



**Prepared for :**

Jefferson Parish Government

**Date :**

02/10/2023

**RFQ ID :**

SOQ 23-002

Resolution No. 140877

# Routine Engineering Services for Water Projects

## Technical Services Proposed

**Submitted By :**

Quality Engineering & Surveying, LLC  
18320 HWY 42, Port Vincent, LA 70726  
o: 225.698.1600 | f: 225.698.3367  
Fed Tax ID # 26-4396984

**Approved By :**

Deric J Murphy, CEO of QES  
18320 HWY 42, Port Vincent, LA 70726  
o: 225.698.1600 | f: 225.698.3367  
DMURPHY@QESLA.COM





18320 LA HWY 42  
Port Vincent, LA 70726  
225.698.1600  
info@qesla.com  
www.qesla.com

February 10, 2023

Attention:  
Parish of Jefferson  
Purchasing Department

RE: Parish of Jefferson, Louisiana  
Public Notice "SOQ 23-002"- Routine Engineering Services for Water Projects

Dear Proposal Evaluator,

In response to the above referenced public notice, Quality Engineering and Surveying, LLC (QES) hereby submits to the Parish of Jefferson our letter of interest and all required documents. We understand the Parish's need to create a supplemental list of professional engineering firms qualified to provide routine engineering services for Water Projects.

As a locally owned and operated, emerging business, and Louisiana licensed engineering and surveying firm our team is passionate about a successful outcome for the Parish of Jefferson's potential future projects. Our team of professionals include subject matter experts in a variety of disciplines, thus offering the Parish of Jefferson a strategic partner that will work tirelessly as the Parish's program representative to ensure the projects undertaken deliver maximum results. As your program's representative your goals are our team's goals, and the Parish's project will benefit greatly from our proven effective Engineering Services.

Our team acknowledges the ability to quickly deploy project staff from our local Port Vincent office. QES also acknowledges the absence of adversarial legal proceedings between the Parish and our firm.

The Parish of Jefferson's primary point of contact for the RFQ is:

Deric J. Murphy, PE, LSI  
(225) 698-1600  
President | Principal in Charge  
dmurphy@qesla.com

We appreciate the opportunity to submit our qualifications and look forward to hearing from you about the possibility of working with the Parish of Jefferson.

Sincerely,



Deric J. Murphy, PE, LSI  
President | Principal in Charge



## TEC Professional Services Questionnaire

**A. Project Name and Advertisement Resolution Number:**  
**SOQ No. 23-002 "Routine Engineering Services for Water Projects"**  
**Resolution No. 138809**

**B. Firm Name & Address:**

Quality Engineering & Surveying, LLC  
 18320 Hwy 42  
 Port Vincent, LA  
 70726



**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:**

Deric J. Murphy, PE, LSI  
 President | Principal in Charge  
 18320 Hwy 42  
 Port Vincent, Louisiana 70726  
 (225) 698-1600  
 dnmurphy@qesla.com

**D. Name and contact information of employee who is a 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 one discipline.**

William Purser, PE  
 18320 Hwy 42  
 Port Vincent, Louisiana 70726  
 wpurser@qesla.com  
 (225) 698-1600

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

|                                      |                                     |                                   |
|--------------------------------------|-------------------------------------|-----------------------------------|
| <u>10</u> Administrative             | <u>    </u> Estimators              | <u>    </u> Specification Writers |
| <u>    </u> Architects (Licensed)    | <u>    </u> Geologists              | <u>    </u> Structural Engineers  |
| <u>    </u> Chemical Engineers       | <u>    </u> Geotechnical Engineers  | <u>    </u> Graduate Engineers    |
| <u>10</u> Civil Engineers            | <u>    </u> Interior Designers      | <u>9</u> Project Managers         |
| <u>1</u> Construction Inspectors     | <u>3</u> Landscape Architects       | <u>6</u> Clerical                 |
| <u>    </u> Ecologists               | <u>6</u> Land Surveyor              | <u>4</u> Grant/Funding            |
| <u>    </u> Electrical Engineers     | <u>    </u> Mechanical Engineers    | <u>    </u> Sanitary Engineers    |
| <u>5</u> Engineer Intern             | <u>    </u> Environmental Engineers |                                   |
| <u>2</u> Professional Land Surveyors |                                     | <b><u>61</u> TOTAL</b>            |

**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. N/A

**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. N/A          | N/A        | N/A                                  |
| 3. N/A          | N/A        | N/A                                  |

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

N/A



## 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:**

**Deric J. Murphy, PE, LSI**  
**President | Principal in Charge**

**Project Assignment:**

**Professional in Charge of Project**

**Name of Firm with which associated:**

**Quality Engineering & Surveying, LLC**



**Years' experience with this Firm:**

**13 year with QES**

**25 years in total in industry**

**Education: Degree(s)/Year/Specialization:**

**Bachelor degree in Civil Engineering from Louisiana State University-1996**

**Active registration: Year first registered/discipline:**

**Professional Engineer No. 0029602**

**First Registered- 2001**

**Land Survey Intern No.0000427**

**First Registered-1998**


**Other experience and qualifications relevant to the proposed Project:**

Mr. Murphy is the QES principal in charge and serves as president. He is a licensed Civil Engineer and Land Surveyor Intern with 25 years of experience designing, reviewing, surveying, and managing multiple types of projects for both public and private sectors. He works on and provides advisory services for civil design, land development projects, master planning, feasibility studies, due diligence and codes and ordinance research. Mr. Murphy engages in all project phases including conceptual design, cost estimating, final design, construction administration, public outreach, and interaction with relevant governmental agencies.

**Breaux Bridge Manor Drainage Improvements**

QES was selected to complete the studies and design of the Breaux Bridge Manor Drainage Improvement project. The project will remove an existing box culvert that is set at the wrong elevation along Doyle Melancon Road in Breaux Bridge, LA. A larger culvert will replace the existing culvert and will be set at the appropriate elevation to ensure proper conveyance of water in the drainage area.

