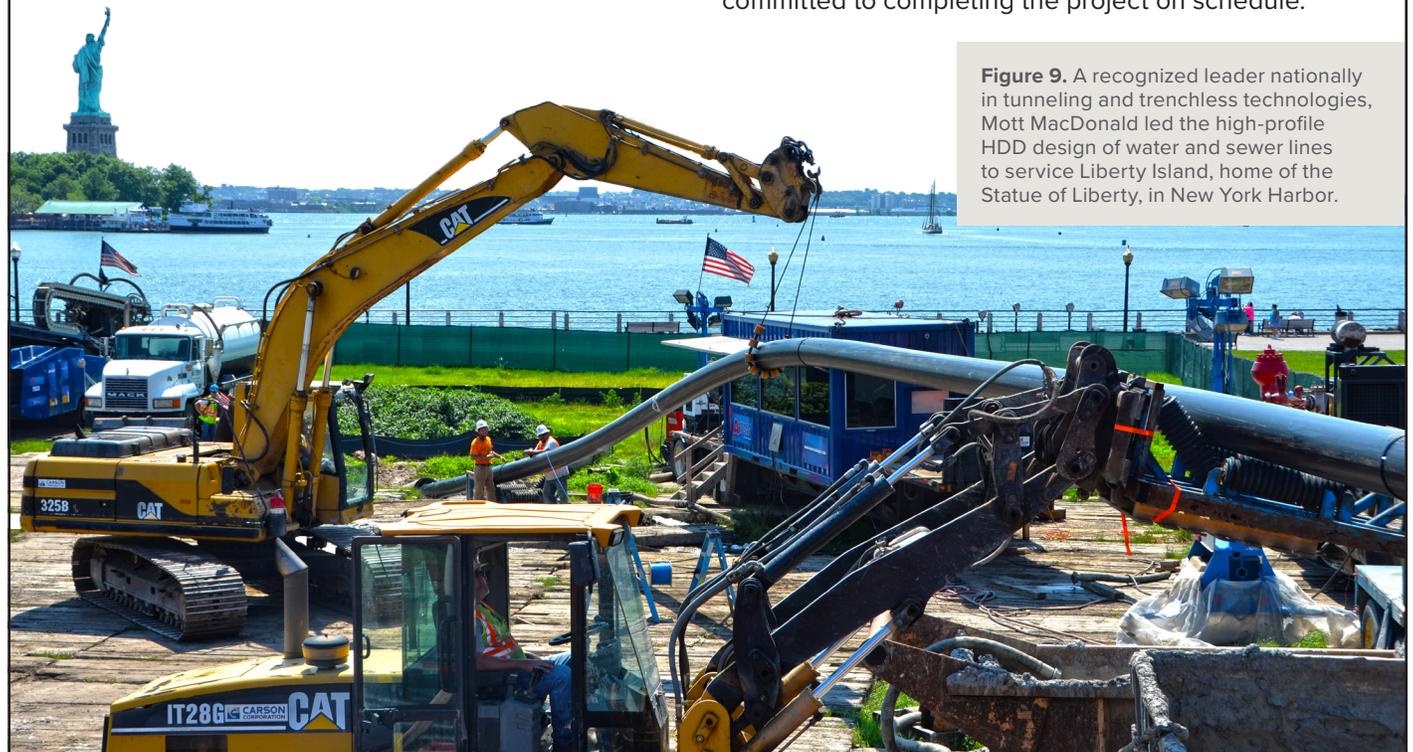


Figure 9. A recognized leader nationally in tunneling and trenchless technologies, Mott MacDonald led the high-profile HDD design of water and sewer lines to service Liberty Island, home of the Statue of Liberty, in New York Harbor.

TEC Professional Services Questionnaire

Past performance on Parish contracts

Mott MacDonald has worked with Jefferson Parish staff within several departments within the Department of Public Works and pride ourselves on the work provided to the community on the contracts we've been a part of.

Our past performance on these contracts can be obtained from the Director of Public Works.

Location

Our local office is located at 650 Poydras Street, Suite 2550, New Orleans, Louisiana, less than an hour from Jefferson Parish. Our local team can be on site to support Jefferson Parish quickly to assist with mitigating any challenges that arise.