## TEC Professional Services Questionnaire

| <b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>   |   |
|--|---|
| <b>Name &amp; Title:</b>   |   |
| William Purser, PE<br>Engineering Manager  |   |
| <b>Project Assignment:</b>   |   |
| Project Manager / Engineer   |   |
| <b>Name of Firm with which associated:</b>   |   |
| Quality Engineering & Surveying, LLC   |  |
| <b>Years' experience with this Firm:</b>   |   |
| 9 year with QES  | 25 years in total in industry   |
| <b>Education: Degree(s)/Year/Specialization:</b>   |   |
| Bachelor degree in Civil Engineering from University of Idaho: Ricks College-1994  |   |
| <b>Active registration: Year first registered/discipline:</b>  |   |
| Professional Engineer No. 29357  | First Registered- 2001  |
| <b>Other experience and qualifications relevant to the proposed Project:</b>   |   |
| <p>Mr. Purser has over twenty years of increasing responsibility in Civil Engineering and Public Works projects in Tennessee, Mississippi, Louisiana, Texas, and Alabama. Mr. Purser demonstrates excellent skills in engineering, project design, cost estimation, and working within tight budgets and timelines. As an experienced project manager, he has been responsible for seeing multiple projects through from initial surveys and planning to final bids and completion. Mr. Purser has extensive experience across core civil engineering disciplines of roadway/transportation, drainage, waterline, and site design. He is practiced in civil engineering disciplines such as <b>sewer systems</b>, roadway/transportation, drainage, <b>water line</b> and site design.</p> <p><b>Skinner Drive Drainage Improvements</b><br/>Mr. Purser supervised the engineering department design activities for proposed flood mitigation of a residential subdivision community.</p> <p><b>Breaux Bridge Manor Drainage Improvements</b><br/>Mr. Purser is the Senior Engineer on this project. His role includes overseeing the drainage study and recommendations. QES was selected to complete the studies and design of the Breaux Bridge Manor Drainage Improvement project. A study of 603 acres was completed. The project will remove an existing box culvert that is set at the wrong elevation. A larger culvert will replace the existing culvert and will be set at the appropriate elevation to ensure proper conveyance of water in the drainage area.</p> <p><b>Bellacosa Subdivision, East Baton Rouge Parish</b><br/>Bellacosa Subdivision is a D.R. Horton residential development in East Baton Rouge Parish. Mr. Purser has overseen this project since QES took over after the completion of the first filing. QES designed the grading and infrastructure which includes drainage systems, <b>sanitary sewer systems</b>, and roads. Most of this design was done through master planning and coordination through City of Baton Rouge. This includes working with the City of Baton Rouge Subdivision office, Planning Commission, and Department of Environmental Services.</p> |   |

## TEC Professional Services Questionnaire

| <b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>  |
|---|
| <b>Name &amp; Title:</b>  |
| Mr. Yunxiang Fan, PE<br>Water Resource Engineering Department Manager   |
| <b>Project Assignment:</b>  |
| Sewer System Design and Project Management, Stormwater Management, Drainage Study and System Design, Watershed Study, Riverine Hydraulics, etc.   |
| <b>Name of Firm with which associated:</b>  |
| Quality Engineering & Surveying, LLC.    |
| <b>Years' experience with this Firm:</b>  |
| 1 year with QES - Head of Water resources Engineering Department  |
| <b>Education: Degree(s)/Year/Specialization:</b>  |
| M.S. in Civil Engineering, LSU, Baton Rouge 1997<br>M. Eng. In Environmental Engineering, Hunan University, Changsha, China 1990<br>B. Eng. in Environmental Engineering, Hunan University, Changsha, China 1986  |
| <b>Active registration: Year first registered/discipline:</b>   |
| Professional Engineer No. 29592 (registered in 2001)  |
| <b>Other experience and qualifications relevant to the proposed Project:</b>  |
| <p>20+ years of broad experience, including senior leadership with P&amp;L responsibilities (\$120 million annual turnover at peak), in civil, municipal engineering, land development, WWTP design-build, construction and <b>stormwater management</b> permitting, project management, business development in the US and abroad. Strong cross-functional skills and business acumen with the ability to execute a wide range of tasks and increase revenues and profitability. Effective communication skills in explaining complex civil engineering concepts clearly and understandably to a variety of professional and non-professional audiences. PE licensed in 22 States (IL, AL, AR, FL, MS, LA, MN, MO, MI, NC, OR, CO, TX, PA, NV, KS, VA, OK, OH, IN, WA, and WI).</p> <ul style="list-style-type: none"> <li>Strong leadership and operational management skills, excellence in recruiting, mentoring, team building and developing, resource allocating, scheduling, budgeting, financial reporting.</li> <li>Outstanding communication skills both internally and externally, including oral and documentations in writing.</li> <li>Experience in civil, municipal, land development engineering fields, familiar with County, State and federal procedures, regulations, and ordinances.</li> <li>Project development and execution for water and wastewater treatment plant design-build projects.</li> <li><b>Extensive hydrology and hydraulics knowledge and experience in floodway and floodplain delineation, stormwater management, drainage system design, highway bridge hydraulics study.</b></li> <li>Exceptional science and mathematical abilities to solve abnormal real situations.</li> <li>Excellent grasp of most of the civil design, modeling, and simulation software, such as, Civil 3D, HEC-1 &amp; 2, HEC-RAS &amp; HMS, HEC-18, 20, 23, 25, FEQ; TR-20/TR-55, HY-8, ICPR, XP-SWMM, BASIN, HydroCAD, etc.</li> </ul> |

## **TEC Professional Services Questionnaire**

### **Chappepeela Creek Stormwater Retention Planning Project**

Mr. Fan serves as the Water Resource Engineering Manager for the Chappepeela Drainage Improvement Project. He is responsible for designing the H&H study, as well as evaluating final possible improvements of Chappepeela Creek watershed, including other upstream branches.

### **Livingston Parish Gravity Drainage District 1 Watershed Management**

Mr. Fan serves as the Water Resource Engineering Manager for the Livingston Parish Gravity Drainage District #1 Watershed Management Project. He currently oversees all hydrologic and hydraulic studies of the watershed from design to completion and is responsible for evaluating the completed HEC-HMS model.

### **Black Liquor Wastewater Treatment Plan**


Tr-Tech J&Y Division was selected as a Turn-Key contractor by AV Cell, Inc. to design and install a Black Liquor Wastewater Treatment Plant. Mr. Fan served as the principal engineer responsible for all calculations to raise the recirculation flow to nearly 7000GPM.

### **Zero Liquid Wastewater Treatment Plant Basic Engineering Design**


Mr. Fan was the president and CEO of Tri-Tech Holding, Inc. when Tri-Tech was selected as a primary engineering consultant to design the Zero Liquid Wastewater Treatment Plant for one of SIPCHEM's refinery plant. Mr. Fan was the principal engineer responsible for designing the ZLD system.



## **TEC Professional Services Questionnaire**

| <b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>   |   |
|--|---|
| <b>Name &amp; Title:</b>   |   |
| Yangbin Tong, PE, MASCE  |   |
| <b>Project Assignment:</b>   |   |
| Professional Engineer  |   |
| <b>Name of Firm with which associated:</b>   |   |
| Quality Engineering & Surveying, LLC   |  |
| <b>Years' experience with this Firm:</b>   |   |
| 1 year with QES  | 9 years in total in industry  |
| <b>Education: Degree(s)/Year/Specialization:</b>   |   |
| Master's Degree in Civil Engineering from LSU/ 2013/ Water Resources & Environmental   |   |
| Master's Degree in Engineering from Zhejiang University/ 2008 /Hydrology and Water Resources Engineering   |   |
| Bachelor's Degree in Engineering from Zhejiang University/ 2006 / Hydrology and Water Resources  |   |
| <b>Active registration: Year first registered/discipline:</b>  |   |
| Professional Engineer in Louisiana: 2021 / Civil Engineering   |   |
| <b>Other experience and qualifications relevant to the proposed Project:</b>   |   |
| <p>Mr. Tong has 8 years of experience in civil engineering design and analysis, including Hydrologic and Hydraulic Modeling and Analysis, Stormwater Management, Wastewater Treatment facility design, Flood Mitigation, and Site Development. His past roles cover civil engineering designer, H&amp;H modeler, engineering task coordinator and project manager. He has excellent writing skills in both academic peer-reviewed journal papers and project reports. In addition, he has 2 years of work experience in China focusing on H&amp;H modeling and analysis.</p> <p><b>Chappepeela Creek Stormwater Retention Planning Project</b><br/> QES is awarded by Tangipahoa Parish to perform a comprehensive watershed study for a potential retention pond(s) project. Mr. Tong is the leading engineer to perform Gap Analysis, Data Acquisition, Hydrology and Hydraulics (H&amp;H) Modeling &amp; Analysis, Environment Review and Preliminary Engineering Study.</p> <p><b>City of Denham Springs Stormwater Management Program</b><br/> QES was selected by the City of Denham Springs to develop a Master Drainage Plan based on August 2016 flood inundation and its effects on the City of Denham. Mr. Tong is the leading engineer to perform Gap Analysis, Data Acquisition, H&amp;H Modeling &amp; Analysis, and Preliminary Engineering Study.</p> <p><b>Chennault Airport Stormwater Management Plan</b><br/> CSRS, Inc. was a subconsultant to JESCO, Inc. on the Chennault Airport Stormwater Management Plan. Mr. Tong was the task leader responsible for project coordination, Hydrologic &amp; Hydraulic analysis, project deliverables and reports.</p> <p><b>McHugh Road H&amp;H Analysis</b><br/> The Parish of East Baton Rouge hired CSRS to complete the design work of McHugh Road Improvement as part of the MoveBR program. Mr. Tong was the Project Manager responsible for daily coordination of project progress as well as communication with MOVEBR's Program Management team.</p> |   |


## TEC Professional Services Questionnaire

| <b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>  |   |
|---|---|
| <b>Name &amp; Title:</b>  |   |
| Jacob Murray, EI  |   |
| <b>Project Assignment:</b>  |   |
| Water Engineering Intern  |   |
| <b>Name of Firm with which associated:</b>  |   |
| Quality Engineering & Surveying, LLC  |  |
| <b>Years' experience with this Firm:</b>  |   |
| 1.5 years with QES  | 2 years in total in industry  |
| <b>Education: Degree(s)/Year/Specialization:</b>  |   |
| Clemson University - Bachelor of Environmental Engineering  |   |
| <b>Active registration: Year first registered/discipline:</b>   |   |
| South Carolina Engineering Intern # 21298   |   |
| <b>Other experience and qualifications relevant to the proposed Project:</b>  |   |
| <p><b>Calcasieu Parish Police Jury ARPA Project Reviews</b></p> <p>Quality Engineering &amp; Surveying has been subcontracted by the Calcasieu Parish Police Jury to serve as the engineer subject matter experts for their American Rescue Plan Act (ARPA) grant administration program. Jacob Murrey reviewed water, wastewater, and stormwater projects to determine eligibility under the Final Rule of ARPA.</p>   |   |
| <p><b>Livingston Parish Gravity Drainage District No. 1 Watershed Master Plan</b></p> <p>Quality Engineering &amp; Surveying was contracted by Livingston Parish Gravity Drainage District No. 1 to develop hydrologic and hydraulic models of key watersheds within their jurisdiction, including Gray's Creek, Allen Bayou, and Felder's Bayou. Jacob Murrey developed HEC-RAS one-dimensional and two-dimensional models to analyze the existing drainage patterns within these watersheds and identify potential improvements projects.</p> |   |
| <p><b>Puerto Rico HMGP Phase I Grant Applications</b></p> <p>Quality Engineering &amp; Surveying has been subcontracted by various municipalities throughout Puerto Rico for the development of grant applications through FEMA's Hazard Mitigation Grant Program in order to secure Phase I funding for stormwater management projects. Jacob Murrey has provided support through application drafting, BCA development, hydrologic and hydraulic modeling, and RFI responses in the development of these grants.</p>                          |   |
| <p><b>Scivique Road Drainage Improvement HMGP Grant Application</b></p> <p>Quality Engineering &amp; Surveying was contracted by Livingston Parish Gravity Drainage District No. 1 to perform HMGP grant development services for a drainage improvement project to Scivique Road on Gray's Creek. Jacob Murrey provided hydrologic and hydraulic modeling support in the development of this grant application.</p>  |   |
| <p><b>Beaver Creek Watershed Study and Drainage Plan</b></p> <p>For this drainage plan project, Mr. Murrey completed the existing model of the H&amp;H study, completed the study content synopsis to improve conveyance within the watershed. Also, identified blockages and collected data for both the improvement of the creek and overall drainage within the watershed.</p>   |   |