Mott MacDonald has invested heavily in our cloud-based IT infrastructure to enable the majority of our technical work to be completed remotely. For many years, Mott MacDonald has leveraged cloud technology and developed processes and procedures to deliver projects effectively and successfully in a secure environment utilizing staff from multiple offices. This allows us to put the right people on each assignment regardless of where they are located, and to work together as if they were in the same office. Not only does this enable us to collaborate more effectively with internal and external stakeholders, but also helps our clients optimize workflow and meet requirements and timelines.

Adversarial legal proceedings

Mott MacDonald does not have or has ever had any adversarial legal proceedings involving Jefferson Parish.

Prior successful completion of projects

Please refer to our relevant projects included within Section L.



Figure 10. Mott MacDonald has been providing engineering services out of our New Orleans office for over 20 years.

Mott MacDonald appreciates the opportunity to present our experienced staff, our proven past performance on relevant water projects, and our range of capabilities and expertise to provide comprehensive water utility engineering services. We look forward to the opportunity to further build upon our relationship and continue supporting Jefferson Parish in the delivery of engineering services for your water projects.

O. To the best of my knowledge, the foregoing is an accurate statement of facts.

Signature:

Print Name:

David Skipper, PE

Title:

Senior Vice President

Date:

June 21, 2024



Non-Public Works Bid Affidavit

Non-Public Works Bid

AFFIDAVIT

STATE OF Florida

PARISH/COUNTY OF Santa Rosa

BEFORE ME, the undersigned authority, personally came and appeared: _____
David Skipper, PE, (Affiant) who after being by me duly sworn, deposed and said that he/she is the fully authorized Senior Vice President of Mott MacDonald (Entity), the party who submitted a bid in response to Bid Number 24-013, to the Parish of Jefferson.

Affiant further said:

Campaign Contribution Disclosures

(Choose A or B, if option A is indicated please include the required attachment):

Choice A _____ Attached hereto is a list of all campaign contributions, including the date and amount of each contribution, made to current or former elected officials of the Parish of Jefferson by Entity, Affiant, and/or officers, directors and owners, including employees, owning 25% or more of the Entity during the two-year period immediately preceding the date of this affidavit or the current term of the elected official, whichever is greater. Further, Entity, Affiant, and/or Entity Owners have not made any contributions to or in support of current or former members of the Jefferson Parish Council or the Jefferson Parish President through or in the name of another person or legal entity, either directly or indirectly.

Choice B there are **NO** campaign contributions made which would require disclosure under Choice A of this section.

Debt Disclosures

(Choose A or B, if option A is indicated please include the required attachment):

Choice A _____ Attached hereto is a list of all debts owed by the affiant to any elected or appointed official of the Parish of Jefferson, and any and all debts owed by any elected or appointed official of the Parish to the Affiant.

Choice B There are **NO** debts which would require disclosure under Choice A of this section.

Affiant further said:

That Affiant has employed no person, corporation, firm, association, or other organization, either directly or indirectly, to secure the public contract under which he received payment, other than persons regularly employed by the Affiant whose services in connection with the construction, alteration or demolition of the public building or project or in securing the public contract were in the regular course of their duties for Affiant; and

[The remainder of this page is intentionally left blank.]

That no part of the contract price received by Affiant was paid or will be paid to any person, corporation, firm, association, or other organization for soliciting the contract, other than the payment of their normal compensation to persons regularly employed by the Affiant whose services in connection with the construction, alteration or demolition of the public building or project were in the regular course of their duties for Affiant.



Signature of Affiant

David Skipper, PE

Printed Name of Affiant

SWORN AND SUBSCRIBED TO BEFORE ME

ON THE 19 DAY OF June, 2024.



Notary Public

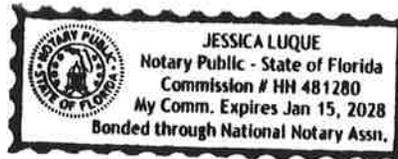
Jessica Luque

Printed Name of Notary

HH 481280

Notary/Bar Roll Number

My commission expires 1/15/28





Appendix A. Proof of Licenses

TEC Professional Services Questionnaire

The Louisiana Professional Engineering and Land Surveying Board has the following information on file:

Name: Mott MacDonald, LLC
Public Address: 111 Wood Avenue South

License/Certificate Information w/ Supervision

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
EF.0003450	Active	04/18/2006	09/30/2024	Mr. James Brent Rawson # PE.0022345 ; Mr. Thomas Louis Ussery III # PE.0035157



TEC Professional Services Questionnaire



**LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)**
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Brandon Cale Madden

License/Certificate Type - Number	Expiration Date
PE.0043835	03/31/2026

Status: **Active**



**LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)**
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Austin Michael Kittok

License/Certificate Type - Number	Expiration Date
PE.0045850	03/31/2026

Status: **Active**



**LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)**
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Roy Eugene Thomas

License/Certificate Type - Number	Expiration Date
PE.0029936	03/31/2026

Status: **Active**



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(LAPELS)**
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Ms. Lila Jean Lasecki

License/Certificate Type - Number	Expiration Date
PE.0044145	03/31/2026

Status: **Active**



**LOUISIANA PROFESSIONAL
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(LAPELS)**
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Ms. Lucy Marie Lyons

License/Certificate Type - Number	Expiration Date
EI.0035352	09/30/2025

Status: **Active**



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(LAPELS)**
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Conner Bryan Wick

License/Certificate Type - Number	Expiration Date
EI.0034873	09/30/2024

Status: **Active**

TEC Professional Services Questionnaire



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 9643 Brookline Avenue, Suite 121
 Baton Rouge, LA 70809
 Phone (225) 925-6291
 www.lapels.com

Mr. Andrew Kent Gibbs

License/Certificate Type - Number	Expiration Date
PE.0045679	09/30/2025

Status: **Active**



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 9643 Brookline Avenue, Suite 121
 Baton Rouge, LA 70809
 Phone (225) 925-6291
 www.lapels.com

Mr. Lowry Jay Denty

License/Certificate Type - Number	Expiration Date
PE.0038440	03/31/2026

Status: **Active**



Ron DeSantis, Governor
 Melanie S. Griffin, Secretary

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

LYNER, CHAD EDWARD
 5484 MILL HOUSE CIRCLE
 PACE FL 32571

LICENSE NUMBER: PE66277
 EXPIRATION DATE: FEBRUARY 28, 2025
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 Melanie S. Griffin, Secretary

STATE OF FLORIDA
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PERRY, BILLY R.
 1022 WEST 23RD STREET
 SUITE 680
 PANAMA CITY FL 32405

LICENSE NUMBER: PE40552
 EXPIRATION DATE: FEBRUARY 28, 2025
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SCHERI, JOHN J.
 31 KROGH'S LANE
 SPARTA NJ 07871

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State Of New Jersey
New Jersey Office of the Attorney General
Division of Consumer Affairs

THIS IS TO CERTIFY THAT THE
Board of Prof. Engineers & Land Surveyors

HAS LICENSED

MICHAEL L. ALTLAND
 111 Wood Avenue South
 Iselin NJ 08830

FOR PRACTICE IN NEW JERSEY AS A(N): Professional Engineer

03/02/2024 TO 04/30/2026
 VALID

24GE03743100
 LICENSE/REGISTRATION/CERTIFICATION #

Signature of Licensee/Registrant/Certificate Holder
Signature of Acting Director

PL IF YOUR CERTIFIC...
 Board of P...
 Newark, NJ

TEC Professional Services Questionnaire



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LICENSEE DETAILS 9:19:15 AM 6/14/2024

Licensee Information

Name:	ZAFAR, AMIR (Primary Name)
Main Address:	3540 TOKEN RD PANAMA CITY Florida 32405
County:	BAY

License Information

License Type:	Professional Engineer
Rank:	Prof Engineer
License Number:	56829
Status:	Current,Active
Licensure Date:	02/15/2001
Expires:	02/28/2025

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LICENSEE DETAILS 9:23:21 AM 6/21/2024

Licensee Information

Name:	NEU, BRUCE A (Primary Name)
Main Address:	10245 CENTURION PARKWAY N. STE. 320 MOTT MACDONALD JACKSONVILLE Florida 32256
County:	DUVAL