## TEC Professional Services Questionnaire

| <b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>   |   |
|--|---|
| <b>Name &amp; Title:</b>   |   |
| Vincent Orlando, PE<br>Project Manager   |   |
| <b>Project Assignment:</b>   |   |
| Project Designer   |   |
| <b>Name of Firm with which associated:</b>   |   |
| Quality Engineering & Surveying, LLC.  |  |
| <b>Years' experience with this Firm:</b>   |   |
| 0.5 years with QES   | 7 years in total in industry  |
| <b>Education: Degree(s)/Year/Specialization:</b>   |   |
| Louisiana State University - Bachelor of Civil Engineering<br>University of New Orleans - Master of Engineering Management   |   |
| <b>Active registration: Year first registered/discipline:</b>  |   |
| LA PE.0046350  |   |
| <b>Other experience and qualifications relevant to the proposed Project:</b>   |   |
| <p>Mr. Orlando has just started working at Quality Engineering &amp; Surveying, LLC. He has previously served as Civil Engineer (P.E.), Program Manager at All South Consulting Engineers, LLC where he specialized in FEMA program management.</p> <p><b>Terrebonne Parish School District Hurricane Ida Response</b><br/> Upon joining the All South Consulting Engineers, LLC team in the weeks following Hurricane Ida, Mr. Orlando worked to ensure emergency work was being procured and completed in compliance with FEMA requirements. His background and experience with water and mold remediation was used to provide checks and balances on existing and proposed water damage remediation contracts and invoices. He also worked closely with other team members as well as with the school board to submit all emergency work (category B) project worksheets to FEMA and transition to permanent restorative work (category C-G). Mr. Orlando continues to advise on and draft various RFP's and contract documents for the school district to ensure FEMA compliance and future reimbursement. He is also providing requests for proposal to all school board clients to use in procuring emergency remediation work in preparedness of future storms.</p> <p><b>Lafourche and Saint John the Baptist Parish School Board Hurricane Ida Response</b><br/> Following Hurricane Ida, Mr. Orlando provided a detailed review of all invoices and contract documents for water damage remediation services. He reviewed the invoices and contract documents for FEMA compliance as well as industry standards. Mr. Orlando also provided review of Insurance adjusters audit of category B invoicing in Saint John the Baptist Parish School District.</p> <p><b>North Lafourche Levee District, Saint Bernard Parish Government Hurricane Ida Response</b><br/> Following Hurricane Ida, Mr. Orlando provided a detailed review of all invoices and contract documents for water damage remediation services. He reviewed the invoices and contract documents for FEMA compliance as well as industry standards</p> |   |

## TEC Professional Services Questionnaire

| <b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>  |   |
|---|---|
| <b>Name &amp; Title:</b>  |   |
| Jeff Diamond, PLS   |   |
| <b>Project Assignment:</b>  |   |
| Survey Director   |   |
| <b>Name of Firm with which associated:</b>  |   |
| Quality Engineering & Surveying, LLC  |  |
| <b>Years' experience with this Firm:</b>  |   |
| 2 years with QES  | 17 years in total in industry   |
| <b>Education: Degree(s)/Year/Specialization:</b>  |   |
| Bachelor's in Interdisciplinary Science; Surveying, Geography<br>BS engineering pending (estimated completion 2024)   |   |
| <b>Active registration: Year first registered/discipline:</b>   |   |
| PLS, Louisiana #0005186   |   |
| <b>Other experience and qualifications relevant to the proposed Project:</b>  |   |
| <p>Jeff Diamond, PLS currently serves as Survey Manager and has been with Quality Engineering &amp; Surveying, LLC for 2 years. He has 17 years' experience and before joining QES, Jeff Diamond has served as Sr. Civil Designer; Sr. Party Chief; Supervising Professional and Chief Land Surveyor. Mr. Diamond has expertise and experience in commercial and industrial site development (horizontal and vertical control network, topographic and boundary surveys, as-built survey, geometric design, H&amp;H analysis, Utility placement, regulatory compliance, plan development, construction layout, construction administration, inspections, quality control surveys. He has worked on variety of commercial, residential, municipal, industrial, transportation, and right-of-way projects. With his experience he has produced plats (including but not limited to boundary, topographic, as-built, ALTA/ACSM and right-of-way acquisitions), elevation certificates and quantity calculations.</p> <p><b>Chappapeela Drainage Improvement Project</b><br/>Mr. Diamond serves as Survey Manager for the Chapapeela Drainage Improvement Project. Quality Engineering was selected by the Tangipahoa Parish Government to survey the area, complete detailed hydrologic and hydraulic studies of Chappapeela Creek watershed, including Little Chappapeela Creek and other upstream branches, and evaluate possible drainage improvements including detention and retention ponds.</p> <p><b>Breaux Bridge Manor Drainage Improvement Project</b><br/>Mr. Diamond serves as Survey Manager for the Project. The survey department conducted a H&amp;H study. QES was selected to complete the studies and design of the Breaux Bridge Manor Drainage Improvement project. A study of 603 acres was completed. The project will remove an existing box culvert that is set at the wrong elevation. A larger culvert will replace the existing culvert and will be set at the appropriate elevation to ensure proper conveyance of water in the drainage</p> |   |

## TEC Professional Services Questionnaire

| <b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>  |   |
|---|---|
| <b>Name &amp; Title:</b>  |   |
| Christopher Cook<br>Production Manager  |   |
| <b>Project Assignment:</b>  |   |
| Project Manager / Design  |   |
| <b>Name of Firm with which associated:</b>  |   |
| Quality Engineering & Surveying, LLC  |  |
| <b>Years' experience with this Firm:</b>  |   |
| 2 years with QES<br>26 years total in industry  |   |
| <b>Education: Degree(s)/Year/Specialization:</b>  |   |
| Associates in Applied Sciences from ATI Training Center, Dallas TX-1997   |   |
| <b>Active registration: Year first registered/discipline:</b>   |   |
| N/A   |   |
| <b>Other experience and qualifications relevant to the proposed Project:</b>  |   |
| Mr. Cook has 26 years of experience as a project designer and CAD Technician. He has worked for a variety of firms throughout Texas and Louisiana, gaining new skills and expertise to add to his repertoire. At QES, Mr. Cook is our CAD Production Manager, overseeing a team of designers and technicians. As senior CAD Designer, he leads our techs and designers on the engineering team in creating superior work that is on deadline and in budget. |   |



## 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><b>Water Treatment Plant</b> – Three Train System turn-key project for Fairmont Hotels &amp; Resorts in Jasper National Park, Alberta, Canada</p> <p>Owner's Information:</p> <p>Fairmont Jasper Park Lodge<br/>1 Old Lodge Road<br/>Jasper, Alberta<br/>Canada</p> <p>[NOTE: Mr. Fan completed this work at previous firm]</p> | <p>Tri-Tech J&amp;Y Division (J&amp;Y) was selected by Hotels Oxford Group as a turn-key engineering contractor to design and install a water treatment plant at Fairmont Hotels &amp; Resorts using three train UF membrane system using Dow SFD 2860 Ultrafiltration modules. The water treatment plant produces 990 cubic meter per day of drinking water for the entire Fairmont Hotels &amp; Resorts at Jasper National Park by the beautiful Lake Louis. J&amp;Y guaranteed the produced water meets the updated Drinking Water Standards of Alberta Province.</p> <div data-bbox="623 751 1487 1394" data-label="Image"> </div> <p><b>KEY TASKS: Water Treatment System</b></p> |   |
| Completion Date (Actual or estimated):   | Estimated Cost:  |   |
|  | Entire Project:  | Work for which Firm was Responsible:  |
| Completed on July, 2012  | US\$ 724,342.50  | <p>US\$ 724,342.50</p> <p>Mr. Yunxiang Fan, PE was the Principal Engineer</p> |


## **TEC Professional Services Questionnaire**

### **PROJECT NO. 2**

| <b>Project Name, Location and Owner's contact information:</b>  | <b>Nature of Firm's Responsibility:</b>  |   |
|---|--|---|
| <b>Seawater Desalination Unit</b><br><br>Doha, Qatar.<br><br>Qatar Petrochemical (QAPCO)<br><br><b>[NOTE: Mr. Fan completed this work at previous firm]</b> | <p>Qatar has no natural waterways and scarcity in fresh water, so almost all potable water and industrial processing water is de-salted seawater.</p> <p>Mr. Fan led the team to design and deploy a multiple effect thermocompression (MED-TC) desalination unit for the utility plant at Mesaieed Industrial City. Project included design, engineering, fabrication, commissioning, performance testing and on-site training for the 240 cu. meter per hour capacity unit.</p> <p><b>KEY TASKS: Drinking Water Treatment and Delivery</b></p> |   |
| <b>Completion Date (Actual or estimated):</b>   | <b>Estimated Cost:</b>   |   |
|   | <b>Entire Project:</b>   | <b>Work for which Firm was Responsible:</b> |
| Nov 2012  | \$8.3 million  | \$8.3 million                               |


## TEC Professional Services Questionnaire

### PROJECT NO. 3


| PROJECT NO. 3   |  |  |                 |                                      |                   |             |
|---|--|--|-----------------|--------------------------------------|-------------------|-------------|
| Project Name, Location and Owner's contact information:   | Nature of Firm's Responsibility:   |  |                 |                                      |                   |             |
| <p><b>Bellacosa Subdivison</b></p> <p>Baton Rouge, LA<br/>East Baton Rouge Parish</p> <p>Jake Lambert &amp; Adam Kurz<br/>D.R. Horton<br/>(225) 664 - 1240<br/>jdlambert@jrhorton.com</p> | <p>Bellacosa is a residential development containing 425 lots. The development is designed into four filings. QES designed the grading and infrastructure which includes drainage systems, <b>sanitary sewer systems</b>, and roads. Most of this design was done through master planning and coordination through City of Baton Rouge. This included working with the City of Baton Rouge Subdivision office, Planning Commission, and Department of Environmental Services.</p> <p><b>KEY TASKS: Sanitary Sewer Systems</b></p> <div style="text-align: center;">  </div> |  |                 |                                      |                   |             |
| <p><b>Completion Date (Actual or estimated):</b></p>  | <p style="text-align: center;"><b>Estimated Cost:</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #d9e1f2;"> <th style="width: 50%; padding: 5px;">Entire Project:</th> <th style="width: 50%; padding: 5px;">Work for which Firm was Responsible:</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">\$1,242,000 (fee)</td> <td style="padding: 5px;">\$1,242,000</td> </tr> </tbody> </table>  |  | Entire Project: | Work for which Firm was Responsible: | \$1,242,000 (fee) | \$1,242,000 |
| Entire Project:   | Work for which Firm was Responsible:   |  |                 |                                      |                   |             |
| \$1,242,000 (fee)   | \$1,242,000  |  |                 |                                      |                   |             |
| July 2020   |  |  |                 |                                      |                   |             |

## TEC Professional Services Questionnaire

### PROJECT NO. 4



| Project Name, Location and Owner's contact information:  | Nature of Firm's Responsibility  |                                      |
|--|--|--------------------------------------|
| <p><b>Cypress Reserve Subdivision</b></p> <p>Ponchatoula, LA<br/>Tangipahoa Parish</p> <p>Jake Lambert &amp; Adam Kurz<br/>D.R. Horton<br/>(225) 664 - 1240<br/>jdlambert@jrhorton.com</p> | <p>Cypress Reserve is a 268 acre single family residential community in Ponchatoula, LA. It is located off of LA Hwy 22 and LA Hwy 445. The design of this 671 home community embraced the challenge of working with wetlands by making them a central theme and highlight of the community. Seventy acres of open space and 27 acres of ponds are strung together throughout the site using the preserved wetlands as the backbone of the design creating recreational space in resident's back yards. This multi-disciplinary approach to design allows a strong identity and community feeling to thrive throughout the development. We designed the <b>drainage, sewer and freshwater systems.</b></p> <div style="text-align: center;">  </div> <p><b>KEY TASKS: Fresh Water, Drainage, Sewer</b></p> |                                      |
| Completion Date (Actual or estimated)  | Estimated Cost:  |                                      |
|  | Entire Project:  | Work for which Firm was Responsible: |
| April 2021   | \$1,336,000 (fee)  | \$1,336,000                          |