License Location:
MOTT MACDONALD
10245 CENTURION PARKWAY NORTH, SUITE 320
JACKSONVILLE FL 32256

County:
DUVAL

License Information

License Type:	Professional Engineer
Rank:	Prof Engineer
License Number:	51672
Status:	Current,Active
Licensure Date:	05/12/1997



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LICENSEE DETAILS 4:00:58 PM 6/19/2024

Licensee Information

Name:	HACHMEISTER, JOHN THOMAS II (Primary Name)
Main Address:	9147 SUNSHINE DRIVE YOUNGSTOWN Florida 32466
County:	BAY

License Information

License Type:	Professional Engineer
Rank:	Prof Engineer
License Number:	89599
Status:	Current,Active
Licensure Date:	05/29/2020
Expires:	02/28/2025



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LICENSEE DETAILS 1:19:17 PM 6/14/2024

Licensee Information

Name:	HANKE, SAMANTHA C (Primary Name)
Main Address:	7760 LISA DRIVE E JACKSONVILLE Florida 32217
County:	DUVAL

License Information

License Type:	Engineering Intern
Rank:	Eng Intern
License Number:	1100026552
Status:	Current
Licensure Date:	03/14/2023
Expires:	

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LICENSEE DETAILS 1:21:24 PM 6/14/2024

Licensee Information

Name:	MCDANIEL, WILLIAM ELLIS (Primary Name)
Main Address:	728 LAKE DR LAUREL HILL Florida 32567
County:	OKALOOSA

License Information

License Type:	Engineering Intern
Rank:	Eng Intern
License Number:	1100025010
Status:	Current
Licensure Date:	07/28/2021
Expires:	



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LICENSEE DETAILS 1:13:00 PM 6/14/2024

Licensee Information

Name:	BROWN, DOUGLAS LANE (Primary Name)
Main Address:	927 TAYLOR DRIVE PANAMA CITY Florida 32404
County:	BAY

License Information

License Type:	Professional Engineer
Rank:	Prof Engineer
License Number:	92723
Status:	Current,Active
Licensure Date:	11/01/2021
Expires:	02/28/2025



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Licensee Information

Name:	ROBERTS, CHRISTOPHER HEATH (Primary Name)
Main Address:	7150 W. HWY 98 2305 PANAMA CITY BEACH Florida 32407
County:	BAY

License Information

License Type:	Professional Engineer
Rank:	Prof Engineer
License Number:	93379
Status:	Current,Active
Licensure Date:	01/25/2022
Expires:	02/28/2025



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LICENSEE DETAILS 1:18:05 PM 6/14/2024

Licensee Information

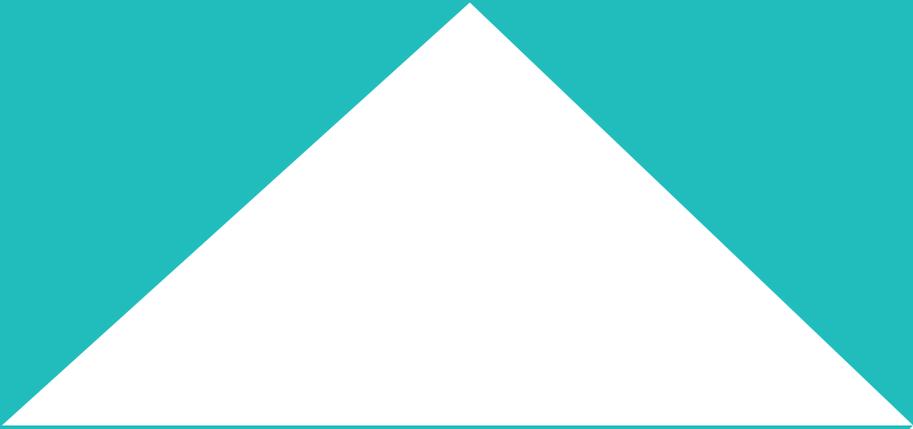
Name:	MCNAC, COLTON ZANE (Primary Name)
Main Address:	928 BRADFORD CIR LYNN HAVEN Florida 32444
County:	BAY

License Information

License Type:	Professional Engineer
Rank:	Prof Engineer
License Number:	98955
Status:	Current,Active
Licensure Date:	05/24/2024
Expires:	02/28/2025



Appendix B.
Proof of Insurance



For more information
mottmac.com