## TEC Professional Services Questionnaire

| PROJECT NO. 5  |  |   |
|--|--|---|
| Project Name, Location and Owner's contact information:  | Nature of Firm's Responsibility:   |   |
| <p><b>Zero Liquid Wastewater Treatment Plant</b> – Basic Engineering Design</p> <p><b>Owner's Address:</b><br/>           Mr. Abdullah Saadoon, CEO<br/>           SIPCHEM – Saudi International<br/>           Petrochemical Company<br/>           Khobar, Saudi Arabia</p> <p><b>[NOTE: Mr. Fan completed this work at previous firm]</b></p> | <p>Mr. Fan's Tri-Tech J&amp;Y Division was selected as a primary engineering consultant by SIPCHEM to design the Zero Liquid Wastewater Treatment Plant for one of SIPCHEM's refinery plant.</p> <p>The ZLD System will consist of the following:</p> <ul style="list-style-type: none"> <li>• Pretreatment System               <ul style="list-style-type: none"> <li>○ Oil Removal System</li> <li>○ Flocculation/Coagulation Filtration</li> <li>○ Activated Filtration</li> <li>○ Ultra-filtration</li> </ul> </li> <li>• Reverse Osmosis System</li> <li>• Mechanical Vapor Compression (MVC) Systems</li> </ul> <p style="text-align: right;">Saudi International Petrochemical Company</p> <div style="text-align: center;">  </div> <p><b>Key Tasks:</b> Utility water</p> |   |
| Completion Date (Actual or estimated):   | Estimated Cost:  |   |
|  | Entire Project:  | Work for which Firm was Responsible:                            |
| 2013   | \$1,000,000 (fee)  | \$1,000,000<br><br>Mr. Fan was chief engineer for this project. |

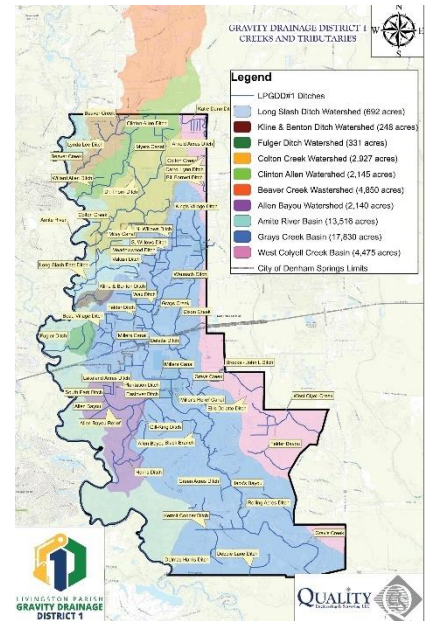


## TEC Professional Services Questionnaire




| PROJECT NO. 6   |   |                                      |
|---|---|--------------------------------------|
| Project Name, Location and Owner's contact  | Nature of Firm's Responsibility:  |                                      |
| <p><b>Keystone of Galvez</b></p> <p>Galvez, LA</p> <p>Kevin Nguyen<br/>Keystone of Galvez, LLC<br/>(225) 698-1600</p> | <p>Keystone of Galvez is a residential subdivision located in the northern portion of Ascension Parish with a total of 932 lots. This project includes the design and construction of 7 miles of asphalt roadway. It included horizontal and vertical alignments, paving design, storm water detention facilities, <b>sanitary sewer pump stations</b>, grading, erosion control plan, and storm water pollution prevention plan.</p> <div style="display: flex; align-items: center;">  <div style="width: 55%;"> <p>The design and construction of a bridge on Timberstone Drive for Henderson Bayou was also included in the initial phase of the subdivision. QES designed several areas within the residential subdivision for residents to enjoy, such as walking trails and parks to play along the way.</p>  </div> </div> <p><b>Key Tasks:</b> Sanitary sewer pump stations, storm water pollution prevention plan.</p> |                                      |
| Completion Date (Actual or estimated):  | Estimated Cost:   |                                      |
|   | Entire Project:   | Work for which Firm was Responsible: |
| April 2021  | \$671,000 (fee)   | \$671,000                            |

## TEC Professional Services Questionnaire

| <b>PROJECT NO. 7</b>  |  |   |
|---|--|---|
| <b>Project Name, Location and Owner's contact information:</b>  | <b>Nature of Firm's Responsibility:</b>  |   |
| <p><b>Livingston Parish Gravity Drainage District #1 Watershed Program Management</b></p> <p>Owner's Information:</p> <p>Wesley Kinnebrew<br/>Livingston Parish Gravity Drainage District #1-District Manager<br/>8098 B Florida Blvd<br/>Denham Springs, LA 70726<br/>(225) 664.5827</p> | <p>The Louisiana Watershed Initiative (LWI) has been established to provide funding that will support planning, watershed modeling, data collection, and flood-risk reduction projects across Louisiana. Quality Engineering and Surveying, LLC (QES) was selected to provide necessary support through surveying and engineering services that would improve the drainage infrastructure throughout Livingston Parish Gravity Drainage District #1 (LPGDD1). The Louisiana Watershed Initiative selected 20 LPGDD1 pre-applications to advance and develop into full applications. This provided LPGDD1 and QES with an unprecedented opportunity to improve and accelerate the drainage improvements that are urgently needed throughout this district. The projects in this development include watershed studies, drainage analysis and improvements, channel expansion, detention/retention ponds, bridge upgrades and replacements, and underground drainage.</p> <p>The areas involved in this project:</p> <ul style="list-style-type: none"> <li>- Long Slash Branch</li> <li>- Allen Bayou</li> <li>- Beaver Creek</li> <li>- Clinton Allen Drainage Ditch</li> <li>- Gray's Creek</li> <li>- Dixon Creek</li> </ul> <p><b>KEY TASKS: - Program Management, Civil Design, Community Rating System, Watershed Management, H&amp;H Study &amp; Analysis, GIS</b></p> |   |
| <p><b>Completion Date (Actual or estimated):</b></p> <p>Continuous ongoing project</p>  | <b>Estimated Cost:</b>   |   |
|   | <b>Entire Project:</b>   | <b>Work for which Firm was Responsible:</b> |
|   | \$3.5M   | \$3.5M                                      |



## TEC Professional Services Questionnaire

| <b>PROJECT NO. 8</b>   |  |   |
|--|--|---|
| <b>Project Name, Location and Owner's contact information:</b>   | <b>Nature of Firm's Responsibility:</b>  |   |
| <p><b>Whispering Springs Subdivision</b></p> <p>Walker, LA<br/>Livingston Parish</p> <p>Owner's Information:</p> <p>Jake Lambert &amp; Adam Kurz<br/>D.R. Horton<br/>(225) 664 - 1240<br/>jdlambert@jrhorton.com</p> | <p>Whispering Springs is a residential development of 976 lots. The development, in nine filings, lies alongside West Colyell and Beaver Creeks, which run through the development. QES designed the infrastructure, including <b>drainage systems, sanitary sewer systems</b>, utility systems such as <b>water and gas</b>, and roads. Most of this design was done through master planning and</p> <div style="display: flex; justify-content: space-around; align-items: center;">    </div> <p>coordination through the various districts that govern the area. This includes working with Livingston Parish Sewer District #1 &amp; #2 and Gravity Drainage District #2. Currently, infrastructure plans for later filings are currently underway or under review by the respective entities, and earthwork grading for those filings is taking place for the proposed development as well.</p> <p><b>KEY TASKS: Water, Gas, Drainage Systems, Sanitary Sewer Systems</b></p> |   |
| <b>Completion Date (Actual or estimated):</b>  | <b>Estimated Cost:</b>   |   |
|  | <b>Entire Project:</b>   | <b>Work for which Firm was Responsible:</b> |
| July 2022  | \$600,000 (fee)  | \$600,000                                   |

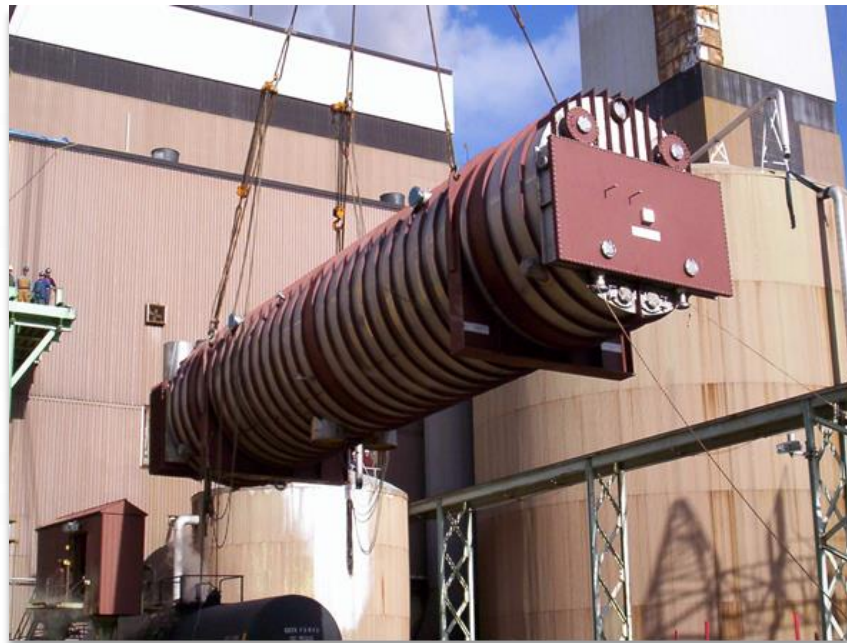
# **TEC Professional Services Questionnaire**

## PROJECT NO. 9

| Project Name, Location and Owner's contact information:   | Nature of Firm's Responsibility:  |                                      |
|---|---|--------------------------------------|
| <b>Chappepeela Creek Stormwater Retention Planning Project</b><br><br>Owner's Information:<br><br>Wesley Kinnebrew<br>Livingston Parish Gravity Drainage District<br>#1-District Manager<br>8098 B Florida Blvd<br>Denham Springs, LA 70726<br>(225) 664.5827 | Quality Engineering was selected by the Tangipahoa Parish Government to survey the area, complete detailed hydrologic and hydraulic studies of Chappepeela Creek watershed, including Little Chappepeela Creek and other upstream branches, and evaluate possible drainage improvements including detention and retention ponds.<br><br>The scope of work of this proposal includes: <ol style="list-style-type: none"> <li>1. Review of the available data and stormwater information and river gauge information in the Chappepeela Watershed.</li> <li>2. Assessment of RL-SRL data from Parish flood information.</li> <li>3. Retention pond(s) site evaluation, and property title search.</li> <li>4. Project site selection and environmental reviews.</li> <li>5. Hydrology and Hydraulics Studies – 2-D modeling</li> <li>6. Project recommendations, cost estimates, and public input.</li> </ol><br><b>KEY TASKS: Topographic Survey, Civil Design, Drainage Improvement, HMGP, H&amp;H Study &amp; Analysis</b> |                                      |
| Completion Date (Actual or estimated):  | Estimated Cost:   |                                      |
|   | Entire Project:   | Work for which Firm was Responsible: |
| March 2023 (Est.)   | \$119,584   | \$119,584                            |



## TEC Professional Services Questionnaire

| PROJECT NO. 10  |  |  |
|---|--|--|
| Project Name, Location and Owner's contact information:   | Nature of Firm's Responsibility:   |  |
| <p><b>Black Liquor Wastewater Treatment Plant</b></p> <p><b>Owner's Address:</b></p> <p>AV Cell Inc.<br/>175 Mill Road<br/>Atholville, New Brunswick E3N 4S7</p> <p><b>[NOTE: Mr. Fan completed this work at previous firm]</b></p> | <p>Tr-Tech J&amp;Y Division was selected as a Turn-Key contractor by AV Cell, Inc. to design and install a Black Liquor Wastewater Treatment Plant. The basic requirements are to provide sufficient evaporator capacity to permit the Mill to produce at least 380 air dry tons per day of pulp. At this pulp production, the evaporator system will process 655 t/d of sulfite liquor dry solids in concentrating a 14% feed to a 60% product. To achieve these objectives and meet the requirements, Tri-Tech proposes to furnish one new evaporator body for installation in place of the existing Stage C and D body. The recirculation flow in the new body will be approximately doubled to about 7000 GPM to provide about 3000 GPM in the 12.75 ft nearest the hot end, 2000 GPM in the next 12.75 ft, and 2000 GPM in the remaining 25.5 ft.</p> <div style="text-align: center;">  </div> <p><b>KEY TASKS: Wastewater Treatment System</b></p> |  |
| Completion Date (Actual or estimated):  | Estimated Cost:  |  |
|   | Entire Project:  | Work for which Firm was Responsible:   |
| 2013  | US\$ 2,987,828   | <p>US\$ 2,987,828</p> <p>Mr. Yunxiang Fan, PE was the Principal Engineer</p> |



**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        | N/A                    |
| 2. N/A    | N/A        | N/A                    |
| 3. N/A    | N/A        | N/A                    |
| 4. N/A    | N/A        | N/A                    |

## TEC Professional Services Questionnaire

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

Fresh water and wastewater engineering are specialties of ours. The two disciplines are extremely similar, and residential developers rely on the know-how of our engineers for their understanding of hydraulics, use of force main, gathering and distribution systems as well as water treatment and discharge.

We often design and manage both the wastewater and freshwater systems for the large residential developments we design.

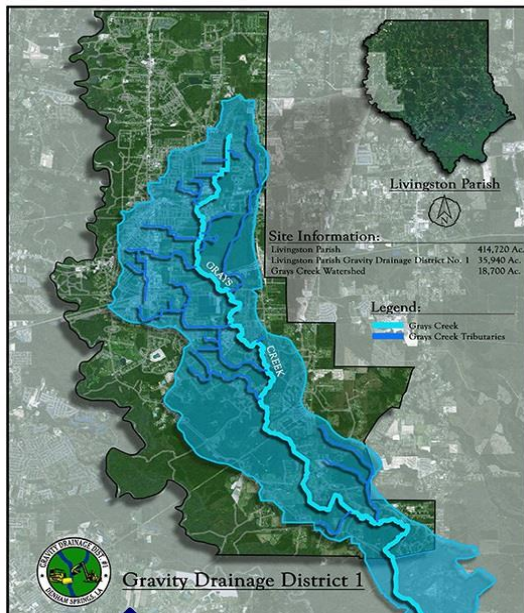
Our lead water engineers, Mr. Fan and Mr. Tong have unique experience in both domestic and international water systems. They joined QES to help deliver to our customers the highest level of water system design.

Combining our excellence in residential sewer and water design with our team's knowledge of extremely diverse water systems allows us to bring to Jefferson Parish the ability to solve the water issues you are likely to face.

As a note; our knowledge of data collection and analysis, including hydraulic and hydrologic data, led to recognition as an award-winning engineering firm.



QES designed and constructed the  
saferoom for three pump stations  
in St. Mary Parish



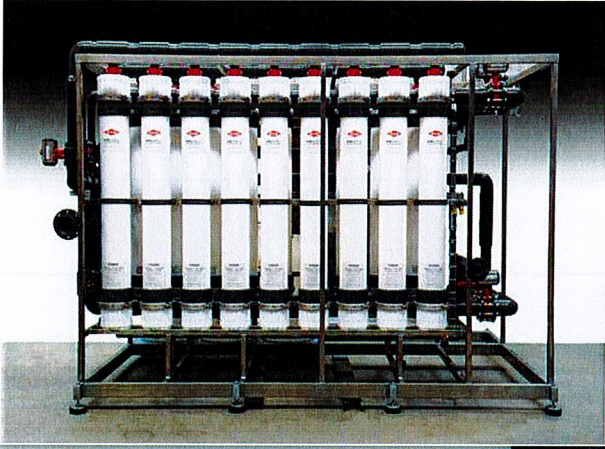
Award Winning Master Drainage  
Planning for  
Livingston Parish

QES was recently recognized by the American Council of Engineering Companies with their Excellence in Engineering Award for our innovative master drainage plan for the Denham Springs watersheds.

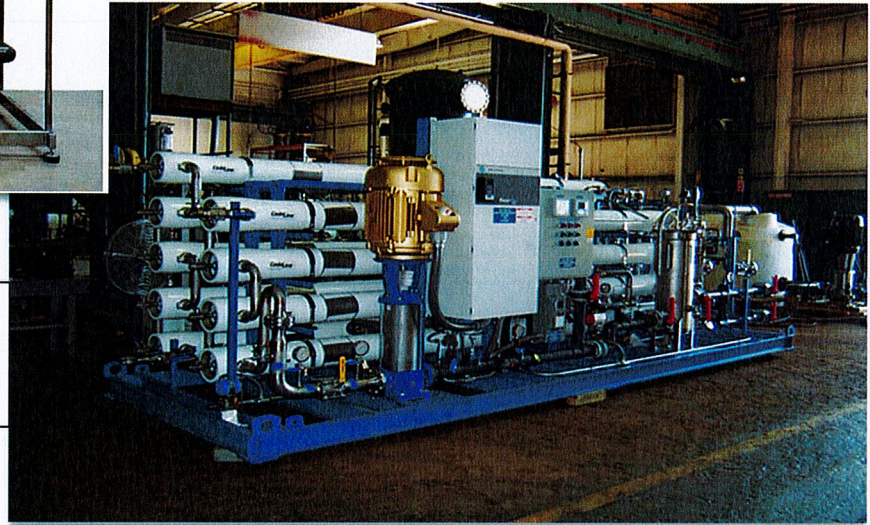


Our master plan – based on thousands of survey measurements, stream profiling, identification of flow restrictions and comprehensive H&H analysis – included a complete list of recommended engineering and design improvements and projected results and costs.

## TEC Professional Services Questionnaire



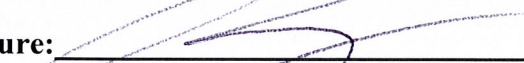
Desalination and Zero emission purification systems designed by QES's lead water engineer



QES's water engineers have produced solutions for clients ranging from drainage studies and improvements to designing treatment and sewer systems to deliver water to thousands of residents.

We stand ready to serve Jefferson Parish.

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

Signature:  Print Name: Deric Murphy, PE, LSI

Title: President Date: February 10, 2023